

320 3rd Ave. NE, Suite 200 Issaquah, WA 98027

> T: 425 . 427.0061 F: 425 . 427.0067

# SUBSURFACE INVESTIGATION AND SOIL VAPOR EXTRACTION FEASIBILITY PILOT TEST

## FORMER CITY HAND LAUNDRY 1002 4<sup>TH</sup> STREET BREMERTON, WASHINGTON

Submitted by: Farallon Consulting, L.L.C. 320 3<sup>rd</sup> Avenue Northeast Issaquah, Washington 98027

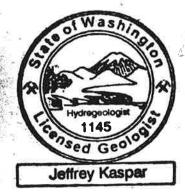
Farallon PN: 603-001

For: Stuart and Patricia Milbrad 1270 McGonagle Road Selah, Washington 98942

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Prepared by

Jeffrey Kaspar, L.G., L.H.G. Senior Project Manager



Reviewed by:

Gerald J. Portele Principal



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## EXECUTIVE SUMMARY

Farallon Consulting, L.L.C. (Farallon) has prepared this report to document the results of the subsurface investigation and soil vapor extraction (SVE) feasibility pilot test conducted at the former City Hand Laundry business, which is currently the Land Title Building parking lot, located in Bremerton, Washington (herein referred to as the Site). Previous subsurface investigations by Farallon and others have determined that releases of tetrachloroethene (PCE) to soil have occurred in the northern and southern portions of the eastern parking area at the Site, where the former City Hand Laundry facility was located. The purpose of the subsurface investigation was to assess the vertical and lateral extent of concentrations of PCE in the soil on the Site, and to assess whether concentrations of PCE are present in groundwater. The limited focused feasibility study was conducted to evaluate the technical feasibility of using SVE for cleanup of PCE identified in the vadose zone soils at the Site.

The subsurface investigation included installation of three groundwater monitoring wells (MW-1 through MW-3) in the north-central, southeast, and south-central portions of the Site to assess the lateral and vertical distribution of PCE in soil, and to assess whether the releases of PCE had affected groundwater. Five vapor extraction wells (VE-1 through VE-5) were installed in the northern and southeastern portions of the Site near the suspected source areas of the PCE releases. These vapor extraction wells were installed to facilitate the pilot testing of the SVE technology. Soil samples were collected from the monitoring well and vapor extraction well borings and were analyzed for halogenated volatile organic compounds. Groundwater monitoring and sampling was performed in July 2000 and in April 2003. The SVE pilot test was performed at the Site in July 2000.

The results of the subsurface investigation indicated that the PCE releases in the north-central and southeastern areas of the Site extend to at least 45.5 feet below the ground surface (bgs) and have reached groundwater. The concentrations of PCE decreased significantly with depth in all monitoring well and vapor extraction well borings, falling below 0.5 milligrams per kilogram (mg/kg) between 16 and 45.5 feet bgs. The Washington State Model Toxics Control Act (MTCA) Method A soil cleanup level of 0.05 mg/kg was used as the preliminary screening level for evaluation of the soil analytical results. Concentrations of PCE exceeded this screening level from depths of 2.5 feet to 45.5 feet bgs at all three monitoring well boring locations, and from depths of 5 feet to 16.5 feet in the vapor extraction well borings.

Groundwater was encountered in the monitoring well borings at depths ranging from 47 to 49.5 feet bgs. The groundwater analytical results for both July 2000 and April 2003 confirmed the presence of PCE in all three monitoring wells. Concentrations of PCE ranged from 560 to 1,300 micrograms per liter ( $\mu$ g/l) for the July 2000 sampling event, and from 1,600 to 3,700  $\mu$ g/l for the April 2003 sampling event. The MTCA Method A groundwater cleanup level 5.0  $\mu$ g/l for PCE was used as the preliminary screening level for evaluation of the groundwater analytical results. The concentrations of PCE in groundwater have increased from July 2000 to April 2003.



The results of the feasibility pilot testing indicate that SVE would be an effective remedial technology for treating concentrations of PCE in soil underlying the Site. The estimated radius of influence for the SVE pilot tests ranged from approximately 40 to 63 feet from the extraction point(s). Sufficient information is available to support the design of an SVE system to remediate the concentrations of PCE in the vadose zone. The groundwater analytical data indicate that technically feasible remedial alternatives for groundwater also will need to be evaluated.

The distribution of the PCE releases in soil at the Site is characterized sufficiently to proceed with developing a cleanup action plan. The remaining data gap with respect to characterization of the PCE releases in the vadose zone is whether concentrations of PCE extend off of the Site. There also are data gaps in the characterization of the distribution of the PCE releases in groundwater. All three monitoring wells contained concentrations of PCE above the preliminary screening level of 5.0  $\mu$ g/l; therefore, the up-gradient and down-gradient limits of the PCE releases in groundwater require further characterization prior to developing a cleanup action plan. Further, the vertical distribution of the PCE releases in groundwater requires additional characterization to assess the depth that future cleanup actions will target. Remediation of soil and groundwater will be necessary to meet the requirements for issuance of a No Further Action determination from the Washington State Department of Ecology under MTCA.

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## **1.0 INTRODUCTION**

Farallon Consulting, L.L.C. (Farallon) has prepared this report to document the results of the subsurface investigation and soil vapor extraction (SVE) feasibility pilot test conducted at the former City Hand Laundry business, which is currently the Land Title Building parking lot, located in Bremerton, Washington (herein referred to as the Site). The portion of the Site that is the focus of the work completed is the location of the former City Hand Laundry dry cleaning facility, which includes the parking area on the eastern portion of the Site. The subsurface investigation activities included collection of soil and groundwater samples for laboratory analysis, completion of an SVE pilot test, and analysis of the technical feasibility of implementing the SVE technology for Site remediation. The purpose of the subsurface investigation was to continue the assessment of the vertical and lateral distribution of concentrations of tetrachloroethene (PCE) in soil at the Site, and to assess whether concentrations of PCE are present in groundwater. The limited focused feasibility study was conducted to evaluate the technical feasibility of using SVE for cleanup of the PCE identified in the vadose zone soils at the Site. The scope of work was completed/between July 2000 and April 2003 in accordance with the proposals prepared by Farallon dated December 6, 1999, and December 5, 2002. The scope of work was completed.

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#### 2.0 SITE BACKGROUND

The Site, located at 1002 4<sup>th</sup> Street in Bremerton, Washington (Figure 1), is currently an asphaltpaved parking lot for the Land Title Building located on the east side of Warren Avenue (Figure 2). The Site includes two parking areas, eastern and western, which are divided by a planter strip located in the central portion of the Site. An underground electric line that supplies power to the lighting system in the parking area is located beneath the planter strip divider.

The properties surrounding the Site include the following: residences to the west; a concretepaved alley, residences, and a church to the north; Warren Avenue and the Land Title Building to the east; and 4<sup>th</sup> Street, a church, and a parking lot to the south. The general topography of the area near the Site slopes to the east, toward the Land Title Building and Puget Sound beyond. The topography of the Site slopes toward the north to an existing catch basin in the northeast quadrant of the eastern parking area.

The Site was occupied by a dry cleaning establishment from approximately 1940 to 1985. Background information provided to Farallon included a schematic site plan showing the approximate location of a Stoddard solvent dry cleaning machine, two locations for PCE-based dry cleaning machines, a dry cleaning machine sump and associated drain lines, a heating oil tank for a former boiler, and two former underground storage tanks (USTs) that were used for storage of gasoline, and later, diesel fuel, for City Hand Laundry vehicle use. All former site improvements reportedly have been removed. The historic site plan information was used to select soil boring locations for investigations conducted by SECOR International Incorporated (SECOR) in May 1998, and by Farallon in September 1999.

A limited site investigation report entitled Land Title Building Site Investigation, dated June 12, 1998, was completed by SECOR. The limited site investigation included the collection of soil vapor samples from depths of approximately 5 feet below ground surface (bgs) at 16 soil vapor sample locations (borings SV-1 through SV-16), and soil matrix samples from 8 to 9 feet bgs from four borings (borings SV-2, SV-7, SV-12, and SV-16; Figure 3). PCE concentrations in the soil vapor samples ranged from 5.7 to 1,240 parts per million volume (ppmv). PCE concentrations in the soil matrix samples ranged from 0.27 to 0.68 milligrams per kilogram (mg/kg). The limited Site investigation also included analyses of benzene, toluene, ethylbenzene, and xylenes (BTEX) due to the presence of the former Stoddard solvent dry cleaning machine and the USTs. The BTEX concentrations reported for these samples were near or below the laboratory method reporting limits in the vicinity of the Stoddard solvent dry cleaning machine, and also very low near the former UST locations. The soil vapor sample results suggested that two potential source areas of PCE releases were present on the Site, including the following locations:

- The vicinity of the north end of the former laundry machine sump and drains (former Site features 4 and 5, Figure 2); and
- The southeast portion of the Site near the location of the dry cleaning machine that operated from 1961 to 1972 (former Site feature 1, Figure 2).



Based on the results of the limited site investigation, Farallon subsequently conducted a Phase II Subsurface Investigation (Phase II) in September 1999. The purpose of this investigation was to provide additional characterization data on the distribution of the chlorinated solvent, PCE, as well as its potential degradation products trichloroethene (TCE); cis-1,2-dichloroethene (DCE); 1,1-DCE; trans-1,2-DCE; and vinyl chloride. Supplemental analyses were not conducted to further assess the presence of petroleum hydrocarbons in the subsurface soil due to the results of the June 12, 1998, *Land Title Building Site Investigation*. The Phase II included drilling 12 soil borings (GP-1 to GP-12) to depths of up to 34 feet bgs, and collecting of 37 soil samples for laboratory analysis.

The results of the Phase II indicated that concentrations of PCE are widespread in the soil at the Site and may extend to groundwater, which is present at a depth of 40 to 50 bgs at the Site. All 37 soil samples analyzed contained concentrations of PCE above the laboratory practical quantitation limit (PQL) of 0.05 mg/kg, and 14 of the 37 soil samples contained concentrations of TCE above the PQL of 0.05 mg/kg. The highest concentration of PCE in soil was 7,200 mg/kg in the sample collected from 6 feet bgs at boring GP-1 in the northwest corner of the eastern parking area.

The data collected during the Phase I and II investigations were not sufficient to delineate the vertical distribution of PCE in the soil, or to determine if groundwater beneath the Site contained detectable concentrations of PCE. Therefore, Farallon proposed a scope of work that included additional soil sampling to assess the vertical distribution of PCE, to assess whether the PCE releases had reached groundwater beneath the Site, and to assess whether SVE was a technically feasible remedial alternative for treatment of the vadose zone soil affected by the releases of PCE. SVE was selected for evaluation because of its acceptance by the Washington State Department of Ecology (Ecology), its proven success in remediating volatile organic compounds, and the extensive thickness of the vadose zone soil affected by releases of PCE at the Site.



## 3.0 SCOPE OF WORK

The scope of work for the subsurface investigation program included the following elements:

- Installation of three groundwater monitoring wells (MW-1 through MW-3) in the north-central, southeast and south-central portions of the Site (Figure 2);
- Installation of five vapor extraction wells (VE-1 through VE-5) in the northern and southeastern source areas identified in the Phase II for pilot testing of SVE as a potential cleanup alternative (Figure 4);
- Collection of soil samples for lithologic description and possible laboratory analysis;
- Submittal of selected soil samples for laboratory analysis of PCE and associated degradation compounds using U.S. Environmental Protection Agency (EPA) Method 8260B;
- Measurement of groundwater levels and collection of /groundwater samples from groundwater monitoring wells MW-1 through MW-3 on both July 19, 2000, and April 25, 2003;
- Submittal of groundwater samples for laboratory analysis of PCE and associated degradation compounds using EPA Method 8260B;
- Performance of SVE pilot testing at select locations to evaluate the technical feasibility of using SVE for Site cleanup; and
- Preparation of this report to document the results of the subsurface investigation activities and SVE pilot test.

The initial field sampling and pilot testing were conducted between July 7 and August 19, 2000, under the supervision of a Farallon field scientist. A second groundwater monitoring and sampling event was conducted on April 25, 2003. Prior to starting the fieldwork in July 2000, a private utility location survey was conducted by Applied Professional Services, Incorporated, of Issaquah, Washington, to locate on-site utilities. Eight soil borings were subsequently advanced by Cascade Drilling, Inc., of Bothell, Washington, using hollow-stem auger drilling methods. Farallon selected the boring locations to further assess the on-site distribution of PCE in soil, to assess the potential for PCE in groundwater, and to facilitate evaluation of SVE in the suspected source areas of the PCE releases. The eight soil borings included groundwater monitoring wells MW-1 through MW-3 and vapor extraction wells VE-1 through VE-5. The approximate locations of the borings are shown on Figure 4.

Farallon collected soil samples at 2.5- to 5-foot sample intervals at each boring to screen for evidence of contamination, and to generate a lithologic description of subsurface soil conditions. The soil samples were collected in accordance with the American Society for Testing and Materials and EPA standard protocols. A Farallon scientist documented the soil lithology in accordance with the Unified Soil Classification System. The soil samples were screened in the field for the presence of volatile organic vapors using a photoionization detector (PID) and were



examined for obvious signs of contamination, including visible discoloration, sheens, and odors. The detailed lithologic descriptions and PID readings for each sample interval are presented in the soil boring logs in Appendix A.

The soil samples collected for potential laboratory analysis were transferred directly from the split-spoon sampling device into a laboratory-prepared sample container using a clean stainless steel spoon. All non-dedicated sampling equipment and supplies were decontaminated between uses. The labeled sample containers were completely filled to preclude the loss of volatile constituents to headspace, and were immediately sealed with Teflon-lined screw caps and placed on ice in a cooler pending delivery to OnSite Environmental, Inc., of Redmond, Washington, for laboratory analysis. Chain-of-custody procedures were followed during transport of the samples from the Site to the laboratory. Based on field observations and PID readings, Farallon selected 19 soil samples for laboratory analysis of halogenated volatile organic compounds (HVOCs) by EPA Method 8260B. Analyses for petroleum hydrocarbon constituents were not performed during this subsurface investigation.

Farallon installed groundwater monitoring wells MW-1, MW-2, and MW-3 (Figure 4) to evaluate groundwater conditions in proximity to the suspected source areas (Figure 2), and to obtain information pertaining to the groundwater gradient and flow direction. The groundwater wells were installed to depths up to 55 feet bgs, and were constructed in accordance with Chapter 173-160 of the Washington Administrative Code (WAC 173-160) guidelines. The wells consisted of 2-inch diameter polyvinyl chloride (PVC) casing with flush-mounted monuments. The well screen intervals in the monitoring wells extended from approximately 45 to 55 feet bgs, and were constructed with 0.020-inch slotted PVC. Detailed logs for the monitoring well construction are included in Appendix A.

The groundwater monitoring wells were developed using a surge block and bailer following installation, and the top of the well casings were surveyed with respect to an arbitrary datum of 100 feet using differential leveling techniques. The groundwater levels in the monitoring wells were subsequently measured in July 2000 and April 2003 to assess the approximate direction of groundwater flow and the hydraulic gradient. The groundwater level in each monitoring well was measured from the surveyed reference point on the top of the well casing using an electronic water level measurement instrument. Prior to measurement, the water level was allowed to equilibrate to atmospheric conditions for a minimum period of 15 minutes after the well was opened. Each monitoring well was then purged of 3 to 5 saturated well casing volumes of water using a disposable plastic bailer. Water quality parameters were collected during purging to assess basic groundwater geochemistry, and to determine when groundwater that was representative of the surrounding formation had entered the monitoring well, as indicated by stabilization of the water quality parameters. The water quality parameters measured included pH, temperature, specific conductance, oxidation-reduction potential (ORP), turbidity, and dissolved-oxygen content.

Following purging, the groundwater samples were collected by decanting the groundwater from a clean plastic disposable bailer directly into laboratory-prepared containers. The groundwater samples were then transported under chain-of-custody protocols to OnSite Environmental, Inc., for analysis of HVOCs using EPA Method 8260B.



From July 5 to July 7, 2000, vapor extraction wells VE-1 through VE-5 (Figure 4) were installed on the Site near the source areas of PCE identified during previous investigations (Figure 2). The vapor extraction wells were installed to depths ranging from 16.8 to 21.5 feet bgs, and consisted of 2-inch diameter PVC casing with 10 feet of 0.020-inch slotted PVC well screen and flush-mounted steel monuments. Detailed logs of the vapor extraction well construction are included in Appendix A.

SVE pilot tests were subsequently performed at vapor extraction wells VE-1, VE-2, and VE-3 (Figure 4). The vapor extraction wells not used for pilot testing were used as observation points to assess the approximate radius of influence observed during each test. A vacuum of 16 to 17 inches of water (IOW) was applied during the SVE pilot tests performed at vapor extraction wells VE-1 and VE-3. An applied vacuum of 34 IOW was applied during the test performed at vapor extraction well VE-2 and the final portion of the test at vapor extraction well VE-3. A Rotron Model 404 regenerative blower was connected to a 55-gallon capacity moisture knockout tank equipped with a vacuum gauge and air dilution valve, which was connected to the pilot test well. The observed vacuum in the surrounding vapor extraction wells was measured using magnehelic vacuum gauges. A PID was used throughout the testing to screen the off-gas emissions during each pilot test for concentrations of volatile organic compounds. The pilot tests were conducted for a period of approximately two hours each, or until the observed vacuum readings stabilized. Off-gas vapor samples were collected from each extraction well for laboratory analysis at the beginning and near the end of each pilot test. To estimate the radius of influence at the applied vacuum for each extraction pilot test well, the ratio of the observed vacuum at the vapor extraction observation well to the applied vacuum at the pilot test well was calculated. A ratio value meeting or exceeding 0.01 (i.e., 1 percent of the applied vacuum, as measured at the observation point) is generally considered to be within a zone of influence that will result in effective contaminant removal.



#### 4.0 RESULTS

The results of the subsurface investigation and SVE pilot test are presented in the sections that follow. The standard Model Toxics Control Act (MTCA) WAC 173-340 Method A soil and groundwater cleanup levels have been used as the preliminary screening levels for comparative analysis of all soil and groundwater analytical data. Where no MTCA Method A cleanup level exists for a contaminant of potential concern, the standard MTCA Method B cleanup level was used as the preliminary screening level. The final cleanup levels that are appropriate to the Site will be evaluated and selected prior to implementing a cleanup action.

#### 4.1 GEOLOGY AND HYDROGEOLOGY

The boreholes drilled encountered medium dense to dense sand and silty sand, with lenses of silt from beneath the asphalt and subgrade materials to a depth ranging from 25 to 31 feet bgs. Beneath the sand and silty sand was a gravelly sand to sandy gravel unit in which groundwater was encountered. The gravelly sand and sandy gravel unit extended below the deepest soil samples collected at approximately 55 feet bgs. Cross-section A - A' (Figure 5) illustrates the soil lithology underlying the Site from the northwest to the southeast corners. All logs for the borings completed in 2000 are presented in Appendix A.

The groundwater level measurements and calculated groundwater elevations are summarized in Table 1. On July 19, 2000, the groundwater elevations ranged from 49.37 feet at monitoring well MW-1, to 48.34 feet at monitoring well MW-2. The groundwater elevations were calculated with respect to the arbitrary datum of 100 feet based on a surveyed point on the northern portion of each monitoring well casing. The groundwater elevation measurements indicated that the approximate direction of groundwater flow beneath the Site was to the east (Figure 6). The average horizontal hydraulic gradient across the Site was estimated to be 0.03 foot/foot.

On April 25, 2003, the measured groundwater elevations ranged from 48.61 feet at monitoring well MW-1, to 47.52 feet at monitoring well MW-2. The groundwater level measurements again indicated that the approximate direction of groundwater flow was to the east. The average horizontal hydraulic gradient across the Site was estimated to be 0.02 foot/foot.

Farallon also measured basic water quality parameters, including temperature, specific conductance, pH, dissolved-oxygen content, ORP, and turbidity. The results were used to assess when sufficient groundwater had been purged from the monitoring wells prior to collecting representative groundwater samples. These results were also used to assess groundwater geochemistry, and whether the subsurface environment is conducive to natural attenuation via biodegradation of the PCE releases in groundwater. The results for the water quality parameter measurements are summarized in Table 2. The results indicate that the ranges of temperature and pH are within the ranges in which biodegradation processes may occur. The dissolved oxygen and ORP data indicate that groundwater conditions are aerobic and oxidizing. These conditions are not conducive to the biodegradation of PCE or of the degradation compound TCE.



#### 4.2 **DISTRIBUTION OF PCE IN SOIL**

A summary of the analytical results for soil samples collected during the previous investigations and this subsurface investigation is presented in Table 3 and on Figure 5. The analytical results for PCE for the soil samples collected during this subsurface investigation are presented on Figure 4. The laboratory analytical reports for this subsurface investigation are presented in Appendix B.

PCE was the only HVOC detected in the soil samples collected during the 2000 subsurface investigation. Concentrations of TCE; cis-1,2-DCE; 1,1-DCE; trans-1,2-DCE; and vinyl chloride all were below their respective laboratory PQLs.

Borings MW-1, VE-1, VE-2, and VE-5 are located in the vicinity of suspected source areas 4 and 5, specifically, the former laundry machine sump and drains in the northern portion of the Site (Figures 2 and 4). Analytical results for the soil samples collected from these borings indicate that concentrations of PCE exceed the MTCA Method A soil cleanup level of 0.05 mg/kg from a depth of 2.5 bgs to at least 45.5 feet bgs (Figures 4 and 5). The highest concentration of PCE detected in soil from these borings was 230 mg/kg in the sample collected from a depth of 5 to 6.5 feet bgs at boring VE-2.

Borings MW-2, VE-3, and VE-4 are located near suspected source area 1, the former PCE dry cleaning machine, located in the southeast portion of the Site (Figures 2 and 4). Analytical results for soil samples collected from these borings indicate that concentrations of PCE exceed the MTCA Method A soil cleanup level of 0.05 mg/kg from a depth of 2.5 feet bgs to a depth of at least 45.5 feet bgs (Figures 4 and 5). The highest concentration of PCE detected in these borings was 6,900 mg/kg in the sample collected from 10 to 11.5 feet bgs at boring MW-2.

Boring MW-3 is located northeast of source area 3, the former Stoddard solvent UST (Figures 2 and 4). PCE concentrations in the soil samples collected from boring MW-3 were low, with a maximum detected concentration of 0.14 mg/kg at an approximate depth of 45 feet bgs. A soil sample collected from an approximate depth of 7.5 to 9 feet bgs was submitted for analysis of Stoddard solvent through Method NWTPH-Dx. The analytical results indicated no detection of petroleum hydrocarbons above the laboratory PQL.

#### 4.3 **DISTRIBUTION OF PCE IN GROUNDWATER**

The concentrations of PCE in groundwater samples from all three on-site monitoring wells exceeded the MTCA Method A groundwater cleanup level of 5.0 micrograms/liter ( $\mu$ g/l). The groundwater analytical results are summarized in Table 4 and are presented on Figures 6 and 7. The concentrations of PCE ranged from 560  $\mu$ g/l in the groundwater sample collected from monitoring well MW-1, to 1,300  $\mu$ g/l in the groundwater sample collected from monitoring well MW-3 for the July 19, 2000, groundwater monitoring and sampling event. The concentrations of PCE ranged from 1,600  $\mu$ g/l in the groundwater sample collected from monitoring well MW-1, to 3,700  $\mu$ g/l in the groundwater sample collected from monitoring well MW-2 for the April 25,



2003, groundwater monitoring and sampling event. The associated laboratory analytical reports are presented in Appendix B.

PCE was the only HVOC detected in the groundwater samples collected during the July 19, 2000, sampling event. Concentrations of cis-1,2-DCE; 1,1-DCE; trans-1,2-DCE; and vinyl chloride all were below their respective laboratory PQLs.

The groundwater sample collected from monitoring well MW-2 for the April 25, 2003, groundwater monitoring and sampling event had a concentration of TCE at 5.6  $\mu$ g/l, which slightly exceeds the MTCA Method A cleanup level of 5  $\mu$ g/l. Concentrations of the HVOCs cis-1,2-DCE; trans-1,2-DCE; 1,1,1-trichloroethane; trichlorofluoromethane; and chloroform were detected at concentrations above the laboratory PQLs, but below their respective MTCA groundwater cleanup levels. The source(s) of the 1,1,1-trichloroethane; trichlorofluoromethane; and chloroform is not known. The HVOCs TCE; cis-1,2-DCE; and trans-1,2-DCE are degradation products of PCE.

The groundwater sample collected from monitoring well MW-3 was submitted for analysis of petroleum hydrocarbons by Method NWTPH-Gx, and BTEX by ÉPA Method 8021 to assess the potential for Stoddard solvent in groundwater. The laboratory analytical results indicated that gasoline-range organics were present in the groundwater sample at a concentration of 1,000  $\mu$ g/l, which is equivalent to the MTCA Method A groundwater cleanup level. The laboratory noted that the petroleum product detected did not appear to be gasoline, but could not specify which petroleum standard the chromatogram resembled. Concentrations of the BTEX compounds all were below the laboratory PQLs. No further evaluation of petroleum hydrocarbons in groundwater was performed for this investigation.

#### 4.4 WASTE DISPOSAL

The waste soil generated during the drilling activities for the 2000 subsurface investigation was accepted for disposal at Waste Management, Inc.'s Subtitle C landfill facility located in Arlington, Oregon. Based on the analytical information obtained from the soil samples, the waste soil was designated as an F002 dangerous waste in accordance with WAC 173-303. The waste disposal documentation is included in Appendix C.

The decontamination and purge water generated during the 2000 subsurface investigation was accepted for disposal at the Spring Grove Resources Recovery, Inc., treatment storage and disposal facility located in Cincinnati, Ohio. The wastewater was designated as an F002 dangerous waste. The purge water generated during the 2003 groundwater sampling event was accepted for disposal at Waste Management, Inc.'s Subtitle C landfill facility in Arlington, Oregon. The wastewater was designated as an F002 dangerous waste. The wastewater generated at the Site in 2000 is included in Appendix C. The waste disposal documentation for the 2003 groundwater sampling event is not included with this report.



### 5.0 SOIL VAPOR EXTRACTION PILOT TESTING

Farallon conducted pilot tests to assess the feasibility of applying SVE technology to remediate vadose zone soil at the Site. This soil remediation technology was selected based on previous Site assessment data that indicated that subsurface conditions and contaminant distribution are favorable for SVE. The specific conditions that indicate that SVE is a favorable remedial technology for the Site include the following:

- The vertical extent of soil contamination extended below the practical limit for soil remediation by excavation and off-site treatment and disposal;
- The depth to groundwater was unknown at the time of the investigation, but was anticipated to be greater than 34 feet bgs based on previous Site investigation data;
- Site soils consist of medium dense sand with intermittent layers of silt, which are favorable for application of SVE;
- The release of PCE does not appear to be adversely affecting human health or the environment in a manner that would warrant implementation of a more rapid remedial alternative such as excavation of the affected soil; and
- In situ remedial alternatives were preferred by the Site owner to minimize disturbance of the parking area for Land Title Building tenants.

Source removal by excavation also was considered as an alternative soil remedial technology, but was not preferred due to the high concentrations of PCE in the shallow soil and the vertical extent of contamination. The concentrations of PCE in the shallow soil would likely result in generation of a designated dangerous waste material that would substantially increase the soil disposal and Site restoration costs beyond those projected for SVE. Groundwater remedial technologies were not considered during this phase of the assessment pending the findings of the initial assessment of groundwater conditions and quality beneath the Site.

The SVE pilot test data are summarized in Tables 5 through 9, and the associated laboratory analytical reports are presented in Appendix B. These data were used to estimate extraction rates for PCE from the vadose zone if an SVE remediation system was installed at the Site.

The SVE pilot test at vapor extraction well VE-1 was conducted for a period of 155 minutes at an average applied vacuum of 16 IOW and an estimated flow of 28 cubic feet per minute (cfm). Observed vacuums in vapor extraction wells VE-2 through VE-5 ranged from 0.35 to 2.3 IOW (Table 6). The ratio of the observed vacuum to the applied vacuum ranged from 0.02 to 0.14 at the observation wells. This ratio indicates that the radius of influence exceeded the maximum distance of the furthest observation point from the test point of 63 feet at vapor extraction well VE-3. The PID readings for the off-gas organic vapor emissions ranged from 1,110 to 1,467 units (Table 6). Laboratory analytical results for off-gas emission samples collected near the beginning and end of the pilot test at extraction well VE-1 indicated that the concentrations of PCE were 2,300  $\mu$ g/l and 5,300  $\mu$ g/l, respectively (Table 5). The initial off-gas sample also contained concentrations of TCE at 25  $\mu$ g/l, and cis-1,2-DCE at 29  $\mu$ g/l. The increase in PCE

5-1



concentrations during the pilot test suggests that vapor extraction well VE-1 was not located in the area of highest subsurface HVOC contamination.

The SVE pilot test at vapor extraction well VE-2 was conducted for a period of 125 minutes at an average applied vacuum of 34 IOW and an estimated flow of 56 cfm. Observed vacuums in vapor extraction wells VE-1 and VE-3 through VE-5 ranged from 0.18 IOW to 9.5 IOW (Table 7). The ratio of the observed vacuum to the applied vacuum ranged from 0.005 to 0.28, indicating that the radius of influence was substantially less than the 63 feet observed during the pilot test at vapor extraction well VE-1, despite the increased vacuum applied. The radius of influence derived from the test at vapor extraction well VE-2 is estimated to be approximately 35 to 40 feet at the applied vacuum of 34 IOW. The initial PID reading for the off-gas organic vapor emissions was 1,886 units, but PID readings exceeded the maximum limit of 2,000 units throughout the remainder of the pilot test (Table 7). Laboratory analytical results for off-gas emission samples collected near the beginning and end of the pilot test at extraction well VE-1 indicated that the concentrations of PCE were 7,800  $\mu$ g/l and 9,500  $\mu$ g/l, respectively (Table 5). No other PCE degradation compounds were reported to be present in either sample. The increase in PCE concentrations during the pilot test suggests that vapor extraction well VE-2 was not located in the area of highest subsurface contamination at source area 1.

The SVE pilot test at vapor extraction well VE-3 was conducted for a period of 120 minutes at an average applied vacuum of 17 IOW and an estimated flow of 28 cfm. The test was continued for an additional 30 minutes at an applied vacuum of 34 IOW and a flow of 56 cfm. Observed vacuums in vapor extraction wells VE-1, VE-2, VE-4, and VE-5 ranged from 0.11 to 1.4 IOW (Table 8). The ratio of the observed vacuum to the applied vacuum ranged from 0.006 to 0.082, indicating that the radius of influence was at least 58 feet. Once the vacuum was increased to 34 IOW, the observed vacuum readings doubled; however, the estimated radius of influence did not appear to increase significantly.

The PID reading of the off-gas organic vapor emissions exceeded the PID's maximum limit of 2,000 units throughout the pilot test at vapor extraction well VE-3 (Table 8). Off-gas emission samples were collected near the beginning and end of the pilot test at the applied vacuum of 17 IOW, and at the end of the test at the applied vacuum of 34 IOW. Laboratory analytical results for the off-gas samples collected at the beginning and end of the initial test at the applied vacuum of 17 IOW indicated that the concentrations of PCE were 7,300  $\mu$ g/l and 10,000  $\mu$ g/l, respectively (Table 5). The laboratory analytical results for the off-gas sample collected approximately 30 minutes following the initial test at the applied vacuum of 34 IOW indicated that the concentration of PCE decreased to 8,000  $\mu$ g/l (Table 5). No other PCE degradation compounds were present in the off-gas samples.

Farallon performed calculations to estimate the pounds of PCE per day and per year that would be removed if an SVE system was installed (Table 9). The calculations indicate that the estimated PCE mass removal ranges from 19.83 to 55.09 pounds per day, and 7,237 to 20,108 pounds per year.



#### 6.0 CONCLUSIONS

Prior subsurface investigations at the Site confirmed that a release of PCE to soil occurred from at least two suspected source areas, including the former PCE dry cleaning machine located in the southeastern portion of the Site (designated as source area 1), and the former laundry machine sump and drains located in the northern portion of the Site (designated as source areas 4 and 5). This subsurface investigation assessed the basic Site hydrogeology, characterized the on-site distribution of PCE concentrations in soil and groundwater, and assessed the technical feasibility of SVE for in situ treatment of contaminated soil in the vadose zone. Farallon also identified data gaps that should be addressed prior to implementing a final remedial action for soil and groundwater impacted by releases of PCE to the subsurface at the Site.

Soil underlying the Site is comprised of medium dense to dense sand and silty sand, with lenses of silt that extend from beneath the asphalt and subgrade materials to a depth ranging from 25 to 31 feet bgs. Beneath the sand and silty sand is a gravelly sand and sandy gravel unit within which groundwater is present. The gravelly sand and sandy gravel unit extended to the deepest samples collected during the investigation at approximately 55 feet bgs. The soil encountered did not consist of materials such as uniform layers of silt, clay, or organic-rich soils that would typically retard the movement of PCE in the subsurface. The organic content of the soil, which directly affects contaminant mobility, was not assessed for this phase of subsurface investigation.

The analytical results for the soil matrix samples indicate that PCE was released to the subsurface soil in the north-central and southeastern areas of the Site. The source area in the northern portion of the Site was likely associated with the former sump and drain lines for the former laundry machines (source areas 4 and 5). The source area on the southeastern portion of the Site was likely associated with the former PCE dry cleaning machine (source area 1). The analytical results for PCE in soil vapor and soil matrix samples collected from the south-central portion of the Site near monitoring well MW-3, were not indicative of a PCE release in this area. Analytical results for soil samples collected from borings at the Site indicate that concentrations of PCE exceed the MTCA Method A soil cleanup level of 0.05 mg/kg from near the ground surface to a depth of at least 45.5 feet bgs. The highest PCE concentrations in soil in the northern and southeastern areas of the Site were 7,200 mg/kg detected at 6 feet bgs in a soil sample from boring GP-1, advanced during the 1999 Phase II investigation, and 6,900 mg/kg in the sample collected from 10 to 11.5 feet bgs at boring MW-2 during the 2000 subsurface investigation. Concentrations of TCE; cis- and trans-1,2-DCE; and vinyl chloride all were below their respective PQLs in the soil samples collected during the 2000 subsurface investigation, suggesting that biodegradation of PCE in the vadose zone is negligible.

The extent of PCE in soil at the Site has been relatively well defined by the existing soil analytical data. However, the relatively high concentrations of PCE detected in the soil matrix samples collected from borings VE-2 and MW-2, which were located less than 10 feet from the northern and eastern Site property lines, respectively, suggest that concentrations of PCE in soil may extend off of the Site.



The assessment of petroleum hydrocarbons has been limited, based on the soil vapor and soil matrix analytical data from the previous investigation, which did not indicate that a significant release of petroleum hydrocarbons has occurred at the Site. Further, field observations during completion of soil borings and monitoring well borings have not been indicative of a petroleum release. The groundwater analytical data are insufficient to determine whether the source of the total petroleum hydrocarbons as gasoline-range organics was associated with a release of Stoddard solvent. The cleanup alternatives being considered to address the releases of PCE will also be effective for petroleum hydrocarbons. Therefore, petroleum hydrocarbons that may be present to a lesser extent will be addressed by future cleanup actions. Confirmation soil and groundwater sampling following cleanup may be required by Ecology to confirm that residual petroleum hydrocarbons are not present in the vicinity of the former potential source areas, including the Stoddard solvent dry cleaning machine, the gasoline/diesel UST, and the heating oil UST.

The groundwater elevation data for the July 2000 and April 2003 groundwater monitoring and sampling events were relatively consistent, and indicated that the approximate direction of groundwater flow beneath the Site is to the east. The average horizontal hydraulic gradient across the Site ranged from 0.02 to 0.03 foot/foot. Additional groundwater monitoring will be required to determine whether there are seasonal effects on groundwater flow and elevation. The thickness of the initial water-bearing zone underlying the Site that was encountered during this subsurface investigation was not assessed. The initial water-bearing zone appears to be unconfined, based on the absence of a layer of soil that was of lower permeability than the overlying soil. Additional hydrogeologic assessment may be required to assess the vertical distribution and fate and transport characteristics of the PCE releases within the aquifer beneath the Site.

Concentrations of PCE and TCE in groundwater beneath the Site exceed their respective MTCA Method A cleanup levels of 5  $\mu$ g/l. Concentrations of PCE in the groundwater samples collected from all three monitoring wells increased between the July 2000 and April 2003 monitoring and sampling events. The presence of PCE degradation compounds in all three monitoring wells indicates that natural attenuation of PCE is occurring in groundwater. However, the rate of natural attenuation does not appear to be significant, based on the observed ratio of the concentrations of PCE to those of the degradation compounds (Table 4). The water quality parameters such as dissolved oxygen and ORP (Table 3) indicate that groundwater conditions are more aerobic than anaerobic, a condition that is not conducive to the biodegradation of PCE.

The previous soil vapor data and soil matrix analytical data for this investigation suggest that PCE concentrations in groundwater should be highest in the vicinity of the southeastern corner or the north-central portion of the Site. However, the concentrations of PCE from up-gradient monitoring well MW-3 in the southwestern portion of the eastern parking area were higher than what was expected, given the concentrations of PCE detected in the overlying soil. The previous soil vapor data and current soil matrix analytical data collected in the vicinity of monitoring well MW-3 were not indicative of a release of PCE in this area. Additional groundwater monitoring and sampling data and characterization of the distribution of PCE in groundwater will be required to assess whether concentrations of PCE in groundwater at monitoring well MW-3 are due to a seasonal shift in the groundwater gradient, and whether a source area exists near or



up-gradient of monitoring well MW-3. Additional characterization will also be required to assess the up-gradient and down-gradient distribution of PCE in the vicinity of the Site.

SVE pilot tests were conducted at three of the five vapor extraction wells that were installed at the Site. The estimated radius of influence for the SVE pilot tests ranged from approximately 40 to 63 feet from the extraction points. Results of the SVE pilot tests indicate that SVE would be an effective remedial technology for concentrations of PCE in the vadose zone soil underlying the Site. SVE also may be used to address PCE concentrations, if present, that may extend off of the Site. Sufficient information is available at this time to support the design of an SVE system. The groundwater analytical data indicate that technically feasible remedial alternatives for groundwater also will need to be evaluated to meet the requirements for a No Further Action determination under MTCA.

Based on the available information, Farallon has identified the following data gaps in the characterization of the Site:

- Insufficient data are available to determine if concentrations of PCE in soil extend to the west, north, or east of the Site;
- The lateral and vertical distribution of PCE in groundwater has not been defined;
- The source of PCE affecting groundwater quality at monitoring well MW-3 has not been identified;
- Further assessment of petroleum hydrocarbons in soil and groundwater may be required prior to requesting a No Further Action determination from Ecology; and
- Soil and groundwater physical characteristics such as organic carbon content, vertical hydraulic gradient, thickness of the water-bearing zone and vertical distribution of PCE in groundwater, and hydraulic conductivity may require additional assessment prior to developing a cleanup action plan.

These data gaps should be addressed to support the design and implementation of a final remedial action for soil and groundwater contamination resulting from releases of PCE at the Site.



#### 7.0 REFERENCES

Farallon Consulting, L.L.C. 1999. Phase II Subsurface Investigation, Land Title Building Parking Lot. December 6.

SECOR International Incorporated. 1998. Land Title Building Site Investigation Report. June 12.

Washington State Department of Ecology. 2001. Model Toxics Control Act Cleanup Regulation. Chapters 173-340 of the Washington Administrative Code. February 12.

Washington State Department of Ecology. 2001. Cleanup Levels and Risk Calculations under the Model Toxics Control Act Cleanup Regulation, Version 3.1. November.



## 8.0 LIMITATIONS

The conclusions and recommendations contained in this report/assessment are based on professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted hydrogeologic and engineering standards and practices applicable to this location, and are subject to the following inherent limitations:

- Accuracy of Information. Certain information utilized by Farallon in this report/assessment has been obtained, reviewed, and evaluated from various sources believed to be reliable, including the local health districts, fire departments, and the previously discussed interviews. Although Farallon's conclusions, opinions, and recommendations are based in part on such information, Farallon's services did not include the verification of its accuracy or authenticity. Should such information prove to be inaccurate or unreliable, Farallon reserves the right to amend or revise its conclusions, opinions, and/or recommendations.
- **Reconnaissance**. Farallon performed a reconnaissance of the Site that is the subject of this report/assessment to document current conditions. Farallon focused on areas deemed more likely to exhibit hazardous materials conditions, while other areas received limited attention or were inaccessible at the time of our reconnaissance.

# FIGURES

Subsurface Investigation and Soil Vapor Extraction Feasibility Pilot Test Former City Hand Laundry 1002 4th Street Bremerton, Washington

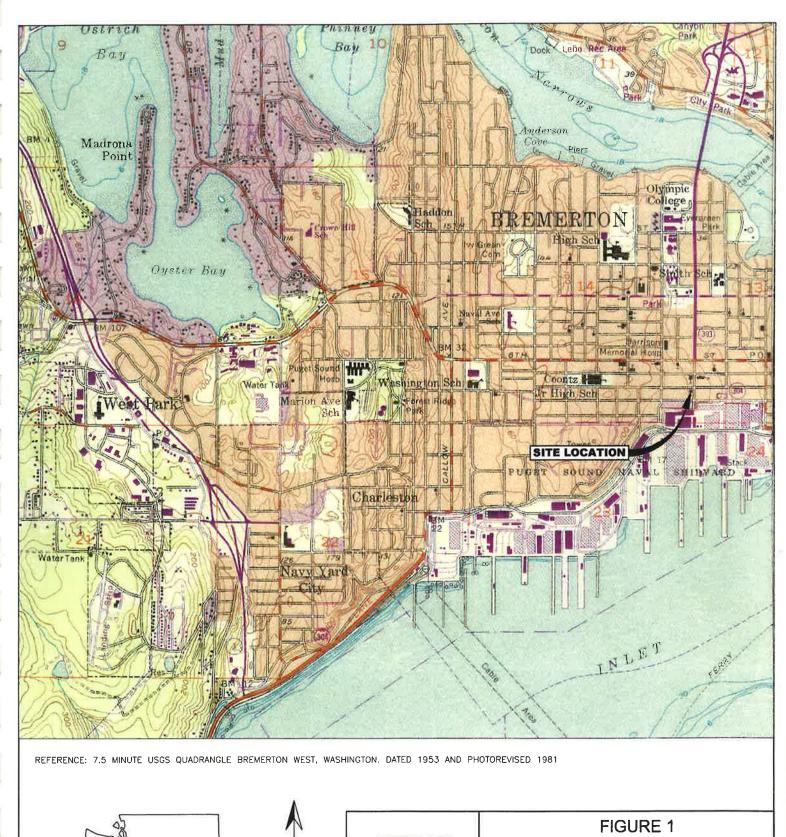
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SITE LOCATION MAP FORMER CITY HAND LAUNDRY SITE 1002 4TH STREET BREMERTON, WASHINGTON

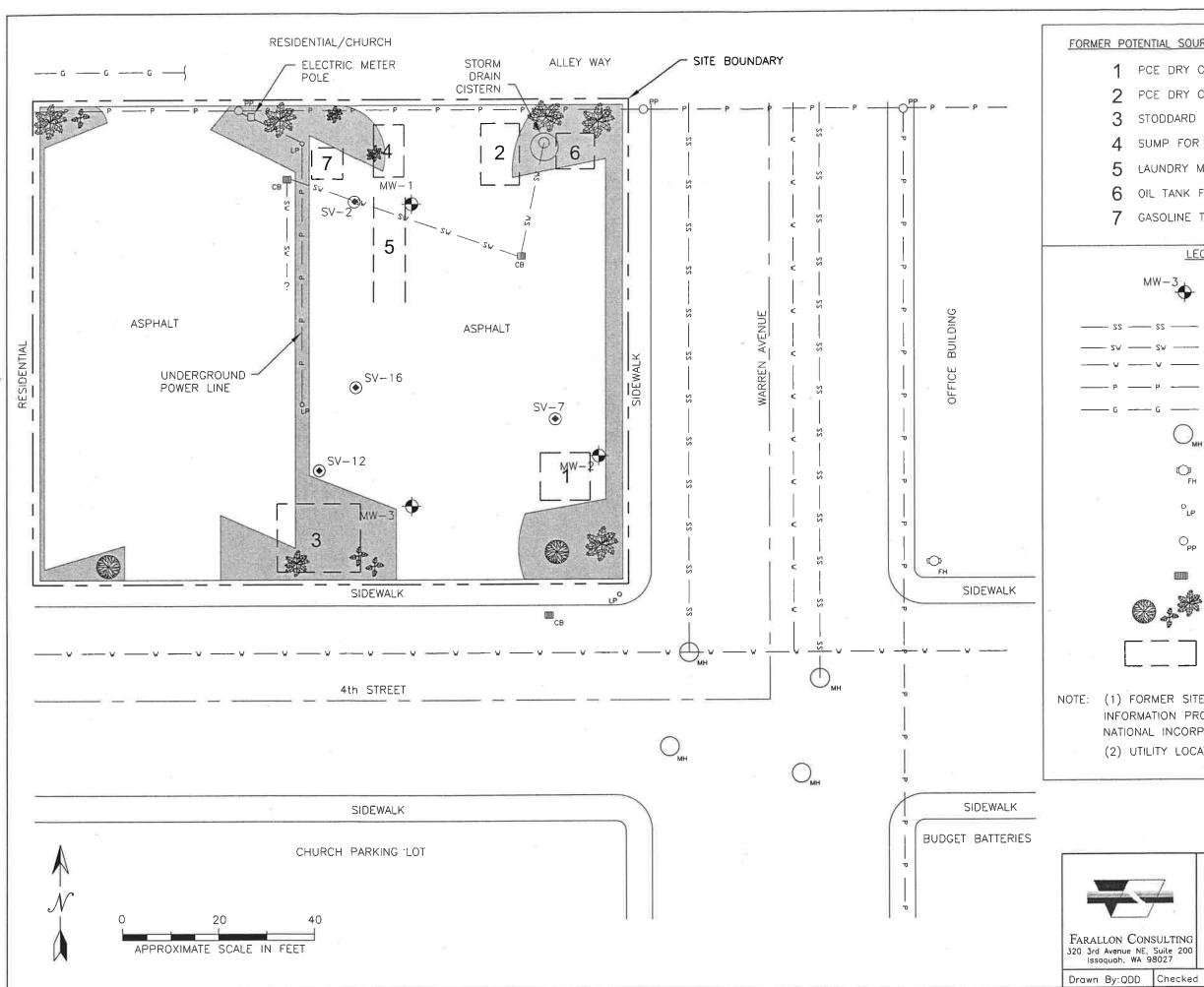
WASHINGTON

BREMERTON

FARALLON CONSULTING 320 3rd Ave. NE, Suite 200 Issaquoh, WA 98027

Drawn By: QDD Checked By: PJ Date:6/17/03

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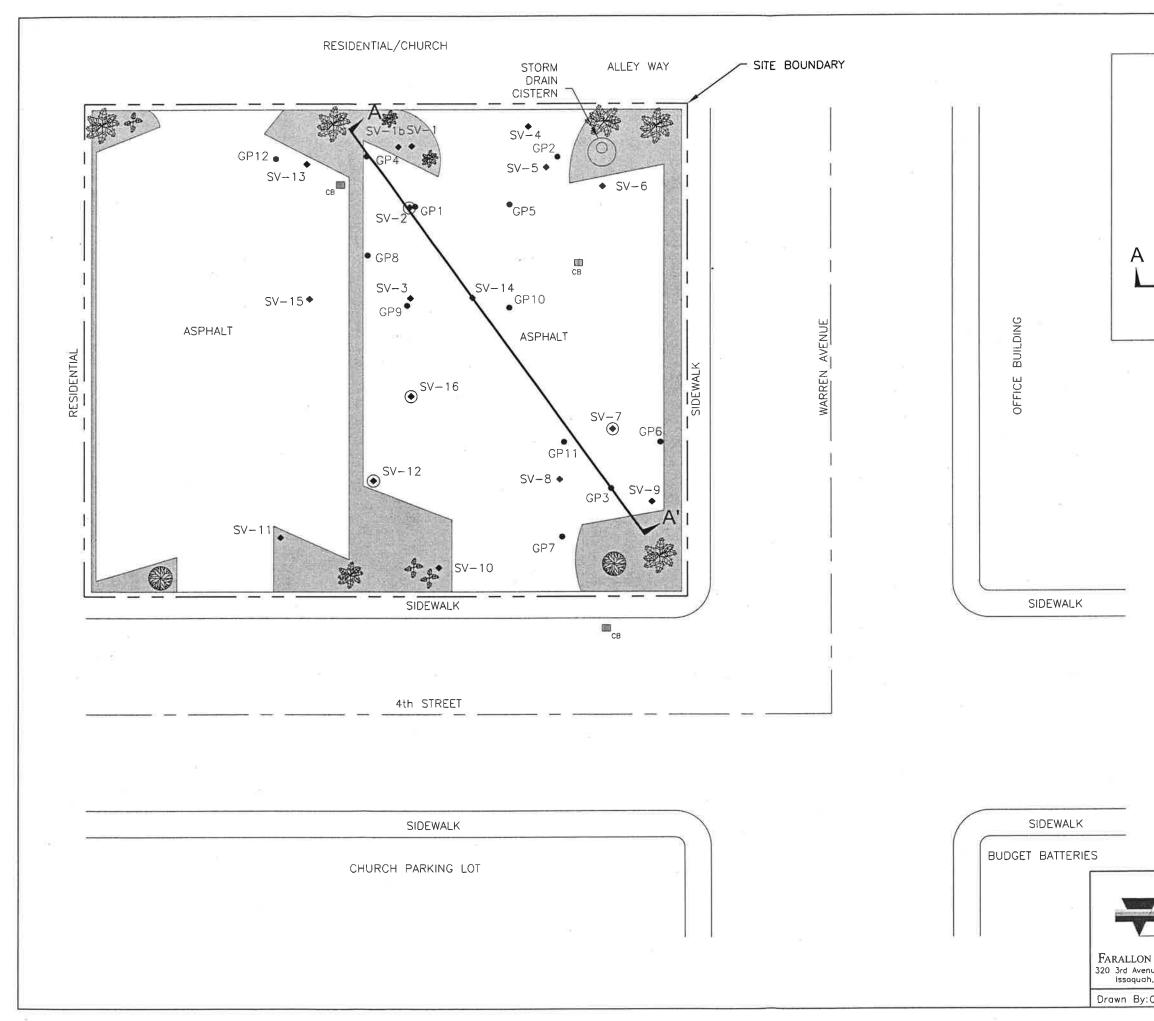
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| POTENTIAL SOL                      | JRCE AREA EXPLANATION ( LOCATIONS APPROX. )                       |
|------------------------------------|-------------------------------------------------------------------|
| PCE DRY                            | CLEANING MACHINE (1961-1972)                                      |
| 2 PCE DRY                          | CLEANING MACHINE (1972-1985)                                      |
| 3 STODDARD                         | DRY CLEANING MACHINE (1940-1945)                                  |
| 4 SUMP FOR                         | R LAUNDRY MACHINE DRAINS                                          |
| 5 LAUNDRY                          | MACHINE DRAINS                                                    |
| 6 OIL TANK                         | FOR BOILER (REMODELED 1985)                                       |
| 7 GASOLINE                         | THEN DIESEL TANKS FOR TRUCKS                                      |
|                                    | IGEND                                                             |
|                                    |                                                                   |
| MW-3                               | GROUNDWATER MONITORING WELL LOCATION<br>FARALLON (JULY 5–7, 2000) |
| 22                                 | - SANITARY SEWER LINE                                             |
| w w                                | - STORMWATER LINE<br>- WATER LINE                                 |
| » —— » —                           |                                                                   |
| G <del></del> G                    | - GAS LINE                                                        |
| $\cap$                             | MAN HOLE                                                          |
| Ū.                                 |                                                                   |
| FH                                 | FIRE HYDRANT                                                      |
| O<br>LP                            | LIGHT POLE                                                        |
| Opp                                | POWER POLE                                                        |
|                                    | CATCH BASIN                                                       |
| \$ + \$                            | VEGETATION                                                        |
|                                    | POTENTIAL SOURCE AREA                                             |
| ,                                  | E FEATURES BASED ON<br>ROVIDED BY SECOR INTER-<br>PORATED.        |
| 2) UTILITY LOC                     | ATIONS ARE APPROXIMATE.                                           |
|                                    |                                                                   |
|                                    |                                                                   |
|                                    | FIGURE 2                                                          |
|                                    | EXISTING SITE FEATURES                                            |
|                                    | & FORMER POTENTIAL SOURCE AREAS<br>FORMER CITY HAND LAUNDRY SITE  |
| N CONSULTING                       | 1002 4TH STREET<br>BREMERTON, WASHINGTON                          |
| enue NE, Suite 200<br>oh, WA 98027 | FARALLON PN: 603-001                                              |

| h, WA 98027 |         |          | FARALLON PN: 603-001 |                       |  |  |  |
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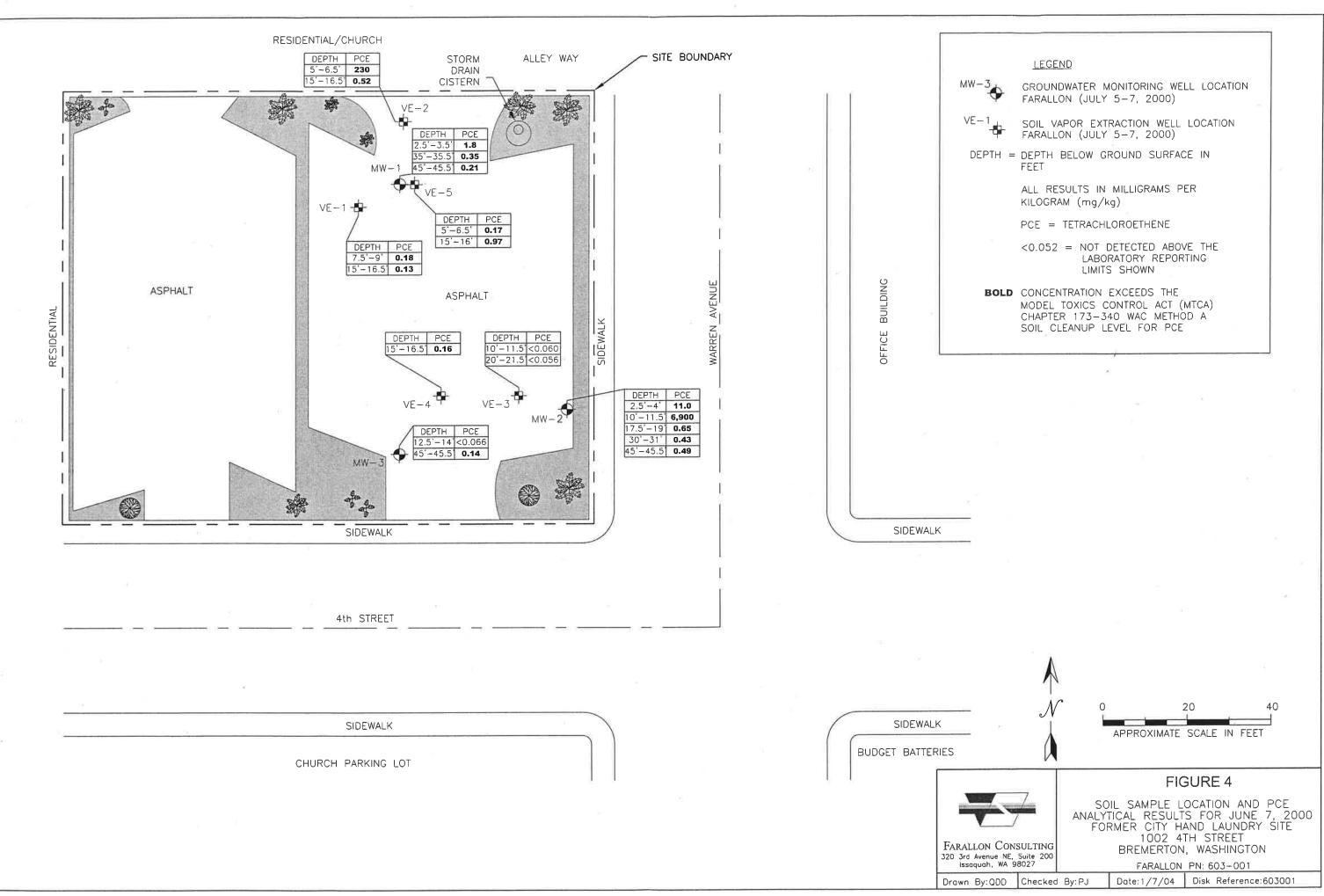
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|                    | LEGEND                                                                                    |
|--------------------|-------------------------------------------------------------------------------------------|
| GP7<br>SV-14       | SOIL BORING LOCATION<br>FARALLON (SEPT 24–25, 1999)<br>SOIL VAPOR POINT LOCATION          |
| •                  | SECOR (MAY 30, 1999)                                                                      |
| SV-12€             | SOIL VAPOR POINT AND<br>SOIL SAMPLE LOCATION<br>SECOR (MAY 30, 1999)                      |
| A'                 | LINE OF CROSS-SECTION                                                                     |
| СВ                 | CATCH BASIN                                                                               |
| ł                  |                                                                                           |
|                    | 7 —                                                                                       |
|                    |                                                                                           |
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| $\mathcal{N}$      | 0 20 40                                                                                   |
|                    | APPROXIMATE SCALE IN FEET                                                                 |
|                    | FIGURE 3                                                                                  |
|                    | SOIL BORING AND<br>SOIL VAPOR POINT LOCATIONS<br>PHASE I AND II INVESTIGATIONS            |
|                    | FORMER CITY HAND LAUNDRY SITE<br>4TH STREET BREMERTON, WASHINGTON<br>FARALLON PN: 603-001 |
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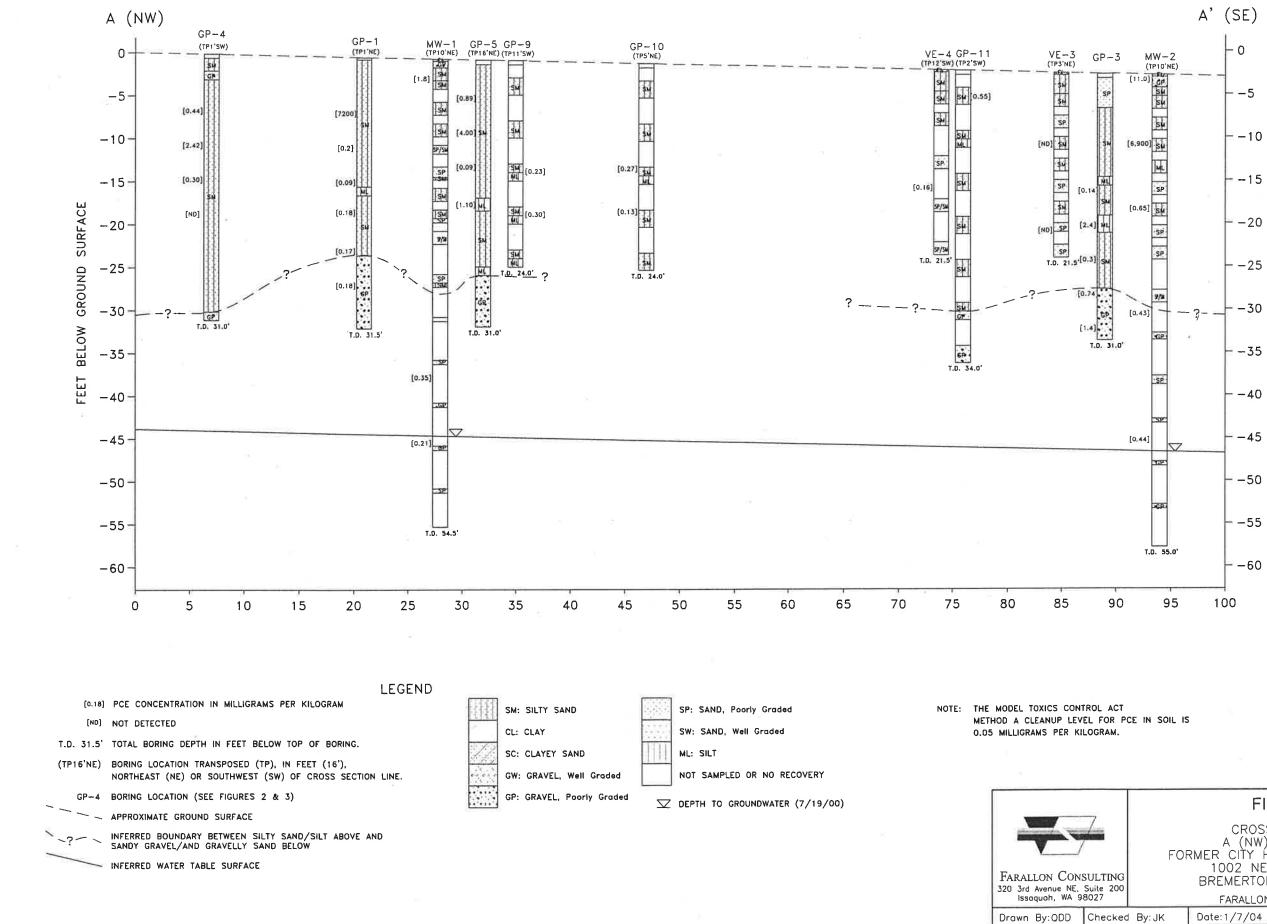


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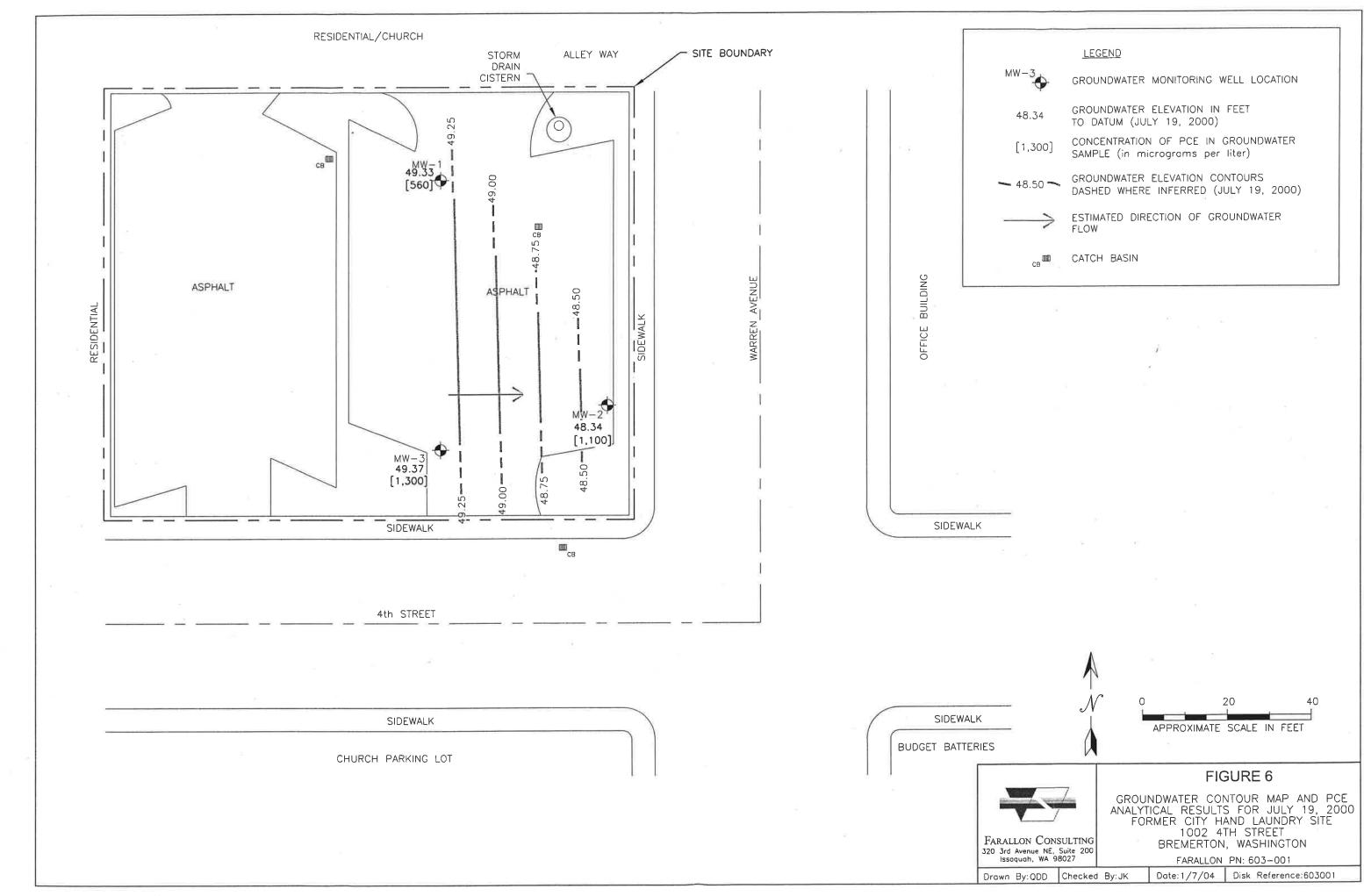
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|                      | LEGEND                                                                                                                     |
|----------------------|----------------------------------------------------------------------------------------------------------------------------|
| <sup>3</sup>         | GROUNDWATER MONITORING WELL LOCATION<br>FARALLON (JULY 5–7, 2000)                                                          |
| - 1<br>- <b>\$</b> - | SOIL VAPOR EXTRACTION WELL LOCATION<br>FARALLON (JULY 5-7, 2000)                                                           |
| PTH =                | DEPTH BELOW GROUND SURFACE IN<br>FEET                                                                                      |
|                      | ALL RESULTS IN MILLIGRAMS PER<br>KILOGRAM (mg/kg)                                                                          |
|                      | PCE = TETRACHLOROETHENE                                                                                                    |
|                      | <0.052 = NOT DETECTED ABOVE THE<br>LABORATORY REPORTING<br>LIMITS SHOWN                                                    |
| BOLD                 | CONCENTRATION EXCEEDS THE<br>MODEL TOXICS CONTROL ACT (MTCA)<br>CHAPTER 173-340 WAC METHOD A<br>SOIL CLEANUP LEVEL FOR PCE |



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|                                | _       |                                                                                                                   | FIG          | GURE 5                |  |  |  |
|--------------------------------|---------|-------------------------------------------------------------------------------------------------------------------|--------------|-----------------------|--|--|--|
| CONSULTING<br>ue NE, Suite 200 |         | CROSS SECTION<br>A (NW) – A' (SE)<br>FORMER CITY HAND LAUNDRY SITE<br>1002 NE 4TH STREET<br>BREMERTON, WASHINGTON |              |                       |  |  |  |
| , WA 98027                     |         | FARALLON PN: 603-001                                                                                              |              |                       |  |  |  |
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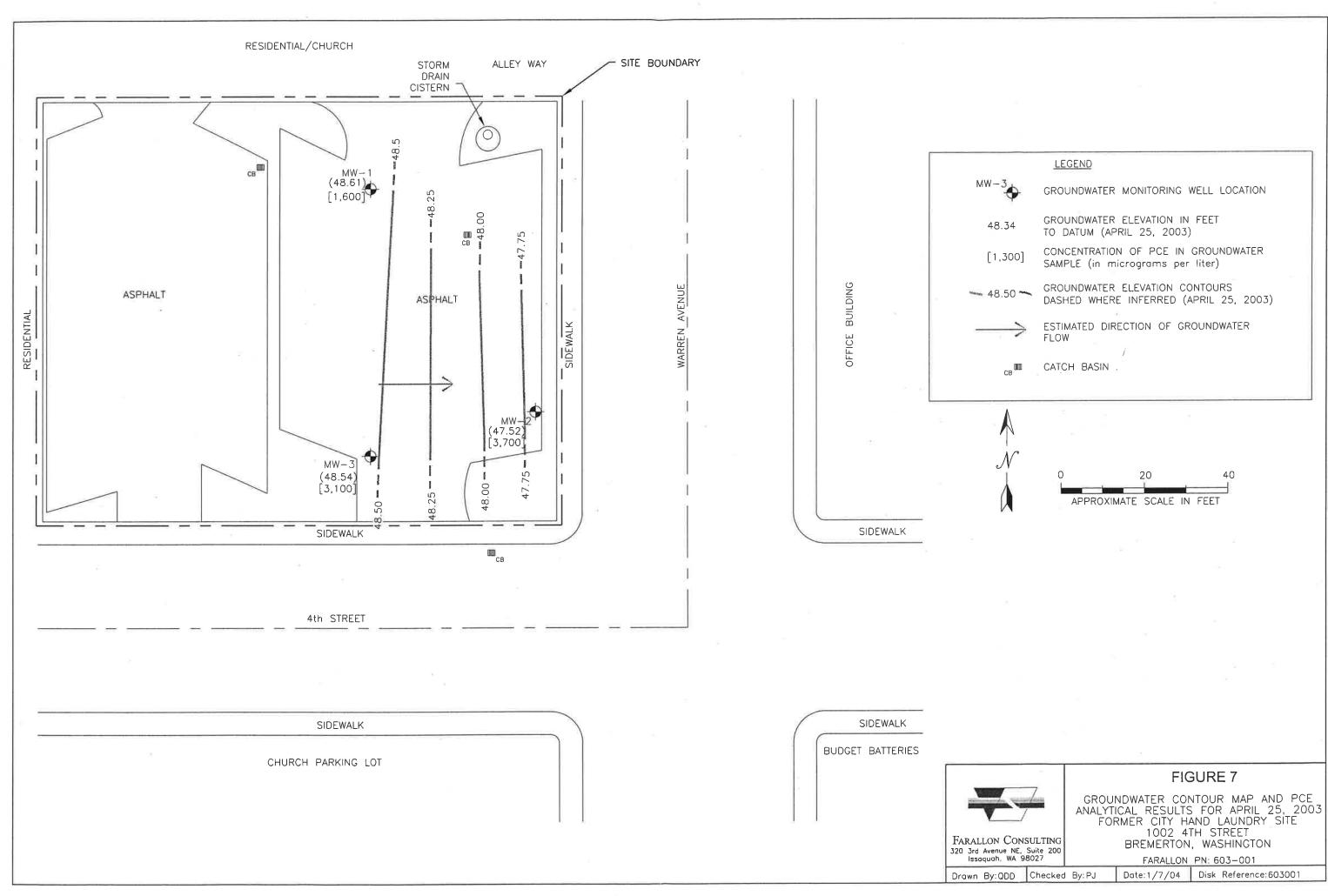


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|               | LEGEND                                                                  |
|---------------|-------------------------------------------------------------------------|
| <sup>3</sup>  | GROUNDWATER MONITORING WELL LOCATION                                    |
| 3.34          | GROUNDWATER ELEVATION IN FEET<br>TO DATUM (JULY 19, 2000)               |
| ,300]         | CONCENTRATION OF PCE IN GROUNDWATER<br>SAMPLE (in micrograms per liter) |
| 8.50 🛰        | GROUNDWATER ELEVATION CONTOURS<br>DASHED WHERE INFERRED (JULY 19, 2000) |
| $\rightarrow$ | ESTIMATED DIRECTION OF GROUNDWATER<br>FLOW                              |
| СВ            | CATCH BASIN                                                             |
| Ϋ́.           | 10<br>IC                                                                |



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|               | LEGEND                                                                   |
|---------------|--------------------------------------------------------------------------|
| <sup>3</sup>  | GROUNDWATER MONITORING WELL LOCATION                                     |
| 3.34          | GROUNDWATER ELEVATION IN FEET<br>TO DATUM (APRIL 25, 2003)               |
| ,300]         | CONCENTRATION OF PCE IN GROUNDWATER<br>SAMPLE (in micrograms per liter)  |
| 3.50 🛰        | GROUNDWATER ELEVATION CONTOURS<br>DASHED WHERE INFERRED (APRIL 25, 2003) |
| $\rightarrow$ | ESTIMATED DIRECTION OF GROUNDWATER                                       |
| CB III        | CATCH BASIN ,                                                            |

# TABLES

Subsurface Investigation and Soil Vapor Extraction Feasibility Pilot Test Former City Hand Laundry 1002 4th Street Bremerton, Washington

Farallon PN: 603-001

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# Table 1Summary of Groundwater Surface ElevationsFormer City Hand Laundry PropertyBremerton, WashingtonFarallon PN: 603-001

| Monitoring Well<br>Number | Date Measured | Depth to Water<br>(feet) <sup>1</sup> | Well Casing<br>Elevation (feet) <sup>2</sup> | Groundwater<br>Elevation (feet) <sup>2</sup> |
|---------------------------|---------------|---------------------------------------|----------------------------------------------|----------------------------------------------|
|                           | 7/19/2000     | 44.47                                 | 93.84                                        | 49.37                                        |
| MW-1                      | 4/25/2003     | 45.23                                 | 93.84                                        | 48.61                                        |
|                           | 7/19/2000     | 46.90                                 | 95.24                                        | 48.34                                        |
| MW-2                      | 4/25/2003     | 47.72                                 | 95.24                                        | 47.52                                        |
| NOV 2                     | 7/19/2000     | 46.85                                 | 96.18                                        | 49.33                                        |
| MW-3                      | 4/25/2003     | 47.64                                 | 96.18                                        | 48.54                                        |

#### NOTES:

<sup>1</sup>Depth below top of well casing in feet

<sup>2</sup>Relative to arbitrary datum of 100.00 feet

# Table 2Summary of Groundwater Quality ParametersFormer City Hand Laundry PropertyBremerton, WashingtonFarallon PN: 603-001

| Monitoring<br>Well Number | Date<br>Sampled | Temperature<br>(°C) | Specific<br>Conductance<br>(mS/cm) | pH  | Dissolved<br>Oxygen<br>(mg/l) | Turbidity<br>(NTUs) | Oxidation<br>Reduction<br>Potential<br>(mV) |
|---------------------------|-----------------|---------------------|------------------------------------|-----|-------------------------------|---------------------|---------------------------------------------|
| MW-1                      | 7/19/2000       | IE                  | 0.8                                | 6.3 | 8.5                           |                     | 155.0                                       |
| 101 00 - 1                | 4/25/2003       | 13.1                | 0.2                                | 6.6 | 13.3                          | 0.1                 | 102.0                                       |
| MW-2                      | 7/19/2000       | IE                  | 0.8                                | 5.6 | 7.6                           | 1                   | 190.0                                       |
| 101 00 -2                 | 4/25/2003       | 14.0                | 0.2                                | 6.3 | 15.2                          | 0.2                 | 99.3                                        |
| MW-3                      | 7/19/2000       | IE                  | 3.6                                | 6.4 | 6.7                           | -                   | 161.0                                       |
| 101 00 - 5                | 4/25/2003       | 13.4                | 0.2                                | 6.3 | 13.1                          | 0.1                 | 128.6                                       |

#### NOTES:

- indicates parameter not measured.

IE denotes instrument error.

<sup>o</sup>C = degrees Celsius

mS/cm = microsemens per centimeter

mg/l = milligrams per liter

NTU = nephelometric turbidity units

mV = millivolts

#### Table 3 Summary of Soil Analytical Results Former City Hand Laundry Property Bremerton, Washington Farailon PN: 603-001

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| Sample               | Sample Number      | Sampled<br>By | Date<br>Sampled   |      | h Analytical Results (milligrams per kilogram) |                  |                             |                               |                      |                                |                      |               |
|----------------------|--------------------|---------------|-------------------|------|------------------------------------------------|------------------|-----------------------------|-------------------------------|----------------------|--------------------------------|----------------------|---------------|
| Location             |                    |               |                   |      | PCE <sup>2</sup>                               | TCE <sup>2</sup> | cis-1,2<br>DCE <sup>2</sup> | trans-1,2<br>DCE <sup>2</sup> | 1,1 DCE <sup>2</sup> | Vinyl<br>Chloride <sup>2</sup> | DRO/ORO <sup>3</sup> | BTEX          |
| 998 to 1999 S        | ite Investigations |               |                   |      |                                                |                  |                             |                               |                      |                                | 8                    |               |
| SV-2                 | SV-2               | SECOR         | 5/30/1998         | 8    | 0.43                                           | ND               | ND                          | ND                            | ND                   | ND                             | •                    | ND            |
| SV-7                 | SV-7               | SECOR         | 5/30/1998         | 9    | 0.68                                           | ND               | ND                          | ND                            | ND                   | ND                             |                      | ND            |
| SV-12                | SV-12              | SECOR         | 5/30/1998         | 8    | 0.27                                           | ND               | ND                          | ND                            | ND                   | ND                             |                      | ND            |
| SV-16                | SV-16              | SECOR         | 5/30/1998         | 8    | 0.4                                            | ND               | ND                          | ND                            | ND                   | ND                             |                      | ND            |
| all the state of the |                    | Base Lines    | a second a second |      | an sustained                                   | 2.[ 王的]]]        | 0.800.000                   |                               | Conversion and       |                                | 「京客」は19世代に           | 國際構成方式        |
| GP-1                 | GP1-6              | Farallon      | 9/24/1999         | 6    | 7,200                                          | 30               | 14                          | 0.32                          | ND                   | ND                             |                      |               |
| GP-1                 | GP1-10             | Farallon      | 9/24/1999         | 10   | 0.2                                            | ND               | ND                          | ND                            | ND                   | ND                             | -                    | · ·           |
| GP-1                 | GP1-14             | Farallon      | 9/24/1999         | 14   | 0.09                                           | 0.17             | ND                          | 0.08                          | ND                   | ND                             |                      |               |
| GP-1                 | GP1-17.5           | Farallon      | 9/24/1999         | 17.5 | 0.18                                           | ND               | ND                          | ND                            | ND                   | ND                             | ×                    | •             |
| GP-1                 | GP1-22             | Farallon      | 9/24/1999         | 22   | 0.17                                           | ND               | 0.16                        | ND                            | ND                   | ND                             |                      | •             |
| GP-1                 | GP1-26             | Farallon      | 9/24/1999         | 26   | 0.18                                           | 0.16             | ND                          | 0.07                          | ND                   | ND                             |                      |               |
| GP-2                 | GP2-6              | Farallon      | 9/24/1999         | 6    | 0.45                                           | ND               | ND                          | ND                            | ND                   | ND                             |                      | •             |
| GP-2                 | GP2-10             | Farallon      | 9/24/1999         | 10   | 0.46                                           | ND               | ND                          | ND                            | ND                   | ND                             | ×                    | ×             |
| GP-2                 | GP2-14             | Farallon      | 9/24/1999         | 14   | 0.15                                           | 0.19             | 0.11                        | ND                            | ND                   | ND                             |                      |               |
| GP-2                 | GP2-18             | Farallon      | 9/24/1999         | 18   | 0.4                                            | 0.24             | ND                          | ND                            | ND                   | ND                             |                      |               |
| GP-2                 | GP2-22             | Farallon      | 9/24/1999         | 22   | 0.28                                           | 0.12             | ND                          | 0.07                          | ND                   | ND                             | •                    | •             |
| GP-2                 | GP2-26             | Farallon      | 9/24/1999         | 26   | 0.28                                           | 0.07             | ND                          | ND                            | ND                   | ND                             |                      | <u> </u>      |
| GP-3                 | GP3-14             | Farallon      | 9/24/1999         | 14   | 0.14                                           | 0.19             | 0.06                        | ND                            | ND                   | ND                             | · · · ·              | -             |
| GP-3                 | GP3-18             | Farallon      | 9/24/1999         | 18   | 2.4                                            | 0.1              | ND                          | 0.07                          | ND                   | ND                             |                      |               |
| GP-3                 | GP3-22             | Farallon      | 9/24/1999         | 22   | 0.3                                            | 0.07             | ND                          | 0.07                          | ND                   | ND                             |                      |               |
| GP-3                 | GP3-26             | Farallon      | 9/24/1999         | 26   | 0.74                                           | 0.17             | ND                          | 0.08                          | ND                   | ND                             | -                    |               |
| GP-3                 | GP3-30             | Farallon      | 9/24/1999         | 30   | 1.4                                            | ND               | ND                          | ND                            | ND                   | ND                             |                      |               |
| GP-4                 | GP4-6              | Farallon      | 9/24/1999         | 6    | 0.44                                           | ND               | 0.07                        | ND                            | ND                   | ND                             | -                    |               |
| GP-4                 | GP4-10             | Farallon      | 9/24/1999         | 10   | 2.42                                           | 0.24             | ND                          | ND                            | ND                   | ND                             |                      |               |
| GP-4                 | GP4-14             | Farallon      | 9/24/1999         | 14   | 0.30                                           | ND               | ND                          | ND                            | ND                   | ND                             | ~                    |               |
| GP-4                 | GP4-18             | Farallon      | 9/24/1999         | 18   | ND                                             | ND               | ND                          | ND                            | ND                   | ND                             |                      | . <del></del> |
| GP-5                 | GP5-6              | Farallon      | 9/24/1999         | 6    | 0.89                                           | ND               | ND                          | ND                            | ND                   | ND                             | -                    | -             |
| GP-5                 | GP5-10             | Farallon      | 9/24/1999         | 10   | 4.00                                           | 0.08             | ND                          | ND                            | ND                   | ND                             |                      | •             |
| GP-5                 | GP5-14             | Farallon      | 9/24/1999         | 14   | 0.09                                           | ND               | ND                          | ND                            | ND                   | ND                             |                      |               |
| GP-5                 | GP5-18             | Farallon      | 9/25/1999         | 18   | 1.10                                           | ND               | ND                          | ND                            | ND                   | ND                             | -                    | <u></u>       |
| GP-6                 | GP6-17             | Farallon      | 9/25/1999         | 17   | 0.36                                           | 0.10             | ND                          | ND                            | ND                   | ND                             |                      |               |
| GP-6                 | GP6-22             | Farallon      | 9/25/1999         | 22   | 0.35                                           | ND               | ND                          | ND                            | ND                   | ND                             | -                    |               |
| GP-6                 | GP6-27             | Farallon      | 9/25/1999         | 27   | 0.42                                           | ND               | ND                          | ND                            | ND                   | ND                             | -                    |               |
| GP-7                 | GP7-27             | Farallon      | 9/25/1999         | 27   | 0.27                                           | ND               | ND                          | ND                            | ND                   | ND                             | -                    |               |
| GP-7                 | GP7-32             | Farallon      | 9/25/1999         | 32   | 0.31                                           | ND               | ND                          | ND                            | ND                   | ND                             |                      |               |
| GP-8                 | GP8-12             | Farallon      | 9/25/1999         | 12   | 0.30                                           | ND               | ND                          | ND                            | ND                   | ND                             | 2                    |               |
| GP-8                 | GP8-17             | Farallon      | 9/25/1999         | 17   | 0.14                                           | ND               | ND                          | ND                            | ND                   | ND                             |                      |               |
| GP9                  | GP9-12             | Farallon      | 9/25/1999         | 12   | 0.23                                           | ND               | ND                          | ND                            | ND                   | ND                             |                      |               |
| GP9                  | GP9-17             | Farallon      | 9/25/1999         | 17   | 0.30                                           | ND               | ND                          | ND                            | ND                   | ND                             |                      |               |
| GP10                 | GP10-12            | Farallon      | 9/25/1999         | 12   | 0.27                                           | ND               | ND                          | ND                            | ND                   | ND                             | -                    | <u> </u>      |
| GP10                 | GP10-17            | Farallon      | 9/25/1999         | 17   | 0.13                                           | ND               | ND                          | ND                            | ND                   | ND                             |                      |               |
| GP11                 | GP11-7             | Farallon      | 9/25/1999         | 7    | 0.55                                           | ND               | ND                          | ND                            | ND                   | ND                             |                      |               |

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#### Table 3 Summary of Soil Analytical Results Former City Hand Laundry Property Bremerton, Washington Farallon PN: 603-001

| Sample<br>Location  |               | Sampled<br>By | Date<br>Sampled | Depth<br>(feet) <sup>1</sup> | Analytical Results (milligrams per kilogram) |                  |                             |                               |                      |                                |                      |                   |  |
|---------------------|---------------|---------------|-----------------|------------------------------|----------------------------------------------|------------------|-----------------------------|-------------------------------|----------------------|--------------------------------|----------------------|-------------------|--|
|                     | Sample Number |               |                 |                              | PCE <sup>2</sup>                             | TCE <sup>2</sup> | cis-1,2<br>DCE <sup>2</sup> | trans-1,2<br>DCE <sup>2</sup> | 1,1 DCE <sup>2</sup> | Vinyl<br>Chloride <sup>2</sup> | DRO/ORO <sup>3</sup> | BTEX <sup>4</sup> |  |
| 000 Site Inves      | stigation     |               |                 |                              |                                              |                  |                             |                               |                      |                                |                      |                   |  |
| MW-1                | MW1-2.5 -3.5  | Farallon      | 7/7/2000        | 2.5 - 3.5                    | 1.8                                          | ND               | ND                          | ND                            | ND                   | ND                             |                      | - 19 <u>1</u>     |  |
| MW-1                | MW1-35 - 35.5 | Farallon      | 7/7/2000        | 35 - 35. 5                   | 0.35                                         | ND               | ND                          | ND                            | ND                   | ND                             |                      |                   |  |
| MW-1                | MW1-45 - 45.5 | Farallon      | 7/7/2000        | 45 - 45.5                    | 0.21                                         | ND               | ND                          | ND                            | ND                   | ND                             |                      |                   |  |
| MW-2                | MW2-2.5 - 4   | Farallon      | 7/6/2000        | 2.5 - 4                      | 11.0                                         | ND               | ND                          | ND                            | ND                   | ND                             |                      |                   |  |
| MW-2                | MW2-10 - 11.5 | Farallon      | 7/6/2000        | 10 - 11.5                    | 6,900                                        | ND               | ND                          | ND                            | ND                   | ND                             | -                    |                   |  |
| MW-2                | MW2-17.5 - 19 | Farallon      | 7/6/2000        | 17.5 - 19                    | 0.65                                         | ND               | ND                          | ND                            | ND                   | ND                             |                      | ۲                 |  |
| MW-2                | MW2-30 - 31   | Farallon      | 7/6/2000        | 30 - 31                      | 0.43                                         | ND               | ND                          | ND                            | ND                   | ND                             |                      |                   |  |
| MW-2                | MW2-45-45.5   | Farallon      | 7/6/2000        | 45 - 45.5                    | 0.49                                         | ND               | ND                          | ND                            | ND                   | ND                             |                      |                   |  |
| MW-3                | MW3-7.5 - 9   | Farallon      | 7/5/2000        | 7.5-9                        |                                              |                  |                             |                               |                      |                                | ND                   |                   |  |
| MW-3                | MW3-12.5 - 14 | Farallon      | 7/5/2000        | 12.5 - 14                    | ND                                           | ND               | ND                          | ND                            | ND                   | ND                             | ( <b>-</b> )         | (A)               |  |
| MW-3                | MW3-45 - 45.5 | Farallon      | 7/5/2000        | 45 - 45.5                    | 0.14                                         | ND               | ND                          | ND                            | ND                   | ND                             | <u></u>              | 120               |  |
| VE-1                | VE1- 7.5 - 9  | Farallon      | 7/7/2000        | 7.5 - 9                      | 0.18                                         | ND               | ND                          | ND                            | ND                   | ND                             |                      |                   |  |
| VE-1                | VE1-15-16.5   | Farallon      | 7/7/2000        | 15 - 16.5                    | 0.13                                         | ND               | ND                          | ND                            | ND                   | ND                             |                      |                   |  |
| VE-2                | VE2- 5 - 6.5  | Farallon      | 7/6/2000        | 5-6.5                        | 230                                          | ND               | ND                          | ND                            | ND                   | ND                             |                      |                   |  |
| VE-2                | VE2-15-16.5   | Farallon      | 7/6/2000        | 15 - 16.5                    | 0.52                                         | ND               | ND                          | ND                            | ND                   | ND                             | •                    |                   |  |
| VE-3                | VE3-10-11.5   | Farallon      | 7/5/2000        | 10 -11.5                     | ND                                           | ND               | ND                          | ND                            | ND                   | ND                             | (                    |                   |  |
| VE-3                | VE3-20-21.5   | Farallon      | 7/5/2000        | 20 - 21.5                    | ND                                           | ND               | ND                          | ND                            | ND                   | ND                             | 2•X                  |                   |  |
| VE-4                | VE4-15 - 16.5 | Farallon      | 7/6/2000        | 15 - 16.5                    | 0.16                                         | ND               | ND                          | ND                            | ND                   | ND                             | 25                   |                   |  |
| VE-5                | VE5- 5 - 6.5  | Farallon      | 7/6/2000        | 5 - 6.5                      | 0.17                                         | ND               | ND                          | ND                            | ND                   | ND                             | 27                   |                   |  |
| VE-5                | VE5 - 15 - 16 | Farallon      | 7/6/2000        | 15 - 16                      | 0.97                                         | ND               | ND                          | ND                            | ND                   | ND                             |                      |                   |  |
| ITCA Cleanup Levels |               |               |                 | 0.055                        | 0.035                                        | 800 <sup>6</sup> | 1,600                       | 1.676                         | 0.667 <sup>6</sup>   | 2,000 <sup>5</sup>             | 0.03/7/6/9           |                   |  |

NOTES:

<sup>1</sup>Depth in feet below ground surface.

<sup>2</sup>Analyzed by United States Environmental Protection Agency (EPA) Method 8021B or 8260.

<sup>1</sup>Analyzed by Ecology-approved Method NWTPH-Dx.

<sup>4</sup>Analyzed by EPA Method 8020.

<sup>3</sup>Model Toxics Control Act (MTCA) Clanup Regulation Method A Cleanup Levels, Chapter 173-340 WAC. <sup>6</sup>MTCA Geanup Levels and Risk Calulations (CLARC) Standard Method B Cleanup Level Values.

Results in BOLD denote concentrations above MTCA cleanup levels,

- = not analyzed

DCE = dichlorocthene PCE = tetrachloroethene

TCE = trichlorocthese

ND = Not detected above laboratory practical quantitation limit

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#### Table 4 Summary of Groundwater Analytical Results Former City Hand Laundry Property Bremerton, Washington Farallon PN: 603-001

|                                      |                 | Analytical Results (micrograms per liter) |                |                 |                   |                        |                  |                   |                    |                                |  |
|--------------------------------------|-----------------|-------------------------------------------|----------------|-----------------|-------------------|------------------------|------------------|-------------------|--------------------|--------------------------------|--|
| Monitoring<br>Well<br>Identification | Date<br>Sampled | PCE                                       | TCE            | cis-1,2-DCE     | trans-1,2-<br>DCE | Trichlorofluoromethane | 1,1,1-TCA        | Chloroform        | GRO                | BTEX                           |  |
| MW-1                                 | 7/19/2000       | 560                                       | <10            | <10             | <10               | <10                    | <10              | <10               |                    | 2=                             |  |
|                                      | 04/25/03        | 1,600                                     | 5.6            | 8.1             | 0.87              | <0.20                  | <0.20            | 0.26              | 2                  | 25                             |  |
| MW-2                                 | 7/19/2000       | 1,100                                     | <10            | <10             | <10               | <10                    | <10              | <10               | -                  |                                |  |
|                                      | 04/25/03        | 3,700                                     | 3.0            | 1.0             | <0.20             | 0.27                   | 0.32             | 0.61              |                    | -                              |  |
| MW-3                                 | 7/19/2000       | 1,300                                     | <10            | <10             | <10               | <10                    | <10              | <10               | 1,000 <sup>1</sup> | <1.0                           |  |
|                                      | 04/25/03        | 3,100                                     | 2.2            | 0.42            | <0.20             | 0.33                   | 0.40             | 0.61              |                    |                                |  |
| MTCA Cleanup Level                   |                 | 5 <sup>2</sup>                            | 5 <sup>2</sup> | 80 <sup>3</sup> | 160 <sup>3</sup>  | 2,400 <sup>3</sup>     | 200 <sup>2</sup> | 7.17 <sup>3</sup> | 1,000 <sup>2</sup> | 5/1,000/700/1,000 <sup>2</sup> |  |

NOTES:

< denotes analyte not detected above the specified laboratory practical quantitation limit.

- indicates sample not analyzed

Results in BOLD denote concentrations above the specified MTCA cleanup level.

<sup>1</sup>Laboratory report indicates that chromatogram is not similar to a typical gasoline product.

<sup>2</sup>Washington State Department of Ecology (Ecology) Model Toxics Control Act MTCA),

WAC 173-340 WAC MTCA Method A cleanup level, as amended February 2001.

<sup>3</sup>Ecology Cleanup Levels and Risk Calculations (CLARC) Version 3.1, updated November 2001, MTCA Method B cleanup levels.

PCE = tetrachloroethene

TCE = trichloroethene

DCE = dichloroethene

1,1,1-TCA = 1,1,1-trichlopethane

GRO = Total petroleum hydroarbons as gasoline-ange organics BTEX = Benzene, toluene, chylbenzene, and total xylenes.

E:\Projects\603001 Land Title Building\Reports\SI SVE FS Pilot Test\Subsurface Investigation Tables.xlsTable 4

| Table 5                                                        |  |  |  |  |  |  |  |
|----------------------------------------------------------------|--|--|--|--|--|--|--|
| Summary of Soil Vapor Extraction Pilot Test Analytical Results |  |  |  |  |  |  |  |
| Former City Hand Laundry Property                              |  |  |  |  |  |  |  |
| Bremerton, Washington                                          |  |  |  |  |  |  |  |
| Farallon PN: 603-001                                           |  |  |  |  |  |  |  |

| Test<br>Location | C                | Dete              |                                             | Analy            | Analytical Results (ppmv) <sup>3</sup> |                             |                   |                  |                  |                             |                 |
|------------------|------------------|-------------------|---------------------------------------------|------------------|----------------------------------------|-----------------------------|-------------------|------------------|------------------|-----------------------------|-----------------|
|                  | Sample<br>Number | Date<br>Collected | Sample Time <sup>1</sup>                    | PCE <sup>4</sup> | TCE <sup>4</sup>                       | cis-1,2<br>DCE <sup>4</sup> | VC <sup>4</sup>   | PCE <sup>4</sup> | TCE <sup>4</sup> | cis-1,2<br>DCE <sup>4</sup> | VC <sup>4</sup> |
| Well VE-1        | VE1-EFF-1        | 8/15/2000         | Initial Sample @ 20 Minutes                 | 2,300            | 25                                     | 29                          | <1.0 <sup>5</sup> | 339              | 5                | 7                           | <0.39           |
| Well VE-1        | VE1-EFF-2        | 8/15/2000         | Final Sample @ 155 Minutes                  | 5,300            | <100                                   | <100                        | <100              | 782              | <19              | <25                         | <39             |
| Well VE-2        | VE2-EFF-1        | 8/15/2000         | Initial Sample @ 5 Minutes                  | 7,800            | <100                                   | <100                        | <100              | 1,150            | <19              | <25                         | <39             |
| Well VE-2        | VE2-EFF-2        | 8/15/2000         | Final Sample @ 125 Minutes                  | 9,500            | <100                                   | <100                        | <100              | 1,401            | <19              | <25                         | <39             |
| Well VE-3        | VE3-EFF-1        | 8/15/2000         | Initial Sample @ 10 Minutes                 | 7,300            | <100                                   | <100                        | <100              | 1,077            | <19              | <25                         | <39             |
| Well VE-3        | VE3-EFF-2        | 8/15/2000         | Final Sample @ 120 Minutes                  | 10,000           | <100                                   | <100                        | <100              | 1,475            | <19              | <25                         | <39             |
| Well VE-3        | VE3-EFF-4        | 8/15/2000         | Final Sample (Maximum Vacuum) @ 150 Minutes | 8,000            | <100                                   | <100                        | <100              | 1,180            | <19              | <25                         | <39             |

NOTES

<sup>1</sup>Refers to time since initiating the soil vapor test at test location

<sup>2</sup>Results presented as micrograms per liter (µg/l)

<sup>3</sup>ppmv = parts per million volume concentrations equivalent to microliters per liter (µl/l)

<sup>4</sup>Analyzed by U.S. Environmental Protection Agency Method 8260B

 $^{3}$  < 1.0 = Not detected above the laboratory reporting limits shown

PCE = Tetrachloroethene TCE = Trichloroethene cis-1,2 DCE = cis-1,2-Dichloroethene VC = Vinyl Chloride

E:\Projects\603001 Land Title Building\Reports\SI SVE FS Pilot Test\Subsurface Investigation Tables.xlsTable 5

#### Table 6 Summary of Soil Vapor Extraction Pilot Testing Results For Well VE-1 Former City Hand Laundry Property Bremerton, Washington Farallon PN: 603-001

| Sample                         |                                      | Obse                     |                          |                          |                          |              |                                    |                                    |
|--------------------------------|--------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------|------------------------------------|------------------------------------|
| Time<br>(Minutes) <sup>1</sup> | VE-1<br>Distance = 0 ft <sup>2</sup> | VE-2<br>Distance = 26 ft | VE-3<br>Distance = 63 ft | VE-4<br>Distance = 55 ft | VE-5<br>Distance = 24 ft | PID<br>Units | Total HVOCs<br>(µg/l) <sup>3</sup> | Total HVOCs<br>(ppmv) <sup>4</sup> |
| 20                             | 15                                   | 1.1                      | 0.3                      | 0.34                     | 2.2                      | 1,110        | 2,354                              | 351                                |
| 40                             | 17                                   | 1.1                      | 0.36                     | 0.39                     | 2.3                      | 1,390        | NS <sup>5</sup>                    | NS                                 |
| 70                             | 17                                   | 1.1                      | 0.35                     | 0.37                     | 2.2                      | 1,461        | NS                                 | NS                                 |
| 105                            | 16                                   | 1.1                      | 0.34                     | 0.35                     | 2.3                      | 1,487        | NS                                 | NS                                 |
| 130                            | 16                                   | 1.1                      | 0.37                     | 0.34                     | 2.3                      | 1,478        | NS                                 | NS                                 |
| 155                            | 16                                   | 1.2                      | 0.35                     | 0.37                     | 2.3                      | 1,467        | 5,300                              | 782                                |
| Average Value                  | 16                                   | 1.1                      | 0.35                     | 0.36                     | 2.3                      |              |                                    |                                    |
| Observed Vacuum/Ap             | plied Vacuum Ratio                   | 0.07                     | 0.02                     | 0.02                     | 0.14                     | ]            |                                    |                                    |

#### NOTES:

<sup>1</sup>Sample time refers to number of minutes following initiation of the pilot test

HVOCs = halogenated volatile organic compounds

<sup>2</sup>Distance refers to distance from the pilot test well in feet

 $^{3}$ Results presented as micrograms per liter (  $\mu g/l$ ); derived from Table 5 HVOC data

<sup>4</sup>ppmv = parts per million volume concentrations equivalent to microliters per liter ( µl/l); derived from Table 5 HVOC data

<sup>5</sup>Not sampled. No sample was collected at this time in the pilot test

#### Table 7

#### Summary of Soil Vapor Extraction Pilot Testing Results for Well VE-2 Former City Hand Laundry Property Bremerton, Washington Farallon PN: 603-001

| Sample                 |                             | Observed V       |                  |                  |                  |         |                     |                     |
|------------------------|-----------------------------|------------------|------------------|------------------|------------------|---------|---------------------|---------------------|
| Time                   | VE-2                        | VE-1             | VE-3             | <b>VE-4</b>      | VE-5             | PID     | <b>Total HVOCs</b>  | Total HVOCs         |
| (Minutes) <sup>1</sup> | Distance = $0 \text{ ft}^2$ | Distance = 26 ft | Distance = 70 ft | Distance = 65 ft | Distance = 15 ft | Units   | (µg/l) <sup>3</sup> | (ppmv) <sup>4</sup> |
| 5                      | 34                          | 2.1              | 0.16             | 0.13             | 10.0             | 1,866   | 7,800               | 1,150               |
| 35                     | 35                          | 2.0              | 0.24             | 0.19             | 10.0             | > 2,000 | NS <sup>5</sup>     | NS                  |
| 65 -                   | 34                          | 1.9              | 0.22             | 0.20             | 9.5              | > 2,000 | NS                  | NS                  |
| 95                     | 33                          | 1.9              | 0.19             | 0.16             | 9.0              | > 2,000 | NS                  | NS                  |
| 125                    | 33                          | 2.0              | 0.22             | 0.20             | 9.0              | >2,000  | 9,500               | 1,401               |
| Average Value          | 34                          | 1.97             | 0.20             | 0.18             | 9.5              |         |                     |                     |
| Observed Vacuum/A      | pplied Vacuum Ratio         | 0.058            | 0.006            | 0.005            | 0.28             |         |                     |                     |

NOTES:

<sup>1</sup>Sample time refers to number of minutes following initiation of the pilot test

HVOCs = halogenated volatile organic compounds

<sup>2</sup>Distance refers to distance from the pilot test well in feet

 $^3$  Results presented as micrograms per liter (  $\mu$ g/l); derived from Table 5 HVOC data

<sup>4</sup> ppmv = parts per million volume concentrations equivalent to microliters per liter ( μl/l); derived from Table 5 HVOC data

<sup>5</sup>Not sampled. No sample was collected at this time in the pilot test

# Table 8Summary of Soil Vapor Extraction Pilot Testing Results for Well VE-3Former City Hand Laundry PropertyBremerton, WashingtonFarallon PN: 603-001

| Sample                 |                             | Observed V       |                  | 2                |                  |         |                     |                     |
|------------------------|-----------------------------|------------------|------------------|------------------|------------------|---------|---------------------|---------------------|
| Time                   | VE-3                        | VE-1             | VE-2             | VE-4             | VE-5             | PID     | Total HVOCs         | Total HVOCs         |
| (Minutes) <sup>1</sup> | Distance = $0 \text{ ft}^2$ | Distance = 58 ft | Distance = 70 ft | Distance = 18 ft | Distance = 55 ft | Units   | (µg/l) <sup>3</sup> | (ppmv) <sup>4</sup> |
| 10                     | 16                          | 0.28             | 0.13             | 1.6              | 0.27             | > 2,000 | 7,300               | 1,077               |
| 40                     | 17                          | 0.28             | 0.12             | 1.5              | 0.25             | > 2,000 | NS <sup>5</sup>     | NS                  |
| 65                     | 17                          | 0.27             | 0.11             | 1.4              | 0.26             | > 2,000 | NS                  | NS                  |
| 90                     | 17                          | 0.23             | 0.11             | 1.3              | 0.24             | > 2,000 | NS                  | NS                  |
| 120                    | 18                          | 0.23             | 0.08             | 1.3              | 0.22             | > 2,000 | 10,000              | 1,475               |
| Average Value          | 17                          | 0.26             | 0.11             | 1.4              | 0.25             |         |                     |                     |
| Observed Vacuum/A      | Applied Vacuum Ratio        | 0.015            | 0.006            | 0.082            | 0.015            | ÷ ;     | 95                  |                     |

#### Supplemental test at increased applied vacuum of 34 inches of water.

| 120               | 34                   | 0.23  | 0.08  | 1.3   | 0.22  | > 2,000 | 10,000 | 1,475 |
|-------------------|----------------------|-------|-------|-------|-------|---------|--------|-------|
| 155               | 34                   | 0.34  | 0.15  | 2.4   | 0.37  | > 2,000 | NS     | NS    |
| 170               | 34                   | 0.42  | 0.16  | 2.6   | 0.44  | > 2,000 | 8,000  | 1,180 |
| Average Value     | 34                   | 0.33  | 0.13  | 2.08  | 0.34  | (i      |        |       |
| Observed Vacuum/A | Applied Vacuum Ratio | 0.010 | 0.004 | 0.061 | 0.010 |         |        |       |

#### NOTES:

<sup>1</sup>Sample time refers to number of minutes following initiation of the pilot test

HVOCs = halogenated volatile organic compounds

<sup>2</sup>Distance refers to distance from the pilot test well in feet

<sup>3</sup>Results presented as micrograms per liter ( µg/l); derived from Table 5 HVOC data

<sup>4</sup>ppmv = parts per million volume concentrations equivalent to microliters per liter ( µl/l); derived from Table 5 HVOC data

<sup>5</sup>Not sampled. No sample was collected at this time in the pilot test

Table 9Discharge Calcuations for Tetrachlorethene<br/>Soil Vapor Extraction Pilot Test<br/>Former City Hand Laundry Property<br/>Bremerton, Washington<br/>Farallon PN: 603-001

| CALCULATION OF HALOGE                            | NATED VOLATI                                        | LE ORGAN                        | NIC COMP      | OUND DIS                  | CHARGE             | AS PCE                     |                            |                               |                                |
|--------------------------------------------------|-----------------------------------------------------|---------------------------------|---------------|---------------------------|--------------------|----------------------------|----------------------------|-------------------------------|--------------------------------|
| Source <sup>1</sup><br>VE-1                      | Average PCE<br>Concentration<br>(ppmv) <sup>2</sup> | Accuracy<br>Factor <sup>3</sup> | Flow<br>(cfm) | Air<br>Density<br>(lb/cf) | Minutes<br>per Day | PCE<br>Molecular<br>Weight | Air<br>Molecular<br>Weight | Emissions<br>(Pounds per day) | Emissions<br>(Pounds per year) |
| Blower Discharge @ 28 cfm <sup>4</sup>           | 561                                                 | 1.25                            | 28            | 0.0748                    | 1,440              | 165.83                     | 28.96                      | 12.11                         | 4,420.31                       |
| Source <sup>1</sup><br>VE-2                      | Average PCE<br>Concentration<br>(ppmv) <sup>2</sup> | Accuracy<br>Factor <sup>3</sup> | Flow<br>(cfm) | Air<br>Density<br>(lb/cf) | Minutes<br>per Day | PCE<br>Molecular<br>Weight | Air<br>Molecular<br>Weight | Emissions<br>(Pounds per day) | Emissions<br>(Pounds per year) |
| Blower Discharge @ 56 cfm <sup>4</sup>           | 1,276                                               | 1.25                            | 56            | 0.0748                    | 1,440              | 165.83                     | 28.96                      | 55.09                         | 20,108.06                      |
| Source <sup>1</sup><br>VE-3                      | Average PCE<br>Concentration<br>(ppmv) <sup>2</sup> | Accuracy<br>Factor <sup>3</sup> | Flow<br>(cfm) | Air<br>Density<br>(lb/cf) | Minutes<br>per Day | PCE<br>Molecular<br>Weight | Air<br>Molecular<br>Weight | Emissions<br>(Pounds per day) | Emissions<br>(Pounds per year) |
| Blower Discharge @ 28 cfm <sup>4</sup>           | 1,276                                               | 1.25                            | 28            | 0.0748                    | 1,440              | 165.83                     | 28.96                      | 27.55                         | 10,054.03                      |
| ESTIMATED AVERAGE DISC<br>ESTIMATED AVERAGE DISC | <u>19.83</u><br>55.09                               | 7,237.17<br>20,108.06           |               |                           |                    |                            |                            |                               |                                |

NOTES:

<sup>1</sup>Source is the designated vapor extraction test well (VE-1, VE-2, or VE-3)

<sup>2</sup>ppmv = parts per million volume concentrations equivalent to microliters per liter ( $\mu$ l/l)

 $^{3}$ Accuracy Factor = Relative reliability of analytical results. Values >1.00 indicate lower reliability. The value 1.00 is 100% reliability.

Accuracy factor of 1.25 is estimated for sampling method.

<sup>4</sup>Blower discharge based on field measurements and manufacturer's performance data for a Rotron DR 404 Model Regenerative Blower.

<sup>5</sup>Based on the following calculation:

ppmv x accuracy factor x flow (cfm) x air density (lb/cf) x minutes/day x PCE molecular weight

air molecular weight x 1,000,000

= discharge as pounds per day (lbs/day)

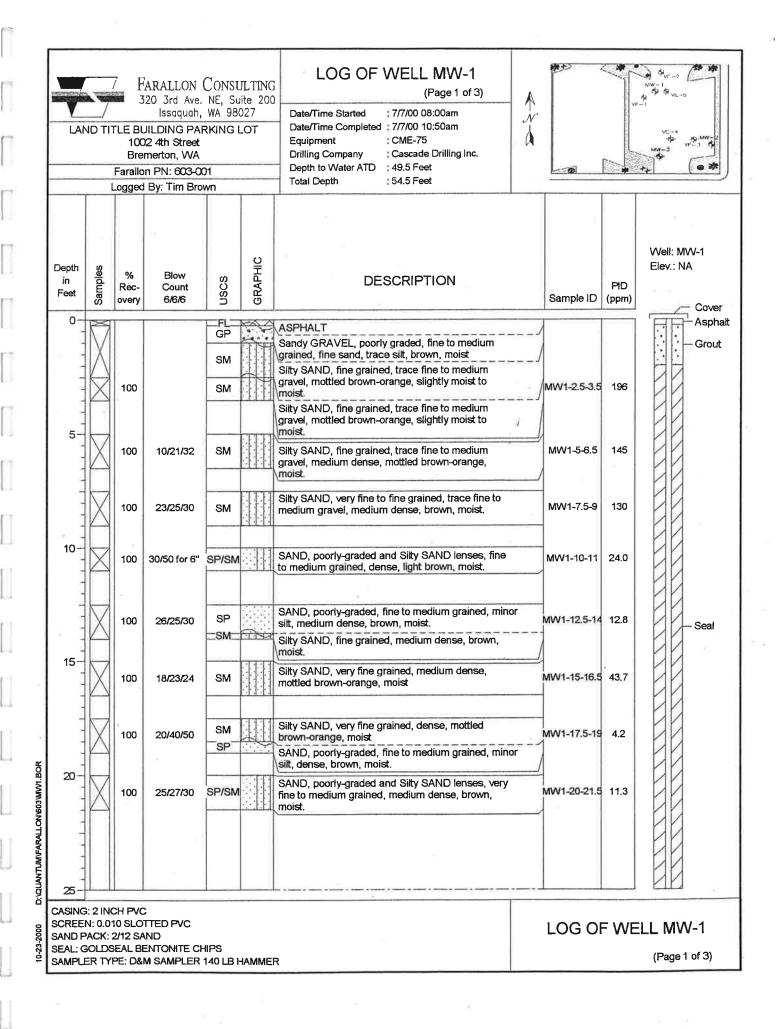
discharge as pounds per year (lbs/year) = 365 x (lbs/day)

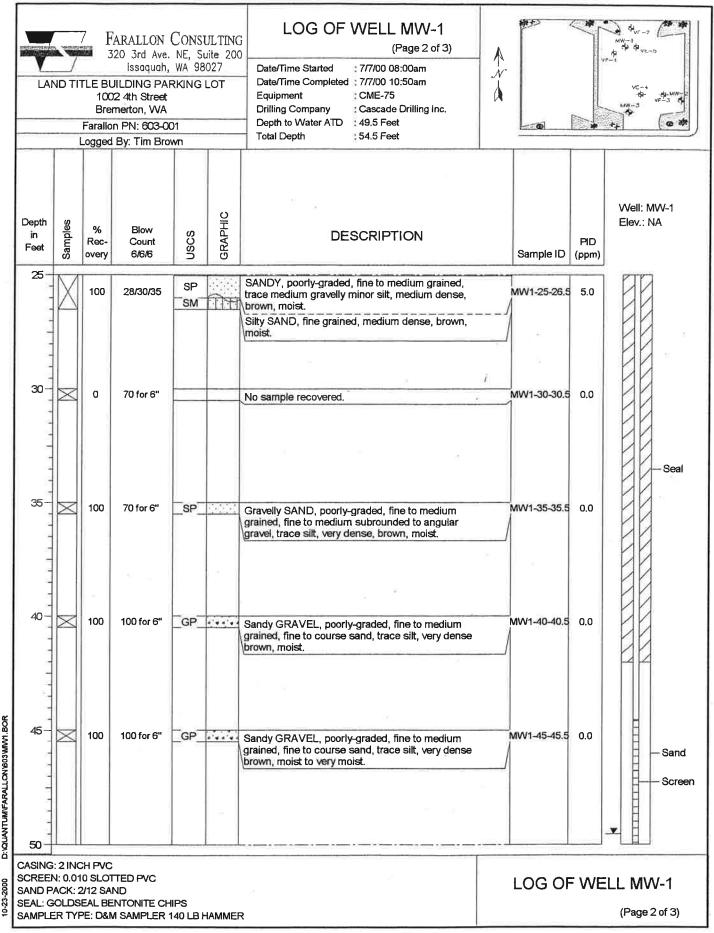
<sup>4</sup>cfm = cubic feet per minute <sup>5</sup>lb/cf = pounds per cubic foot PCE = tetracholorethene

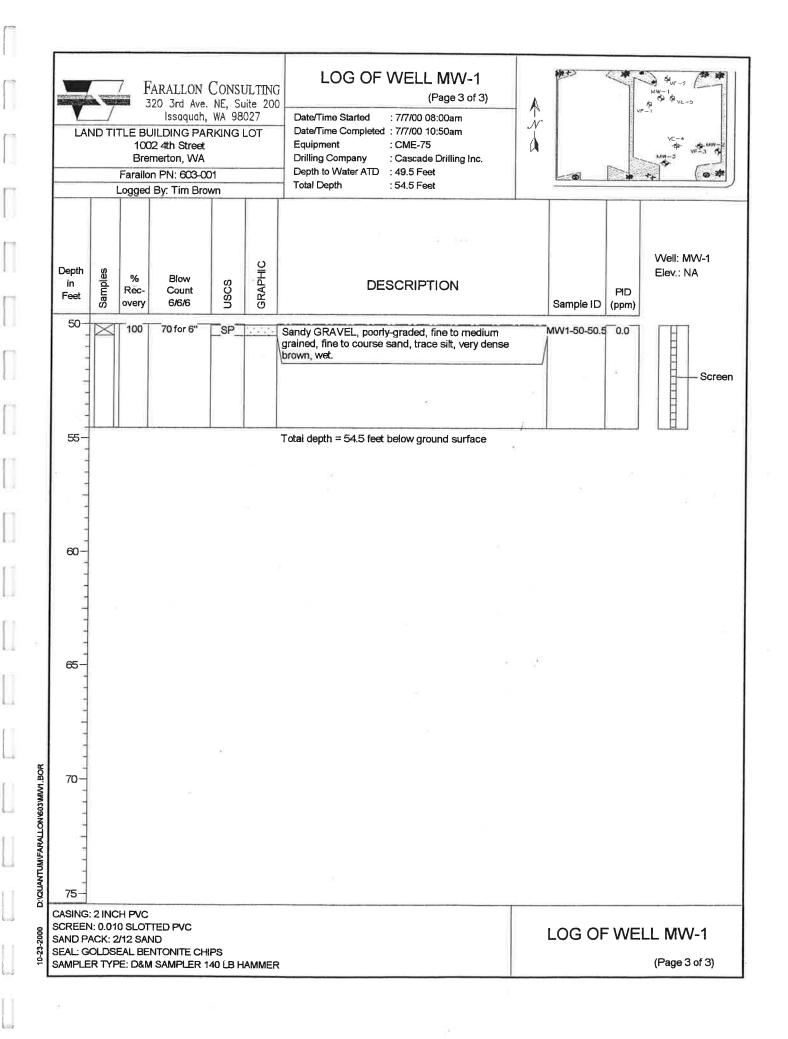
# APPENDIX A BORING LOGS

Subsurface Investigation and Soil Vapor Extraction Feasibility Pilot Test Former City Hand Laundry 1002 4th Street Bremerton, Washington

Farallon PN: 603-001







| LAN                 |                            | TLE BU<br>100<br>Bre<br>Farallo | ARALLON<br>320 Jrd Ave<br>Issaquah<br>JILDING PA<br>22 4th Street<br>merton, WA<br>on PN: 603-0<br>I By: Tim Bra | 9. NE, S<br>, WA 98<br>RKING<br>2001 | uite 20<br>8027 |                                                                                                                                                                                                                                                                                                      |                 |              | VE + + + + + + + + + + + + + + + + + + + |
|---------------------|----------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------|------------------------------------------|
| Depth<br>în<br>Feet | Samples                    | %<br>Rec-<br>overy              | Blow<br>Count<br>6/6/6                                                                                           | Uscs                                 | GRAPHIC         | DESCRIPTION                                                                                                                                                                                                                                                                                          | Sample ID       | PID<br>(ppm) | Well: MW-2<br>Elev.: NA                  |
| 0<br>               | X                          | 100                             | 4/4/4                                                                                                            | FL<br>GP<br>SM<br>SM                 |                 | ASPHALT<br>Sandy GRAVEL, poorly-graded, fine to medium grained,<br>fine sand, trace silt, brown, moist.<br>Silty SAND, fine grained, trace medium gravel, brown,<br>slightly moist.<br>Silty SAND, fine grained, trace fine to medium gravel, <i>j</i><br>very loose, brown, moist, sweet-like odor. | <br><br>        | 628          | Asj                                      |
| 5                   | X                          | 100                             | 6/5/10                                                                                                           | SM                                   |                 | Silty SAND, fine grained, trace fine to medium gravel,<br>oose, brown, moist.                                                                                                                                                                                                                        | MW2-5-6.5       | 2000+        |                                          |
|                     | X                          | 100                             | 12/19/30                                                                                                         | SM                                   |                 | Silty SAND, very fine grained, trace fine to medium gravel, medium dense, brown, moist.                                                                                                                                                                                                              | MW2-7.5-9       | 2000+        |                                          |
| 10—<br>-<br>-       | X                          | 100                             | 15/15/25                                                                                                         | ML                                   |                 | SILT, minor clay, trace fine sand, very stiff, brown, noist, cohesive.                                                                                                                                                                                                                               | <br>MW2-10-11.5 | 2000+        |                                          |
|                     | X                          | 100                             | 25/30/25                                                                                                         | SP                                   |                 | SAND, poorly-graded, fine to medium grained, minor silt, nedium dense, light brown, moist.                                                                                                                                                                                                           | MW2-12.5-14     | 54.0         | -Sea                                     |
| 15<br>-<br>-        | X                          | 100                             | 15/18/20                                                                                                         | SM                                   |                 | Silty SAND, very fine grained, trace fine to medium<br>gravel, medium dense, brown, moist.                                                                                                                                                                                                           | MW2-15-16.5     | 51.7         |                                          |
|                     | X                          | 100                             | 20/40/50                                                                                                         | SP                                   |                 | SAND, poorly-graded, fine to medium grained, minor silt,<br>lense, brown, moist.                                                                                                                                                                                                                     | <br>MW2-17.5-19 | 280          |                                          |
| 20                  | X                          | 100                             | 20/25/33                                                                                                         | SP                                   | r<br>S          | SAND, poorly-graded, fine to medium grained, minor silt,<br>nedium dense, brown, moist.                                                                                                                                                                                                              | MW2-20-21.5     | 180          |                                          |
|                     |                            |                                 |                                                                                                                  |                                      |                 |                                                                                                                                                                                                                                                                                                      |                 |              |                                          |
| SAND PA<br>SEAL: G  | 1: 0.01<br>ACK: 2<br>DLDSI | 0 SLOT<br>/12 SAI<br>EAL BE     | TED PVC                                                                                                          |                                      |                 |                                                                                                                                                                                                                                                                                                      | LOG OF          |              | MW-2<br>Page 1 of 3)                     |

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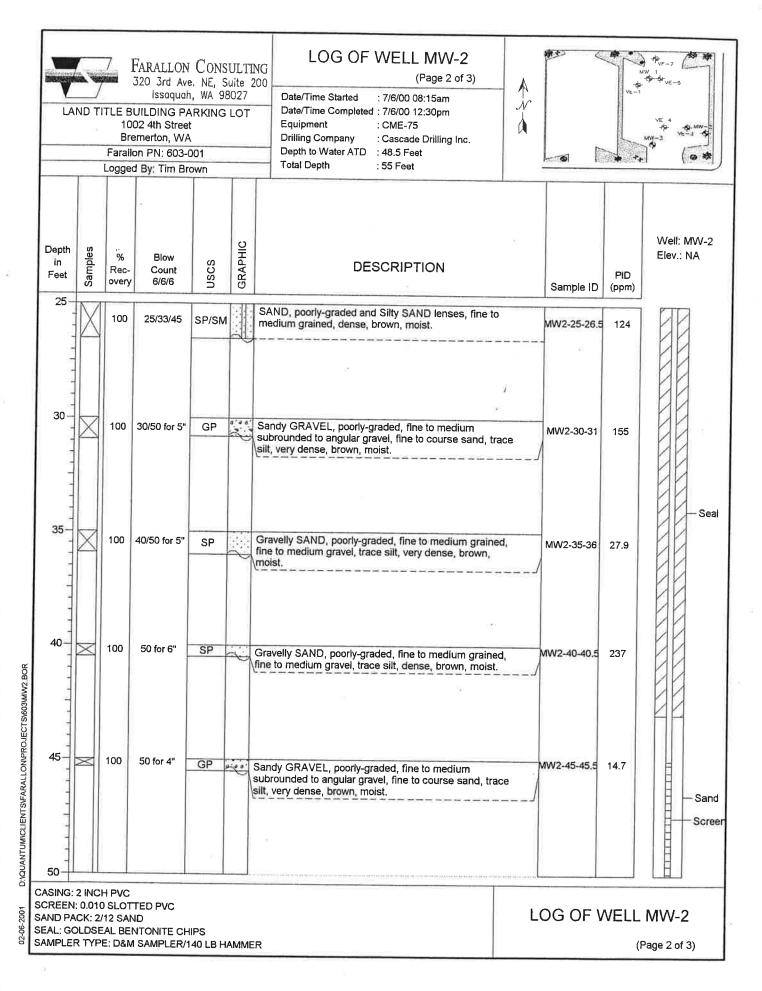
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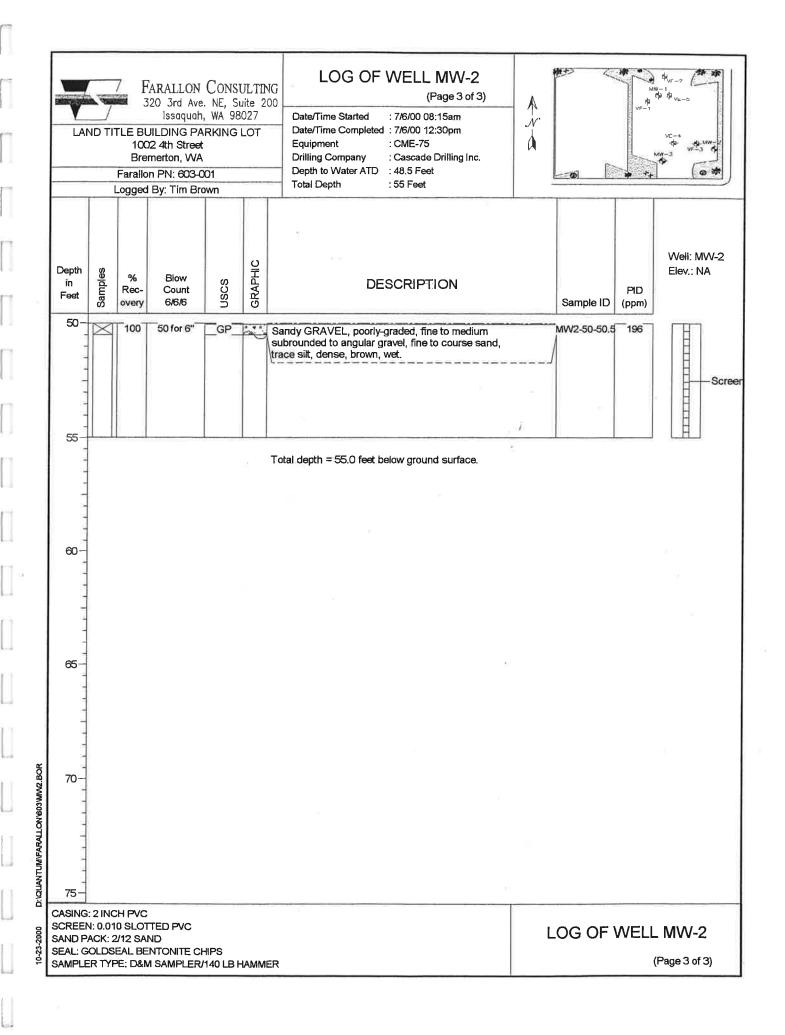
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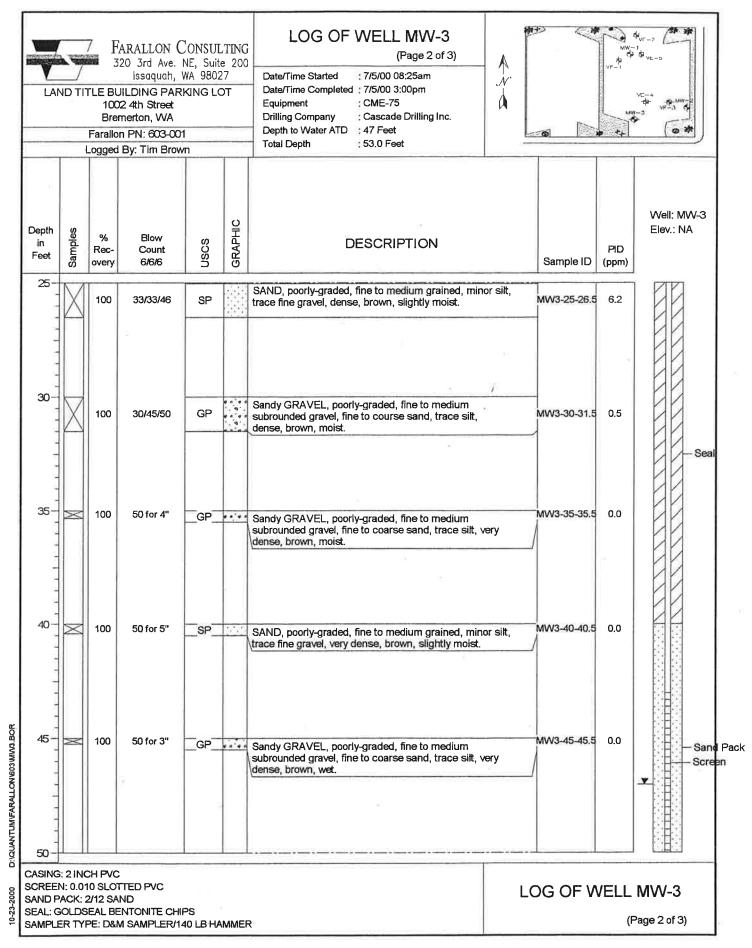


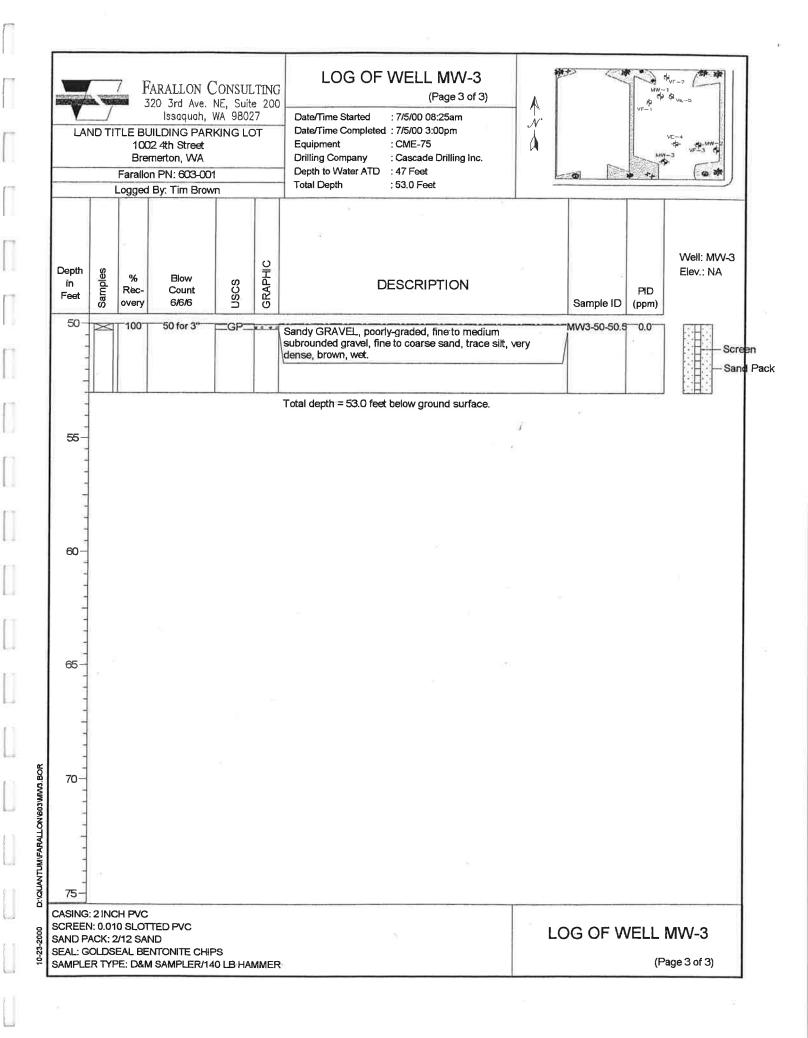
| LAND TITLE BUILDING PARKING LOT<br>1002 4th Street<br>Bremerton, WA<br>Farallon PN: 603-001<br>Logged By: Tim Brown |         |                    | (ING LC                |          | Date/Time Started       : 7/5/00 08:25am         Date/Time Completed       : 7/5/00 3:00pm         Equipment       : CME-75         Drilling Company       : Cascade Drilling Inc.         Depth to Water ATD       : 47 Feet         Total Depth       : 53.0 Feet | <b>6</b>                                                                                                                                                     |                        |              |                         |
|---------------------------------------------------------------------------------------------------------------------|---------|--------------------|------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|-------------------------|
| Depth<br>in<br>Feet                                                                                                 | Samples | %<br>Rec-<br>overy | Blow<br>Count<br>6/6/6 | uscs     | GRAPHIC                                                                                                                                                                                                                                                             | DESCRIPTION                                                                                                                                                  | Sample ID              | PID<br>(ppm) | Well: MW-3<br>Elev.: NA |
| 0                                                                                                                   | X       |                    |                        | FL<br>SM | Ň                                                                                                                                                                                                                                                                   | ASPHALT<br>Silty SAND, very fine grained, trace fine to medium<br>gravel, brown, slightly moist.                                                             |                        |              | As                      |
| 1.0.0                                                                                                               |         | 100                | 8/10/15                | SM       |                                                                                                                                                                                                                                                                     | Silty SAND, very fine grained, trace fine to medium gravel, loose, brown, slightly moist.                                                                    | MW3-2.5-4              | 1.6          |                         |
| 5-                                                                                                                  |         | 100                | 15/15/20               | SM       |                                                                                                                                                                                                                                                                     | Silty SAND, very fine grained, trace fine to medium gravel, medium dense, brown, slightly moist.                                                             | <br>MW3-5-6.5          | 19.7         |                         |
| 1111                                                                                                                | X       | 100                | 8/15/42                | SM       |                                                                                                                                                                                                                                                                     | Silty SAND, fine to medium grained, trace fine to medium gravel, medium dense, brown, slightly moist.                                                        | MW3-7.5-9              | 28.0         |                         |
| 10                                                                                                                  | X       | 100                | 20/27/32               | SP       |                                                                                                                                                                                                                                                                     | SAND, poorly-graded, fine to medium grained, minor silt, medium dense, brown, slightly moist.                                                                | MW3-10-11.5            | 13.3         |                         |
|                                                                                                                     | X       | 100                | 20/30/30               | SP<br>SM | ÎĦ                                                                                                                                                                                                                                                                  | SAND, poorly-graded, fine to medium grained, minor silt,<br>medium dense, brown, slightly moist.<br>Silty SAND, fine to medium grained, trace fine to medium | MW3-12.5-14            | 17.5         | Set                     |
| 15_                                                                                                                 | X       | 100                | 15/23/30               | SM       |                                                                                                                                                                                                                                                                     | gravel, dense, brown, slightly moist.<br>Silty SAND, fine to medium grained, trace fine to medium<br>gravel, medium dense, brown, slightly moist.            | <br>MW3-15-16.5        | 14.0         |                         |
|                                                                                                                     | X       | 100                | 30/45/50 for 4"        | SP       |                                                                                                                                                                                                                                                                     | SAND, poorly-graded, fine to medium grained, minor silt, very dense, brown, slightly moist.                                                                  | -<br>MW32-17.5-19<br>- | 2.3          |                         |
| 20-                                                                                                                 | X       | 100                | 23/23/30               | SP       |                                                                                                                                                                                                                                                                     | SAND, poorly-graded, fine to medium grained, minor silt, medium dense, brown, slightly moist.                                                                | <br>MW2-20-21.5<br>    | 7.2          |                         |
|                                                                                                                     |         | 100                | 30/50/50               | SP       |                                                                                                                                                                                                                                                                     | SAND, poorly-graded, fine to medium grained, minor silt, dense, brown, slightly moist.                                                                       | MW3-22.5-24            | 8.3          |                         |
| 25-                                                                                                                 | : 2 INC |                    |                        |          |                                                                                                                                                                                                                                                                     |                                                                                                                                                              |                        |              | 00                      |

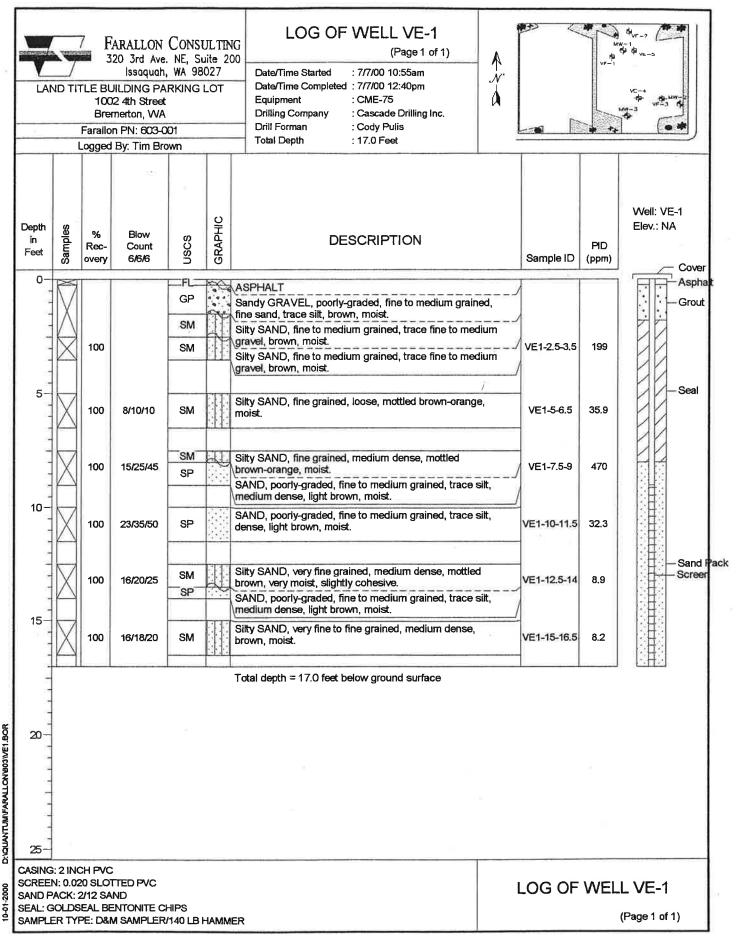
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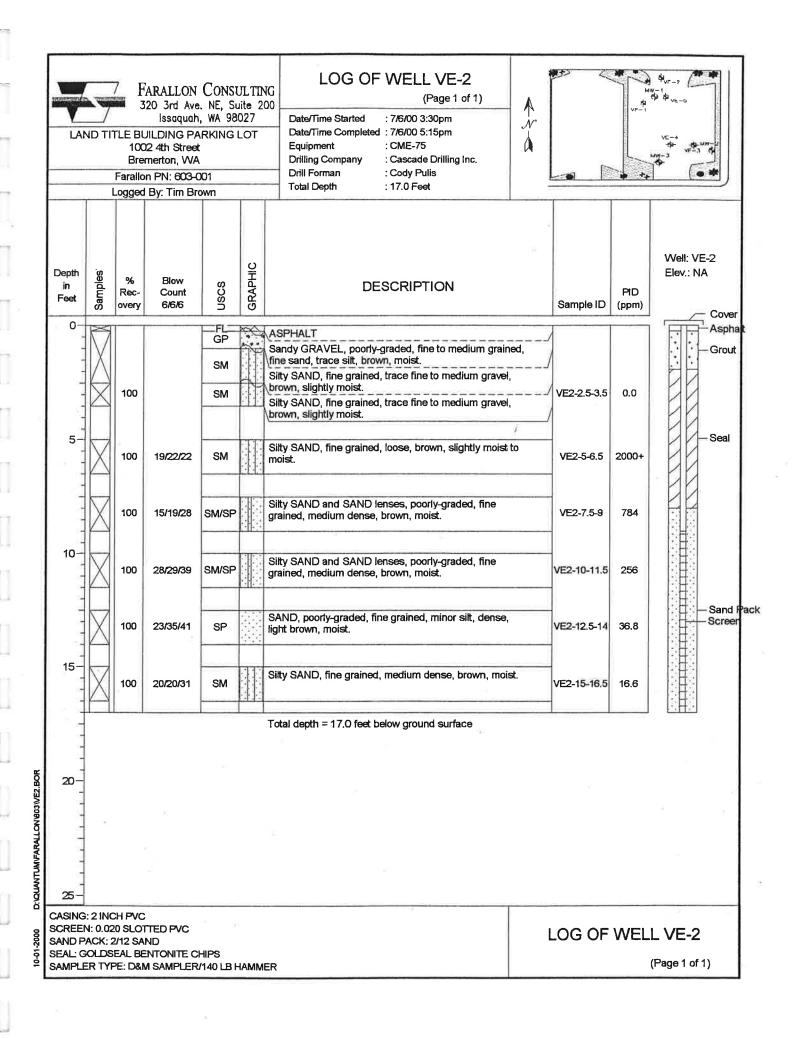
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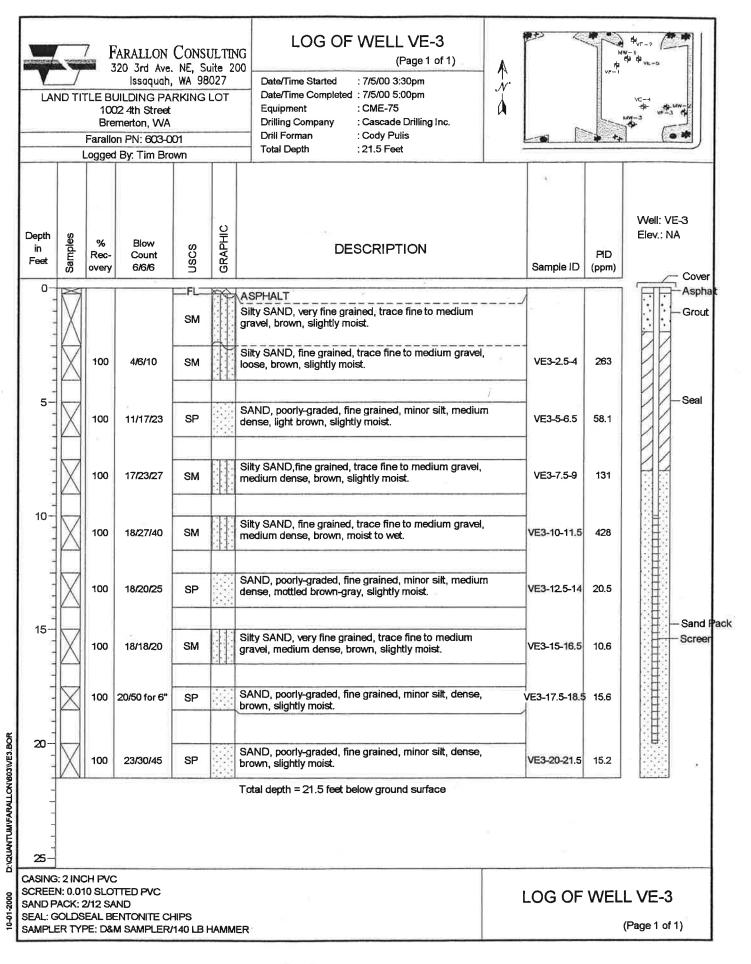
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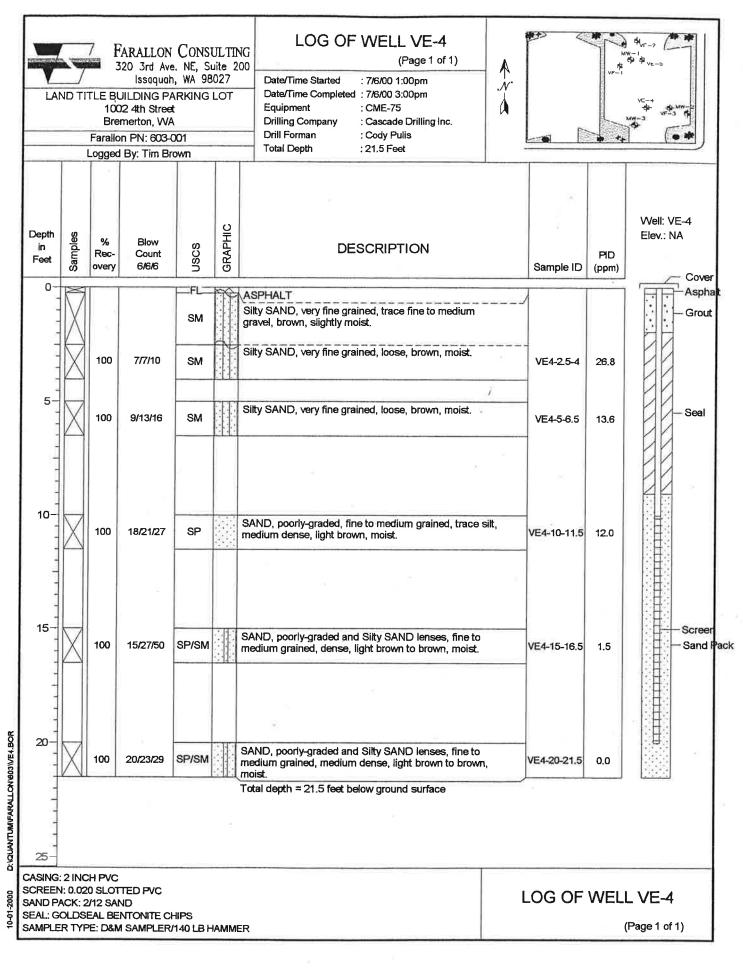












|                                      | FARALLON CONSULTING<br>320 3rd Ave. NE, Suite 200<br>Issaquah, WA 98027         LAND TITLE BUILDING PARKING LOT<br>1002 4th Street<br>Bremerton, WA         Farallon PN: 603-001         Logged By: Tim Brown |                                        |                        |                      |                                          | (Page 1 of 1)<br>Date/Time Started : 7/6/00 5:30pm<br>Date/Time Completed : 7/6/00 7:00pm<br>Equipment : CME-75 (<br>Drilling Company : Cascade Drilling Inc.<br>Drill Forman : Cody Pulis<br>Total Depth : 16.8 Feet                                                                                                                        |             |              |                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------|----------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|-------------------------|
| Depth<br>in<br>Feet                  | Samples                                                                                                                                                                                                       | %<br>Rec-<br>overy                     | Blow<br>Count<br>6/6/6 | USCS                 | GRAPHIC                                  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                  | Sample ID   | PID<br>(ppm) | Well: VE-5<br>Elev.: NA |
| 0                                    |                                                                                                                                                                                                               | 100                                    | 12/17/30               | FL<br>GP<br>SM<br>SM | Si S | SPHALT<br>andy GRAVEL, poorly-graded, fine to medium grained,<br>ne sand, trace silt, brown, moist<br>ity SAND, very fine to fine grained, trace fine to mediun<br>avel, mottled brown-orange, slightly moist to moist.<br>ity SAND, very fine to fine grained, trace fine to medjun<br>avel, mottled brown-orange, slightly moist to moist. | VE5 25 35   | 28.3         | Asph                    |
| 10-                                  |                                                                                                                                                                                                               | 100                                    | 21/30/40               | SP                   | S/                                       | own-orange, moist.<br>AND, poorly-graded, fine to medium grained, trace silt,<br>edium dense, light brown, moist.                                                                                                                                                                                                                            | VE5-10-11.5 |              |                         |
| -<br>-<br>-<br>-<br>-<br>-<br>-<br>- | X                                                                                                                                                                                                             | 100                                    | 27/50 for 6*           | SM                   | -[-[-]                                   | ty SAND, very fine grained, dense, brown, moist.<br>tal depth = 16.5 feet below ground surface                                                                                                                                                                                                                                               | VE5-15-16   | 2.6          | Scree                   |
| 20                                   |                                                                                                                                                                                                               |                                        |                        |                      |                                          |                                                                                                                                                                                                                                                                                                                                              |             |              |                         |
| CASING:<br>SCREEN<br>SAND PA         | I: 0.02<br>ACK: 2<br>OLDS                                                                                                                                                                                     | ) SLO <sup>-</sup><br>/12 SA<br>EAL BE | TED PVC                |                      |                                          |                                                                                                                                                                                                                                                                                                                                              | LOG OF      |              | L VE-5<br>(Page 1 of 1) |

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# **APPENDIX B**

## LABORATORY ANALYTICAL REPORTS

Subsurface Investigation and Soil Vapor Extraction Feasibility Pilot Test Former City Hand Laundry 1002 4th Street Bremerton, Washington

Farallon PN: 603-001

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July 26, 2000

Jeff Kaspar Farallon Consulting, LLC 320 3<sup>rd</sup> Avenue NE, Suite 200 Issaquah, WA 98027

Re: Analytical Data for Project 603-001 Laboratory Reference No. 0007-041

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on July 10, 2000.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

#### NWTPH-Dx

| Date Extracted:<br>Date Analyzed: | 7-12-00<br>7-12-00  |             |
|-----------------------------------|---------------------|-------------|
| Matrix:<br>Units:                 | Soil<br>mg/Kg (ppm) |             |
| Client ID:                        | MW3-7.5-9           | MW3-12.5-14 |
| Lab ID:                           | 07-041-03           | 07-041-05   |
| Diesel Fuel:                      | ND                  | ND          |
| PQL:                              | 28                  | 33          |
| Heavy Oil:                        | ND                  | ND          |
| PQL:                              | 56                  | 66          |
| Surrogate Recovery:               |                     |             |

|                                   | i komuli i shikken shiji shi ilimbakin |                                          |
|-----------------------------------|----------------------------------------|------------------------------------------|
| o-Terphenyl                       | 96%                                    | 74%                                      |
| 김 씨는 그는 것 것 가지 않는 것이 있었다. 가지 않는 것 | A 28 C A 40 C A 40 C A 40 C            | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 |

Flags:

#### NWTPH-Dx METHOD BLANK QUALITY CONTROL

3

| Date | Extracted: | 7-12-00 |
|------|------------|---------|
| Date | Analyzed:  | 7-12-00 |

Matrix: Soil Units: mg/Kg (ppm)

Lab ID: MB0712S1

Diesel Fuel: ND PQL: 25

Heavy Oil: ND PQL: 50

Surrogate Recovery: o-Terphenyl 82%

Flags:

#### NWTPH-Dx DUPLICATE QUALITY CONTROL

4

| Date Extracted: | 1  | 7-12-00 |
|-----------------|----|---------|
| Date Analyzed:  | ÷. | 7-12-00 |

Matrix: Soil Units: mg/Kg (ppm)

| Lab ID:      | 07-041-03 | 07-041-03 DUP |
|--------------|-----------|---------------|
|              |           |               |
| Diesel Fuel: | ND        | ND            |
| PQL:         | 25        | 25            |
| RPD:         | N/A       |               |

Surrogate Recovery: o-Terphenyl 96% 64%

Flags:

### HALOGENATED VOLATILES by EPA 8260B page 1 of 2

| Date Extracted: | 7-19-00     |
|-----------------|-------------|
| Date Analyzed:  | 7-19-00     |
| 5 T             |             |
| Matrix:         | Soil        |
| Units:          | mg/Kg (ppm) |
| Lab ID:         | 07-041-05   |
| Client ID:      | MW3-12.5-14 |

|                             | 3- 9 g  |                      |       |
|-----------------------------|---------|----------------------|-------|
| Compound                    | Results | Flags                | PQL   |
| Dichlorodifluoromethane     | ND      | 소송의 이것이 없            | 0.066 |
| Chloromethane               | ND      | 영화 영상 전 전            | 0.066 |
| Vinyl Chloride              | ND      |                      | 0.066 |
| Bromomethane                | ND      | 승규는 것이 같아.           | 0.066 |
| Chloroethane                | ND      |                      | 0.066 |
| Trichlorofluoromethane      | ND      | 28 - A - 88 A        | 0.066 |
| 1,1-Dichloroethene          | ND      |                      | 0.066 |
| Methylene Chloride          | ND      |                      | 0.33  |
| (trans) 1,2-Dichloroethene  | ND      | 나는 여기 위험             | 0.066 |
| 1,1-Dichloroethane          | ND      |                      | 0.066 |
| 2,2-Dichloropropane         | ND      |                      | 0.066 |
| (cis) 1,2-Dichloroethene    | ND      | 알랐 김 영국              | 0.066 |
| Chloroform                  | ND .    |                      | 0.066 |
| 1,1,1-Trichloroethane       | ND      |                      | 0.066 |
| Carbon Tetrachloride        | ND      |                      | 0.066 |
| 1,1-Dichloropropene         | ND .    | - 1-5 . J.           | 0.066 |
| 1,2-Dichloroethane          | ND      |                      | 0.066 |
| Trichloroethene             | ND      | 쇼 한 번 전문             | 0.066 |
| 1,2-Dichloropropane         | ND      | 한 승규는 것              | 0.066 |
| Dibromomethane              | ND      |                      | 0.066 |
| Bromodichloromethane        | ND      | 것, 그 같은 사람           | 0.066 |
| 2-Chloroethyl Vinyl Ether   | ND      |                      | 0.33  |
| (cis) 1,3-Dichloropropene   | ND      | n name i di          | 0.066 |
| (trans) 1,3-Dichloropropene | ND      | Sinsi, Sis∍≮<br>Nisi | 0.066 |
| 1,1,2-Trichloroethane       | ND      |                      | 0.066 |
| Tetrachloroethene           | ND      | n said               | 0.066 |
| 1,3-Dichloropropane         | ND      | 18                   | 0.066 |
|                             |         |                      |       |

# HALOGENATED VOLATILES by EPA 8260B

page 2 of 2

| Lab ID:    |  |
|------------|--|
| Client ID: |  |

07-041-05 MW3-12.5-14

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 이 이 이 이 것 같아. 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 |         |
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| Compound                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Results Flags                                       | PQL     |
| Dibromochloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ND                                                  | 0.066   |
| 1,2-Dibromoethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ND                                                  | 0.066   |
| Chlorobenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ND                                                  | 0:066   |
| 1,1,1,2-Tetrachloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ND                                                  | 0.066   |
| Bromoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ND                                                  | 0.066   |
| Bromobenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ND                                                  | 0.066   |
| 1,1,2,2-Tetrachloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ND                                                  | 0.066   |
| 1,2,3-Trichloropropane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ND <sup>1</sup>                                     | 0.066   |
| 2-Chlorotoluene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ND                                                  | 0.066   |
| 4-Chlorotoluene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ND                                                  | 0.066   |
| 1,3-Dichlorobenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ND                                                  | 0.066   |
| 1,4-Dichlorobenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ND                                                  | 0.066   |
| 1,2-Dichlorobenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ND                                                  | 0.066   |
| 1,2-Dibromo-3-chloropropane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ND                                                  | 0.33    |
| 1,2,4-Trichlorobenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ND                                                  | 0.066   |
| Hexachlorobutadiene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ND                                                  | 0.33    |
| 1,2,3-Trichlorobenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ND                                                  | 0.066   |
| 승규는 전 이 가지 않았어? | 요즘 옷에서 가슴 옷에서 가지 않는 것이 많아서 나는 것을 알 것이다.             | Sec. 22 |

|                      | Perc | ent         | Control |
|----------------------|------|-------------|---------|
| Surrogate            | Reco | very        | Limits  |
| Dibromofluoromethane | 10   | 16          | 65-125  |
| Toluene-d8           | 97   | 7           | 77-116  |
| 4-Bromofluorobenzenė | 10   | 1 46 60 100 | 67-133  |

### HALOGENATED VOLATILES by EPA 8260B page 1 of 2

| Date Extracted: | 7-19-00                                                                                                         |
|-----------------|-----------------------------------------------------------------------------------------------------------------|
| Date Analyzed:  | 7-19-00                                                                                                         |
|                 | e se esta de la della |
| Matrix:         | Soil                                                                                                            |
| Units:          | mg/Kg (ppm)                                                                                                     |
| 29              |                                                                                                                 |
| Lab ID:         | 07-041-14                                                                                                       |
| Client ID:      | MW3-45-45 5                                                                                                     |

| 사실 수요 있는 것 같은 것 같 |         | 18 N. 19                                                                                                                                                                                                                           |       |
|-------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Compound                                        | Results | Flags                                                                                                                                                                                                                              | PQL   |
| Dichlorodifluoromethane                         | ND      |                                                                                                                                                                                                                                    | 0.058 |
| Chloromethane                                   | ND      | hat field to the                                                                                                                                                                                                                   | 0.058 |
| Vinyl Chloride                                  | ND      | 26 You by built                                                                                                                                                                                                                    | 0.058 |
| Bromomethane                                    | ND      | 9. Ja 2490                                                                                                                                                                                                                         | 0.058 |
| Chloroethane                                    | ND      |                                                                                                                                                                                                                                    | 0.058 |
| Trichlorofluoromethane                          | ND      |                                                                                                                                                                                                                                    | 0.058 |
| 1,1-Dichloroethene                              | ND      |                                                                                                                                                                                                                                    | 0.058 |
| Methylene Chloride                              | ND      |                                                                                                                                                                                                                                    | 0.29  |
| (trans) 1,2-Dichloroethene                      | ND      | Straget Sciences                                                                                                                                                                                                                   | 0.058 |
| 1,1-Dichloroethane                              | ND      | la di sa di                                                                                                                                                                                                                        | 0.058 |
| 2,2-Dichloropropane                             | ND      | 5 A. Ma                                                                                                                                                                                                                            | 0.058 |
| (cis) 1,2-Dichloroethene                        | ND      | 아니라 승규는                                                                                                                                                                                                                            | 0.058 |
| Chloroform                                      | ND      | en de la composición de la composición<br>En composición de la c | 0.058 |
| 1,1,1-Trichloroethane                           | ND      |                                                                                                                                                                                                                                    | 0.058 |
| Carbon Tetrachloride                            | ND:     | ्रा, हें रहेक्स्ट्रेस्                                                                                                                                                                                                             | 0.058 |
| 1,1-Dichloropropene                             | ND      |                                                                                                                                                                                                                                    | 0.058 |
| 1,2-Dichloroethane                              | ND      |                                                                                                                                                                                                                                    | 0.058 |
| Trichloroethene                                 | ND      |                                                                                                                                                                                                                                    | 0.058 |
| 1,2-Dichloropropane                             | ND      |                                                                                                                                                                                                                                    | 0.058 |
| Dibromomethane                                  | ND      |                                                                                                                                                                                                                                    | 0.058 |
| Bromodichloromethane                            | ND      | 요즘 집에 같다.                                                                                                                                                                                                                          | 0.058 |
| 2-Chloroethyl Vinyl Ether                       | ND      |                                                                                                                                                                                                                                    | 0.29  |
| (cis) 1,3-Dichloropropene                       | ND      | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1                                                                                                                                                                                           | 0.058 |
| (trans) 1,3-Dichloropropene                     | ND      |                                                                                                                                                                                                                                    | 0.058 |
| 1,1,2-Trichloroethane                           | ND      | 16. T                                                                                                                                                                                                                              | 0.058 |
| Tetrachloroethene                               | 0.14    | 영화 입니다.                                                                                                                                                                                                                            | 0.058 |
| 1,3-Dichloropropane                             | ND      | B                                                                                                                                                                                                                                  | 0.058 |
|                                                 |         | 1 1997 1 19                                                                                                                                                                                                                        |       |

# HALOGENATED VOLATILES by EPA 8260B page 2 of 2

| Lab ID:    |  |
|------------|--|
| Client ID: |  |

07-041-14 MW3-45-45.5

|                             | a a 19 19 19 - 19 - 19 | 111                                                                                                            | 1. D  |
|-----------------------------|------------------------|----------------------------------------------------------------------------------------------------------------|-------|
| Compound                    | Results                | Flags                                                                                                          | PQL   |
| Dibromochloromethane        | ND                     |                                                                                                                | 0.058 |
| 1,2-Dibromoethane           | ND                     | 이렇었죠!                                                                                                          | 0.058 |
| Chlorobenzene               | ND                     |                                                                                                                | 0.058 |
| 1,1,1,2-Tetrachloroethane   | ND                     |                                                                                                                | 0.058 |
| Bromoform                   | ND                     |                                                                                                                | 0.058 |
| Bromobenzene                | ND                     |                                                                                                                | 0.058 |
| 1,1,2,2-Tetrachloroethane   | ND                     |                                                                                                                | 0.058 |
| 1,2,3-Trichloropropane      | ND                     | 7 V.                                                                                                           | 0.058 |
| 2-Chlorotoluene             | ND                     | <ul> <li>15,5%,51</li> </ul>                                                                                   | 0.058 |
| 4-Chlorotoluene             | ND                     | 요망입                                                                                                            | 0.058 |
| 1,3-Dichlorobenzene         | ND                     |                                                                                                                | 0.058 |
| 1,4-Dichlorobenzene         | ND                     | Sec. Sec.                                                                                                      | 0.058 |
| 1,2-Dichlorobenzene         | ND                     |                                                                                                                | 0.058 |
| 1,2-Dibromo-3-chloropropane | ND /                   |                                                                                                                | 0.29  |
| 1,2,4-Trichlorobenzene      | ND                     | et de la companya de | 0.058 |
| Hexachlorobutadiene         | ND                     | 영화관                                                                                                            | 0.29  |
| 1,2,3-Trichlorobenzene      | ND                     |                                                                                                                | 0.058 |
|                             | 44 C                   | THE STATE AND I                                                                                                |       |

|                      | Percent  | Control |
|----------------------|----------|---------|
| Surrogate            | Recovery | Limits  |
| Dibromofluoromethane | 106      | 65-125  |
| Toluene-d8           | 98       | 77-116  |
| 4-Bromofluorobenzene | 105      | 67-133  |

# HALOGENATED VOLATILES by EPA 8260B page 1 of 2

| Date Extracted: | a de tradas ( | 7-19-00          |
|-----------------|---------------|------------------|
| Date Analyzed:  |               | 7-19-00          |
| 0.0             | janita i A    | Charles and      |
| Matrix:         | 전 등 방법        | Soil             |
| Units:          |               | mg/Kg (ppm)      |
| Lab ID:         |               | 07-041-19        |
| Client ID:      | 김 교환학         | VE3-10-11.5      |
|                 | the second    | 동 - 전화에 많이 다 가락한 |

| Compound                    | Results | Flags                | PQL   |
|-----------------------------|---------|----------------------|-------|
| Dichlorodifluoromethane     | ND      | 1                    | 0.060 |
| Chloromethane               | ND      |                      | 0.060 |
| Vinyl Chloride              | ND      | 이 일종 영상 문화           | 0.060 |
| Bromomethane                | ND      | and the second       | 0.060 |
| Chloroethane                | ND      |                      | 0.060 |
| Trichlorofluoromethane      | ND      |                      | 0.060 |
| 1,1-Dichloroethene          | ND      | 이 같이 다고              | 0.060 |
| Methylene Chloride          | ND      |                      | 0.30  |
| (trans) 1,2-Dichloroethene  | ND      | 가 있는 동안              | 0.060 |
| 1,1-Dichloroethane          | ND      |                      | 0.060 |
| 2,2-Dichloropropane         | ND      |                      | 0.060 |
| (cis) 1,2-Dichloroethene    | ND      |                      | 0.060 |
| Chloroform                  | ND      |                      | 0.060 |
| 1,1,1-Trichloroethane       | ND .    | 1. S. S. D.          | 0.060 |
| Carbon Tetrachloride        | ND      |                      | 0.060 |
| 1,1-Dichloropropene         | ND      |                      | 0.060 |
| 1,2-Dichloroethane          | ND      | 일을 전혀 있는             | 0.060 |
| Trichloroethene             | ND      |                      | 0.060 |
| 1,2-Dichloropropane         | ND.     | Rig ing analy        | 0.060 |
| Dibromomethane              | ND      |                      | 0.060 |
| Bromodichloromethane        | ND      | 아이는 말랐다.             | 0.060 |
| 2-Chloroethyl Vinyl Ether   | ND      | kensta (laja)        | 0.30  |
| (cis) 1,3-Dichloropropene   | ND      | - 영국의 영상             | 0.060 |
| (trans) 1,3-Dichloropropene | ND .    |                      | 0.060 |
| 1,1,2-Trichloroethane       | ND      | ింగ్ సో జోయలు<br>తెల | 0.060 |
| Tetrachloroethene           | ND      | 10 mm                | 0.060 |
| 1,3-Dichloropropane         | ND      |                      | 0.060 |
|                             |         | 2 X X X 10           |       |

## HALOGENATED VOLATILES by EPA 8260B page 2 of 2

|                           | - 1 A - 1 - 5 - 6                        |           | 2 × 5 8        |       |
|---------------------------|------------------------------------------|-----------|----------------|-------|
| Lab ID:                   | 07-041-19                                | en 1 en 1 |                |       |
| Client ID:                | VE3-10-11.5                              |           |                |       |
|                           | 김 승규는 것 같아?                              | i shirt   |                | 50°   |
| Compound                  |                                          | Results   | Flags          | PQL   |
| Dibromochloromethane      | 집에서 실려하는                                 | ND        | 1. Sec. 1.     | 0.060 |
| 1,2-Dibromoethane         |                                          | ND        |                | 0.060 |
| Chlorobenzene             | 전 이 이 집에 많은                              | ND        |                | 0.060 |
| 1,1,1,2-Tetrachloroethane |                                          | ND        | l 'n brai      | 0.060 |
| Bromoform                 |                                          | ND        |                | 0.060 |
| Bromobenzene              | 성장 나는 영화가 다.                             | ND        |                | 0.060 |
| 1,1,2,2-Tetrachloroethane |                                          | ND        | 이 있는 것 같은 것 같  | 0.060 |
| 1,2,3-Trichloropropane    | 의 이번 것은 것은 것이 없다.                        | ND        | 2. STA         | 0.060 |
| 2-Chlorotoluene           | 이 영제 도움이 되는                              | ND        |                | 0.060 |
| 4-Chlorotoluene           | 전 아파 | ND        | State State    | 0.060 |
| 1,3-Dichlorobenzene       |                                          | ND        |                | 0.060 |
| 1,4-Dichlorobenzene       | 김 영화 이 같이 있다.                            | ND        | 이 같은 것을 많을 했다. | 0.060 |
| 1,2-Dichlorobenzene       | 성비 있는 바람이 같                              | ND        | - 영양 - 양성      | 0.060 |
| 1,2-Dibromo-3-chloroprop  | ane                                      | ND        | 이 가지 않는        | 0.30  |
| 1,2,4-Trichlorobenzene    |                                          | ND        |                | 0.060 |
| Hexachlorobutadiene       | 봄 다양 다 맞먹다                               | ND        | No station     | 0.30  |
| 1,2,3-Trichlorobenzene    |                                          | ND        |                | 0.060 |

|                      | Percent  | Control |
|----------------------|----------|---------|
| Surrogate            | Recovery | Limits  |
| Dibromofluoromethane | 106      | 65-125  |
| Toluene-d8           | 101      | 77-116  |
| 4-Bromofluorobenzene | 108      | 67-133  |

### HALOGENATED VOLATILES by EPA 8260B page 1 of 2

| Date Extracted: | 7-19-00     |      |
|-----------------|-------------|------|
| Date Analyzed:  | 7-19-00     |      |
| 15              |             | 1526 |
| Matrix:         | Soil        | 12   |
| Units:          | mg/Kg (ppm) |      |
|                 |             |      |
| Lab ID:         | 07-041-23   | 1000 |
| Client ID:      | VE3-20-21.5 |      |

|                             |         |                                              | 5 O M |
|-----------------------------|---------|----------------------------------------------|-------|
| Compound                    | Results | Flags                                        | PQL   |
| Dichlorodifluoromethane     | ND      | <i>u</i>                                     | 0.056 |
| Chloromethane               | ND      | the state of the                             | 0.056 |
| Vinyl Chloride              | ND      | 이 아파 같이                                      | 0.056 |
| Bromomethane                | ND      | series de la serie<br>Transcella de la serie | 0.056 |
| Chloroethane                | ND      | See all the                                  | 0.056 |
| Trichlorofluoromethane      | ND      |                                              | 0.056 |
| 1,1-Dichloroethene          | ND      | 입장 문화 공장                                     | 0.056 |
| Methylene Chloride          | ND      | 날 전화를 받았                                     | 0.28  |
| (trans) 1,2-Dichloroethene  | ND      | 성장 것이 없다.                                    | 0.056 |
| 1,1-Dichloroethane          | ND      |                                              | 0.056 |
| 2,2-Dichloropropane         | ND      | 신영화 승규는 것이.                                  | 0.056 |
| (cis) 1,2-Dichloroethene    | ND      | 아파 알려 안내 ??                                  | 0.056 |
| Chloroform                  | ND      |                                              | 0.056 |
| 1,1,1-Trichloroethane       | ND      | 14 A 1                                       | 0.056 |
| Carbon Tetrachloride        | ND      |                                              | 0.056 |
| 1,1-Dichloropropene         | ND      |                                              | 0.056 |
| 1,2-Dichloroethane          | ND      | 유민 승규는 소문                                    | 0.056 |
| Trichloroethene             | ND      |                                              | 0.056 |
| 1,2-Dichloropropane         | ND      |                                              | 0.056 |
| Dibromomethane              | ND .    |                                              | 0.056 |
| Bromodichloromethane        | ND      |                                              | 0.056 |
| 2-Chloroethyl Vinyl Ether   | ND      | 이 이 이 것이 것이 없다.                              | 0.28  |
| (cis) 1,3-Dichloropropene   | ND ·    |                                              | 0.056 |
| (trans) 1,3-Dichloropropene | ND      |                                              | 0.056 |
| 1,1,2-Trichloroethane       | ND      |                                              | 0.056 |
| Tetrachloroethene           | ND      |                                              | 0.056 |
| 1,3-Dichloropropane         | ND      |                                              | 0.056 |
|                             |         |                                              |       |

Lab ID:

# HALOGENATED VOLATILES by EPA 8260B page 2 of 2

| Lab ID:    | (100a)<br>2 - 12 - 12 | 07-041-23   |
|------------|-----------------------|-------------|
| Client ID: |                       | VE3-20-21.5 |

|                             | 14 : 비슷이는 !!   | 의 것이 많이 있었다. 그 나와  |           |    |
|-----------------------------|----------------|--------------------|-----------|----|
| Compound                    | Results        | Flags              | PQL       |    |
| Dibromochloromethane        | ND             |                    | 0.056     |    |
| 1,2-Dibromoethane           | ND             | 가나는 것이라.           | 0.056     |    |
| Chlorobenzene               | ND             | The second of      | 0.056     | ŝ, |
| 1,1,1,2-Tetrachloroethane   | ND             |                    | 0.056     | ļ  |
| Bromoform                   | ND             |                    | 0.056     |    |
| Bromobenzene                | ND             | 양 이는 것이            | 0.056     | -  |
| 1,1,2,2-Tetrachloroethane   | ND             | 은 옷은 성공의           | 0.056     |    |
| 1,2,3-Trichloropropane      | ND             |                    | 0.056     |    |
| 2-Chlorotoluene             | ND.            | i gun saingef      | 0.056     | ŝ  |
| 4-Chlorotoluene             | ND             |                    | 0.056     | 1  |
| 1,3-Dichlorobenzene         | ND             |                    | 0.056     | ŝ  |
| 1,4-Dichlorobenzene         | ND             |                    | 0.056     |    |
| 1,2-Dichlorobenzene         | ND             |                    | 0.056     |    |
| 1,2-Dibromo-3-chloropropane | ND             |                    | 0.28      | ĩ  |
| 1,2,4-Trichlorobenzene      | ND             | 병원 전 김 영관          | 0.056     |    |
| Hexachlorobutadiene         | ND             | 김 아파 아파 감영         | 0.28      | ł  |
| 1,2,3-Trichlorobenzene      | ND             | 옷 가슴 가슴 가슴.        | 0.056     |    |
|                             | V 2512 (S. 19) | AND ANY CONTRACTOR | 1 (d) (d) |    |

|                     |           |                | Percent  |                                        |                   | Control | Ŷ |
|---------------------|-----------|----------------|----------|----------------------------------------|-------------------|---------|---|
| Surrogate           |           |                | Recovery | (************************************* | ा स्वयः, जे स्वयः | Limits  | ŝ |
| Dibromofluoromethan | ne        | 1. A. A. A. M. | 106      |                                        | a Carnet          | 65-125  |   |
| Toiuene-d8          | 이 귀엽이 있다. |                | 100      | a i<br>Rođ                             |                   | 77-116  |   |
| 4-Bromofluorobenzer | ne        |                | 110      |                                        |                   | 67-133  |   |

#### HALOGENATED VOLATILES by EPA 8260B page 1 of 2

| Date Extracted: | 7-19-00           |
|-----------------|-------------------|
| Date Analyzed:  | 7-19-00           |
| 54              | 그럼 그렇게 걸려 가지 않는다. |
| Matrix:         | Soil              |
| Units:          | mg/Kg (ppm)       |
| Lab (D:         | 07-041-24         |
| Client ID:      | MW2-2.5-4         |

|                             |         | 하는 것에서 가슴을                                                                 | Se    |
|-----------------------------|---------|----------------------------------------------------------------------------------------------------------------|-------|
| Compound                    | Results | Flags                                                                                                          | PQL   |
| Dichlorodifluoromethane     | ND      | 이 같은 것은 것이 같은 것이 없다.                                                                                           | 0.056 |
| Chloromethane               | ND      | 그만 걸려보험.                                                                                                       | 0.056 |
| Vinyl Chloride              | ND      |                                                                                                                | 0.056 |
| Bromomethane                | ND      |                                                                                                                | 0.056 |
| Chloroethane                | ND      |                                                                                                                | 0.056 |
| Trichlorofluoromethane      | ND      |                                                                                                                | 0.056 |
| 1,1-Dichloroethene          | ND      | 한 전에 주말했다.                                                                                                     | 0.056 |
| Methylene Chloride          | ND      | 지 않는 것 같아?                                                                                                     | 0.28  |
| (trans) 1,2-Dichloroethene  | ND      |                                                                                                                | 0.056 |
| 1,1-Dichloroethane          | ND      | 의 가장 이 것 같아?                                                                                                   | 0.056 |
| 2,2-Dichloropropane         | ND      |                                                                                                                | 0.056 |
| (cis) 1,2-Dichloroethene    | ND      |                                                                                                                | 0.056 |
| Chloroform                  | ND      |                                                                                                                | 0.056 |
| 1,1,1-Trichloroethane       | ND      |                                                                                                                | 0.056 |
| Carbon Tetrachloride        | ND      |                                                                                                                | 0.056 |
| 1,1-Dichloropropene         | ND      | Aller de la companya | 0.056 |
| 1,2-Dichloroethane          | ND      |                                                                                                                | 0.056 |
| Trichloroethene             | ND      |                                                                                                                | 0.056 |
| 1,2-Dichloropropane         | ND      |                                                                                                                | 0.056 |
| Dibromomethane              | ND      |                                                                                                                | 0.056 |
| Bromodichloromethane        | ND      |                                                                                                                | 0.056 |
| 2-Chloroethyl Vinyl Ether   | ND ·    | 4. おんなただ                                                                                                       | 0.28  |
| (cis) 1,3-Dichloropropene   | ND      |                                                                                                                | 0.056 |
| (trans) 1,3-Dichloropropene | ND      |                                                                                                                | 0.056 |
| 1,1,2-Trichloroethane       | ND      | 그는 것 같은 것 같                                                                                                    | 0.056 |
| Tetrachloroethene           | 11      |                                                                                                                | 0.056 |
| 1,3-Dichloropropane         | ND      |                                                                                                                | 0.056 |
|                             | 1       |                                                                                                                |       |

#### HALOGENATED VOLATILES by EPA 8260B page 2 of 2

|    | · · · · · · · · · · · · · · · · · · · |              | 물리가 말 봐. ㅋ |
|----|---------------------------------------|--------------|------------|
|    | Lab ID: 07-041-24                     | 그 같은 그 그 가지? |            |
|    | Client ID: MW2-2.5-4                  |              |            |
|    |                                       | 전 편은 것은 문화   | 백화 같은 것 ?? |
|    | Compound                              | Results F    | lags PQL   |
|    | Dibromochloromethane                  | ND           | 0.056      |
|    | 1,2-Dibromoethane                     | ND           | 0.056      |
|    | Chlorobenzene                         | ND           | 0.056      |
|    | 1,1,1,2-Tetrachloroethane             | ND           | 0.056      |
| 1  | Bromoform                             | ND           | 0.056      |
|    | Bromobenzene                          | ND .         | 0.056      |
| ł  | 1,1,2,2-Tetrachloroethane             | ND           | 0.056      |
|    | 1,2,3-Trichloropropane                | ND           | 0.056      |
| j. | 2-Chlorotoluene                       | ND           | 0.056      |
|    | 4-Chlorotoluene                       | ND           | 0.056      |
| ź  | 1,3-Dichlorobenzene                   | ND           | 0.056      |
|    | 1,4-Dichlorobenzene                   | ND           | 0.056      |
|    | 1,2-Dichlorobenzene                   | ND           | 0.056      |
|    | 1,2-Dibromo-3-chloropropane           | ND           | 0.28       |
|    | 1,2,4-Trichlorobenzene                | ND           | 0.056      |
|    | Hexachlorobutadiene                   | ND           | 0.28       |
|    | 1,2,3-Trichlorobenzene                | ND           | 0.056      |
|    |                                       |              |            |

|                      | 3        | eta di Maria | 한테 이 아이에 가 |
|----------------------|----------|--------------|------------|
|                      | Percent  |              | Control    |
| Surrogate            | Recovery |              | Limits     |
| Dibromofluoromethane | 107      |              | 65-125     |
| Toluene-d8           | 101      |              | 77-116     |
| 4-Bromofluorobenzene | 102      |              | 67-133     |

# HALOGENATED VOLATILES by EPA 8260B page 1 of 2

| Date Extracted: | 7-19-00            |
|-----------------|--------------------|
| Date Analyzed:  | 7-22-00            |
| Matrix:         | Soil               |
| Units:          | mg/Kg (ppm)        |
| Lab ID:         | 07-041-27          |
| Client ID:      | <b>MW2-10-11.5</b> |

| Compound                    | Results | Flags                                                                                                                                                                                                                               | PQL |
|-----------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Dichlorodifluoromethane     | ND      | i iugo                                                                                                                                                                                                                              | 32  |
| Chloromethane               | ND      | 것 같아 있는 것                                                                                                                                                                                                                           | 32  |
| Vinyl Chloride              | ND      |                                                                                                                                                                                                                                     | 32  |
| Bromomethane                | ND      |                                                                                                                                                                                                                                     | 32  |
| Chloroethane                | ND      |                                                                                                                                                                                                                                     | 32  |
| Trichlorofluoromethane      | ND      |                                                                                                                                                                                                                                     | 32  |
| 1,1-Dichloroethene          | ND      |                                                                                                                                                                                                                                     | 32  |
| Methylene Chloride          | 160     | Л н.™                                                                                                                                                                                                                               | 160 |
| (trans) 1,2-Dichloroethene  | ND      |                                                                                                                                                                                                                                     | 32  |
| 1,1-Dichloroethane          | ND      | 아이들 것이                                                                                                                                                                                                                              | 32  |
| 2,2-Dichloropropane         | ND      | , 일 전 문 생경                                                                                                                                                                                                                          | 32  |
| (cis) 1,2-Dichloroethene    | ND      |                                                                                                                                                                                                                                     | 32  |
| Chloroform                  | ND      |                                                                                                                                                                                                                                     | 32  |
| 1,1,1-Trichloroethane       | ND      | deg a 15                                                                                                                                                                                                                            | 32  |
| Carbon Tetrachloride        | ND      |                                                                                                                                                                                                                                     | 32  |
| 1,1-Dichloropropene         | ND      | 1977 - 1975 <u>-</u>                                                                                                                                                                                                                | 32  |
| 1,2-Dichloroethane          | ND      |                                                                                                                                                                                                                                     | 32  |
| Trichloroethene             | ND .    | é i shi shar                                                                                                                                                                                                                        | 32  |
| 1,2-Dichloropropane         | ND      | 분 영양 문                                                                                                                                                                                                                              | 32  |
| Dibromomethane              | ND      | 김, 가격을                                                                                                                                                                                                                              | 32  |
| Bromodichloromethane        | ND      |                                                                                                                                                                                                                                     | 32  |
| 2-Chloroethyl Vinyl Ether   | ND      |                                                                                                                                                                                                                                     | 160 |
| (cis) 1,3-Dichloropropene   | ND      | jen skih                                                                                                                                                                                                                            | 32  |
| (trans) 1,3-Dichloropropene | ND      | 14. T. H.                                                                                                                                                                                                                           | 32  |
| 1,1,2-Trichloroethane       | ND      | h sựng                                                                                                                                                                                                                              | 32  |
| Tetrachloroethene           | 6900    | 21 BO                                                                                                                                                                                                                               | 320 |
| 1,3-Dichloropropane         | ND      | i da li da la composición de la composi<br>El composición de la c | 32  |
|                             |         | 1.5                                                                                                                                                                                                                                 | 060 |

## HALOGENATED VOLATILES by EPA 8260B page 2 of 2

| Lab ID:    | 2 | ÷.,       | 07-041-27   |
|------------|---|-----------|-------------|
| Client ID: |   | કાંહુ છે. | MW2-10-11.5 |

| ¢ | Compound                                                                                                        | Results                     | Flags PQL          |
|---|-----------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------|
|   | Dibromochloromethane                                                                                            | ND                          | 32                 |
|   | 1,2-Dibromoethane                                                                                               | ND                          | 32                 |
|   | Chlorobenzene                                                                                                   | ND                          | 32                 |
|   | 1,1,1,2-Tetrachloroethane                                                                                       | ND                          | 32                 |
|   | Bromoform                                                                                                       | ND                          | 32                 |
| ĥ | Bromobenzene                                                                                                    | ND                          | 32                 |
|   | 1,1,2,2-Tetrachloroethane                                                                                       | ND                          | 2014 Concert 32 34 |
| 1 | 1,2,3-Trichloropropane                                                                                          | ND                          | . 32               |
|   | 2-Chlorotoluene                                                                                                 | ND                          | 32                 |
| 1 | 4-Chlorotoluene                                                                                                 | ND                          | 32                 |
|   | 1,3-Dichlorobenzene                                                                                             | ND                          | 32                 |
|   | 1,4-Dichlorobenzene                                                                                             | ND                          | 32                 |
| ì | 1,2-Dichlorobenzene                                                                                             | ND                          | 32                 |
| 1 | 1,2-Dibromo-3-chloropropane                                                                                     | ND                          | 160                |
| , | 1,2,4-Trichlorobenzene                                                                                          | ND                          | 32                 |
|   | Hexachlorobutadiene                                                                                             | ND                          | 160                |
| 1 | 1,2,3-Trichlorobenzene                                                                                          | ND                          | 32                 |
|   | a contract of the second se | 3. CONTRACTOR 1. CONTRACTOR | College II a King  |

|                      | Percent  | Control |
|----------------------|----------|---------|
| Surrogate            | Recovery | Limits  |
| Dibromofluoromethane | 97       | 65-125  |
| Toluene-d8           | 98       | 77-116  |
| 4-Bromofluorobenzene | 100      | 67-133  |

#### HALOGENATED VOLATILES by EPA 8260B page 1 of 2

| Date Extracted: | 7-19-00                     | 1. A. A.                                |
|-----------------|-----------------------------|-----------------------------------------|
| Date Analyzed:  | 7-21-00                     | 공장합니다                                   |
| 10              |                             |                                         |
| Matrix:         | Soil                        | 5 0 XZ -                                |
| Units:          | mg/Kg (ppm)                 |                                         |
|                 |                             | 물감하는                                    |
| Lab ID:         | 07-041-30                   | - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 |
| Client ID:      | MW2-17.5-19                 | 36 AL                                   |
|                 | - 19월 20일 전 12일에서 2월 2일 것 - | 것 안정 문                                  |

|                             | an a | 4/58/5                                  | - ° 6 |
|-----------------------------|------------------------------------------|-----------------------------------------|-------|
| Compound                    | Results                                  | Flags                                   | PQL   |
| Dichlorodifiuoromethane     | ND                                       | $1 \sim 1$                              | 0.052 |
| Chloromethane               | ND                                       | 이 같이 같이 같이 같이 같이 같이 같이 같이 않는 것이 같이 말했다. | 0.052 |
| Vinyl Chloride              | ND                                       | 411.061.0                               | 0.052 |
| Bromomethane                | ND                                       | 같이 같은 것                                 | 0.052 |
| Chloroethane                | ND.                                      | 1.124 11 (1.14)                         | 0.052 |
| Trichlorofluoromethane      | ND                                       |                                         | 0.052 |
| 1,1-Dichloroethene          | ND                                       | All all and a set                       | 0.052 |
| Methylene Chloride          | 0.30                                     | н. <b>т</b>                             | 0.26  |
| (trans) 1,2-Dichloroethene  | ND                                       |                                         | 0.052 |
| 1,1-Dichloroethane          | ND                                       | e statione de la company                | 0.052 |
| 2,2-Dichloropropane         | ND                                       | e filing an Ara                         | 0.052 |
| (cis) 1,2-Dichloroethene    | ND                                       | 날만하는 문                                  | 0.052 |
| Chloroform                  | ND                                       | [고 네 <u>교육</u> 쇼 ]                      | 0.052 |
| 1,1,1-Trichloroethane       | ND                                       |                                         | 0.052 |
| Carbon Tetrachloride        | ND .                                     |                                         | 0.052 |
| 1,1-Dichloropropene         | ND                                       | 전 소문 문화                                 | 0.052 |
| 1,2-Dichloroethane          | ND                                       | g i langing si ja                       | 0.052 |
| Trichloroethene             | ND                                       |                                         | 0.052 |
| 1,2-Dichloropropane         | ND                                       |                                         | 0.052 |
| Dibromomethane              | ND                                       |                                         | 0.052 |
| Bromodichloromethane        | ND                                       |                                         | 0.052 |
| 2-Chloroethyl Vinyl Ether   | ND                                       | 영화 김 영양 문제로                             | 0.26  |
| (cis) 1,3-Dichloropropene   | ND                                       | 이 아이지 않는 것                              | 0.052 |
| (trans) 1,3-Dichloropropene | ND                                       | 1 S - 66 S                              | 0.052 |
| 1,1,2-Trichloroethane       | ND                                       | a ne                                    | 0.052 |
| Tetrachloroethene           | 0.65                                     | - 5, x - 1 - 91                         | 0.052 |
| 1,3-Dichloropropane         | ND                                       | ni shi                                  | 0.052 |
|                             | 61.0                                     |                                         |       |

# HALOGENATED VOLATILES by EPA 8260B page 2 of 2

| Lab ID:    |                                          | 07-041-30   |
|------------|------------------------------------------|-------------|
| Client ID: | St. Vingelik                             | MW2-17.5-19 |
| 14         | 705 (ARE)                                |             |
| Compound   | an 16 - 16 - 16 - 16 - 16 - 16 - 16 - 16 |             |

| Compound                    | Results | Flags             | PQL   |
|-----------------------------|---------|-------------------|-------|
| Dibromochloromethane        | ND      |                   | 0.052 |
| 1,2-Dibromoethane           | ND      |                   | 0.052 |
| Chlorobenzene               | ND      |                   | 0.052 |
| 1,1,1,2-Tetrachloroethane   | ND      | - 1. J. S.        | 0.052 |
| Bromoform                   | ND      | and the state     | 0.052 |
| Bromobenzene                | ND      | 이 이렇게 그 않는        | 0.052 |
| 1,1,2,2-Tetrachloroethane   | ND      | Sec. St. St.      | 0.052 |
| 1,2,3-Trichloropropane      | ND      |                   | 0.052 |
| 2-Chlorotoluene             | ND      | North of a little | 0.052 |
| 4-Chlorotoluene             | ND      | 요즘 가장             | 0.052 |
| 1,3-Dichlorobenzene         | ND      |                   | 0.052 |
| 1,4-Dichlorobenzene         | ND      | 김한 바람이 한          | 0.052 |
| 1,2-Dichlorobenzene         | ND      | 이 회사는 것 같아?       | 0.052 |
| 1,2-Dibromo-3-chloropropane | ND      |                   | 0.26  |
| 1,2,4-Trichlorobenzene      | ND      |                   | 0.052 |
| Hexachlorobutadiene         | ND      |                   | 0.26  |
| 1,2,3-Trichlorobenzene      | ND      | 사람이 있는 것이 없다.     | 0.052 |
|                             |         |                   |       |

| e            | 1.1.2 A.S. 1977 | N R 등 전 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 | 8                                        | 1.244                |                                                                                 |                                                                                 |
|--------------|-----------------|-------------------------------------------|------------------------------------------|----------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
|              |                 | Percent                                   | an a | Control              |                                                                                 |                                                                                 |
| 1. A.        | 1. J            | Recovery                                  |                                          | Limits               | 5                                                                               |                                                                                 |
| 1. star (* 1 |                 | 97                                        |                                          | 65-125               |                                                                                 |                                                                                 |
| - 13 - I     |                 | 96                                        |                                          | 77-116               | °0                                                                              |                                                                                 |
| Sec."        |                 | 104                                       |                                          | 67-133               | 8                                                                               |                                                                                 |
|              | 1               |                                           | Recovery<br>97<br>96                     | Recovery<br>97<br>96 | Recovery         Limits           97         65-125           96         77-116 | Recovery         Limits           97         65-125           96         77-116 |

#### HALOGENATED VOLATILES by EPA 8260B page 1 of 2

| Date Extracted: | 7-19-00          |
|-----------------|------------------|
| Date Analyzed:  | 7-21-00          |
| Matrix:         | Soil             |
| Units:          | mg/Kg (ppm)      |
| Lab ID:         | 07-041-33        |
| Client ID:      | <b>MW2-30-31</b> |

|                             |         | 1 24 24 2                   | ·     |
|-----------------------------|---------|-----------------------------|-------|
| Compound                    | Results | Flags                       | PQL   |
| Dichlorodifluoromethane     | ND      | $T^{\mu}$                   | 0.053 |
| Chloromethane               | ND      |                             | 0.053 |
| Vinyl Chloride              | ND      | 한 바람이 없다.                   | 0.053 |
| Bromomethane                | ND      | 양 가슴 승규는 것                  | 0.053 |
| Chloroethane                | ND      | 학과 가락 질다                    | 0.053 |
| Trichlorofluoromethane      | ND      |                             | 0.053 |
| 1,1-Dichloroethene          | ND      |                             | 0.053 |
| Methylene Chloride          | 0.29    | H                           | 0.26  |
| (trans) 1,2-Dichloroethene  | ND      |                             | 0.053 |
| 1,1-Dichloroethane          | ND      |                             | 0.053 |
| 2,2-Dichloropropane         | ND      | 21 전 2017년                  | 0.053 |
| (cis) 1,2-Dichloroethene    | ND      | 한 같은 것 같아.                  | 0.053 |
| Chloroform                  | ND      |                             | 0.053 |
| 1,1,1-Trichloroethane       | ND      | an Canada an<br>Ti indesi a | 0.053 |
| Carbon Tetrachloride        | ND      | IL STREET                   | 0.053 |
| 1,1-Dichloropropene         | ND      |                             | 0.053 |
| 1,2-Dichloroethane          | ND      | 사망 공연가 않                    | 0.053 |
| Trichloroethene             | ND      | See . State                 | 0.053 |
| 1,2-Dichloropropane         | ND      |                             | 0.053 |
| Dibromomethane              | ND      | i. yih.                     | 0.053 |
| Bromodichloromethane        | ND      | t se se l'une               | 0.053 |
| 2-Chloroethyl Vinyl Ether   | ND      |                             | 0.26  |
| (cis) 1,3-Dichloropropene   | ND      | ana <sup>1</sup> 1 - Ingo   | 0.053 |
| (trans) 1,3-Dichloropropene | ND      |                             | 0.053 |
| 1,1,2-Trichloroethane       | ND      | 전 에는 영                      | 0.053 |
| Tetrachloroethene           | 0.43    |                             | 0.053 |
| 1,3-Dichloropropane         | ND      |                             | 0.053 |
|                             |         | ¥ 10.0                      |       |

### HALOGENATED VOLATILES by EPA 8260B

|--|

| Lab ID:    | 07-041-33 |
|------------|-----------|
| Client ID: | MW2-30-31 |
|            |           |

|                             |                             | • • • • • • • • • • • • • • • • • • •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |
|-----------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Compound                    | Results                     | Flags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PQL   |
| Dibromochloromethane        | ND                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.053 |
| 1,2-Dibromoethane           | ND                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.053 |
| Chlorobenzene               | ND                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.053 |
| 1,1,1,2-Tetrachloroethane   | ND                          | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.053 |
| Bromoform                   | ND                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.053 |
| Bromobenzene                | ND                          | 사가 만나 말을 들었다.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.053 |
| 1,1,2,2-Tetrachloroethane   | ND                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.053 |
| 1,2,3-Trichloropropane      | ND                          | 251, St.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.053 |
| 2-Chlorotoluene             | ND                          | 이는 것이 같이 같이 같이 같이 같이 않는 것이 같이 많이 했다. 말했는 것이 같이 많이 많이 많이 많이 없이 않는 것이 없는 것이 않는 것이 없는 것이 없이 않이                        | 0.053 |
| 4-Chlorotoluene             | ND                          | 전 관계 관계                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.053 |
| 1,3-Dichlorobenzene         | ND                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.053 |
| 1,4-Dichlorobenzene         | ND                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.053 |
| 1,2-Dichlorobenzene         | ND                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.053 |
| 1,2-Dibromo-3-chloropropane | ND                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.26  |
| 1,2,4-Trichlorobenzene      | ND                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.053 |
| Hexachlorobutadiene         | ND                          | the dealers and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.26  |
| 1,2,3-Trichlorobenzene      | ND                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.053 |
|                             | して おうみ ボディー・パー・ストレン しょうがく 読 | And a second sec |       |

| 그는 것이 말 가슴을 걸 수 있는 것을 가셨다. | Percent  | Control |
|----------------------------|----------|---------|
| Surrogate                  | Recovery | Limits  |
| Dibromofluoromethane       | 99       | 65-125  |
| Toluene-d8                 | 99       | 77-116  |
| 4-Bromofluorobenzene       | 103      | 67-133  |

#### HALOGENATED VOLATILES by EPA 8260B page 1 of 2

| Date Extracted: |                                       | 7-19-00                                 |
|-----------------|---------------------------------------|-----------------------------------------|
| Date Analyzed:  |                                       | 7-21-00                                 |
|                 | ⇒ वंशावी है -                         | 1 · · · · · · · · · · · · · · · · · · · |
| Matrix:         | a - 2 A                               | Soil                                    |
| Units:          |                                       | mg/Kg (ppm)                             |
|                 |                                       |                                         |
| Lab ID:         | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 07-041-36                               |
| Client ID:      |                                       | MW2-45-45.5                             |

| Compound                    | Results | Flags            | PQL   |
|-----------------------------|---------|------------------|-------|
| Dichlorodifluoromethane     | ND      | i lags           | 0.052 |
| Chloromethane               | ND      |                  | 0.052 |
| Vinyl Chloride              | ND      |                  | 0.052 |
| Bromomethane                | ND      |                  | 0.052 |
| Chloroethane                | ND      |                  | 0.052 |
| Trichlorofluoromethane      | ND      |                  | 0.052 |
| 1,1-Dichloroethene          | ND      | - Son 12 - 9<br> | 0.052 |
| Methylene Chloride          | 0.31    | H H              | 0.26  |
| (trans) 1,2-Dichloroethene  | ND      |                  | 0.052 |
| 1,1-Dichloroethane          | ND      |                  | 0.052 |
| 2,2-Dichloropropane         | ND      | Start Barrie     | 0.052 |
| (cis) 1,2-Dichloroethene    | ND      |                  | 0.052 |
| Chloroform                  | ND      |                  | 0.052 |
| 1,1,1-Trichloroethane       | ND.     | 만만 많을 것?         | 0.052 |
| Carbon Tetrachloride        | ND      |                  | 0.052 |
| 1,1-Dichloropropene         | ND      |                  | 0.052 |
| 1,2-Dichloroethane          | ND      |                  | 0.052 |
| Trichloroethene             | ND      |                  | 0.052 |
| 1,2-Dichloropropane         | ND      |                  | 0.052 |
| Dibromomethane              | ND      |                  | 0.052 |
| Bromodichloromethane        | ND      | si Jawa ji       | 0.052 |
| 2-Chloroethyl Vinyl Ether   | ND      | 20.1             | 0.26  |
| (cis) 1,3-Dichloropropene   | ND      |                  | 0.052 |
| (trans) 1,3-Dichloropropene | ND      | - A.             | 0.052 |
| 1,1,2-Trichloroethane       | ND      | 5 J B            | 0.052 |
| Tetrachloroethene           | 0.49    | s                | 0.052 |
| 1,3-Dichloropropane         | ND      |                  | 0.052 |
|                             |         |                  |       |

Lab ID: Client ID:

# HALOGENATED VOLATILES by EPA 8260B page 2 of 2

|     |   | 07-041-36 |
|-----|---|-----------|
| 5.2 | 2 | MW2-45-45 |

|    |                                                               | nig i je po   | alan alah - x                                                                                                   | 1. A. |  |
|----|---------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------|-------|--|
|    | Compound                                                      | Results       | Flags                                                                                                           | PQL   |  |
|    | Dibromochloromethane                                          | ND            | a 18 - 19 ger a 1                                                                                               | 0.052 |  |
|    | 1,2-Dibromoethane                                             | ND            |                                                                                                                 | 0.052 |  |
|    | Chlorobenzene                                                 | ND            | 사망 소리가 가격                                                                                                       | 0.052 |  |
|    | 1,1,1,2-Tetrachloroethane                                     | ND            | 2012년 - 1913년 - | 0.052 |  |
|    | Bromoform                                                     | ND            |                                                                                                                 | 0.052 |  |
| 12 | Bromobenzene                                                  | ND -          | 영양 같은 것이라.                                                                                                      | 0.052 |  |
|    | 1,1,2,2-Tetrachloroethane                                     | ND            | 상태에 있는 여행                                                                                                       | 0.052 |  |
| ŝ  | 1,2,3-Trichloropropane                                        | ND            |                                                                                                                 | 0.052 |  |
|    | 2-Chlorotoluene                                               | ND            |                                                                                                                 | 0.052 |  |
|    | 4-Chlorotoluene                                               | ND            |                                                                                                                 | 0.052 |  |
|    | 1,3-Dichlorobenzene                                           | ND            | 아이는 여러 같다.                                                                                                      | 0.052 |  |
|    | 1,4-Dichlorobenzene                                           | ND            |                                                                                                                 | 0.052 |  |
|    | 1,2-Dichlorobenzene                                           | ND            |                                                                                                                 | 0.052 |  |
|    | 1,2-Dibromo-3-chloropropane                                   | ND            |                                                                                                                 | 0.26  |  |
|    | 1,2,4-Trichlorobenzene                                        | ND            |                                                                                                                 | 0.052 |  |
|    | Hexachlorobutadiene                                           | ND            | 그는 것을 알았다.                                                                                                      | 0.26  |  |
|    | 1,2,3-Trichlorobenzene                                        | ND            |                                                                                                                 | 0.052 |  |
|    | 그는 것 같은 것 같은 것 같은 것 같이 많이 | 변경에 - 물장의 관 의 | 인생의, 제가 있는 해가 위험을 얻                                                                                             |       |  |

| č |                      | P   | ercent  |                                       | Control | į,     |
|---|----------------------|-----|---------|---------------------------------------|---------|--------|
|   | Surrogate            | Re  | ecovery | 가지만 소리                                | Limits  | 1      |
|   | Dibromofluoromethane |     | 97      | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 65-125  |        |
|   | Toluene-d8           | 11  | 98      |                                       | 77-116  | с<br>С |
|   | 4-Bromofluorobenzene | ÷., | 103     |                                       | 67-133  |        |

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#### HALOGENATED VOLATILES by EPA 8260B page 1 of 2

| Date Extracted: | 7-19-00     |
|-----------------|-------------|
| Date Analyzed:  | 7-21-00     |
|                 |             |
| Matrix:         | Soil        |
| Units:          | mg/Kg (ppm) |
| Lab ID:         | 07-041-41   |
| Client ID:      | VE4-15-16.5 |
|                 |             |

| Compound                    | Results | Flags         | PQL   |
|-----------------------------|---------|---------------|-------|
| Dichlorodifluoromethane     | ND      | 11495         | 0.061 |
| Chloromethane               | ND      |               | 0.061 |
| Vinyl Chloride              | ND      | 19.30 문       | 0.061 |
| Bromomethane                | ND      | 이 집안 문란을      | 0.061 |
| Chloroethane                | ND      |               | 0.061 |
| Trichlorofluoromethane      | ND      | 에 관련 - 말 알 때  | 0.061 |
| 1,1-Dichloroethene          | ND      |               | 0.061 |
| Methylene Chloride          | 0.39    | H             | 0.30  |
| (trans) 1,2-Dichloroethene  | ND      | 아님 말 물건했다.    | 0.061 |
| 1,1-Dichloroethane          | ND      |               | 0.061 |
| 2,2-Dichloropropane         | ND      | ale a Castrol | 0.061 |
| (cis) 1,2-Dichloroethene    | ND      |               | 0.061 |
| Chloroform                  | ND      |               | 0.061 |
| 1,1,1-Trichloroethane       | ND      |               | 0.061 |
| Carbon Tetrachloride        | ND      |               | 0.061 |
| 1,1-Dichloropropene         | ND      |               | 0.061 |
| 1,2-Dichloroethane          | ND      |               | 0.061 |
| Trichloroethene             | ND      | 아니 가슴을 깨끗을    | 0.061 |
| 1,2-Dichloropropane         | ND      |               | 0.061 |
| Dibromomethane              | ND      |               | 0.061 |
| Bromodichloromethane        | ND      |               | 0.061 |
| 2-Chloroethyl Vinyl Ether   | ND      |               | 0.30  |
| (cis) 1,3-Dichloropropene   | ND.     | . i. N        | 0.061 |
| (trans) 1,3-Dichloropropene | ND      | 이번 사람 도 바     | 0.061 |
| 1,1,2-Trichloroethane       | ND      | 나는 제품을 위한     | 0.061 |
| Tetrachloroethene           | 0.16    |               | 0.061 |
| 1,3-Dichloropropane         | ND      |               | 0.061 |
|                             |         |               |       |

#### HALOGENATED VOLATILES by EPA 8260B page 2 of 2

Lab ID:

07-041-41 VE4-15-16.5

|      |    | •   |  |
|------|----|-----|--|
| Clie | nt | ID: |  |

| Compound                    | Results Flags                           | PQL   |
|-----------------------------|-----------------------------------------|-------|
| Dibromochloromethane        | ND                                      | 0.061 |
| 1,2-Dibromoethane           | ND                                      | 0.061 |
| Chlorobenzene               | ND                                      | 0.061 |
| 1,1,1,2-Tetrachloroethane   | ND                                      | 0.061 |
| Bromoform                   | ND                                      | 0.061 |
| Bromobenzene                | ND                                      | 0.061 |
| 1,1,2,2-Tetrachloroethane   | ND                                      | 0.061 |
| 1,2,3-Trichloropropane      | ND                                      | 0.061 |
| 2-Chlorotoluene             | ND                                      | 0.061 |
| 4-Chlorotoluene             | ND                                      | 0.061 |
| 1,3-Dichlorobenzene         | ND                                      | 0.061 |
| 1,4-Dichlorobenzene         | ND                                      | 0.061 |
| 1,2-Dichlorobenzene         | ND                                      | 0.061 |
| 1,2-Dibromo-3-chloropropane | ND                                      | 0.30  |
| 1,2,4-Trichlorobenzene      | ND                                      | 0.061 |
| Hexachlorobutadiene         | ND                                      | 0.30  |
| 1,2,3-Trichlorobenzene      | ND                                      | 0.061 |
|                             | enter - Managera Santas Millio - Marina |       |

| ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | Percent  | Control |
|----------------------------------------|----------|---------|
| Surrogate                              | Recovery | Limits  |
| Dibromofluoromethane                   | 97       | 65-125  |
| Toluene-d8                             | 96       | 77-116  |
| 4-Bromofluorobenzene                   | 92       | 67-133  |

#### HALOGENATED VOLATILES by EPA 8260B page 1 of 2

| Date Extracted: | 7-19-00     | 10 |
|-----------------|-------------|----|
| Date Analyzed:  | 7-21-00     |    |
|                 |             | 2  |
| Matrix:         | Soil        |    |
| Units:          | mg/Kg (ppm) | 85 |
|                 |             |    |
| Lab ID:         | 07-041-44   |    |
| Client ID:      | VE2-5-6.5   |    |

| Compound                    | Results | Flags                                  | PQL   |
|-----------------------------|---------|----------------------------------------|-------|
| Dichlorodifluoromethane     | ND      | riays                                  | 6.2   |
| Chloromethane               | ND      |                                        | 6.2   |
| Vinyl Chloride              | ND      |                                        | 6.2   |
| Bromomethane                | ND      |                                        | 6.2   |
| Chloroethane                | ND      |                                        | 6.2   |
| Trichlorofluoromethane      | ND      |                                        | 6.2   |
| 1,1-Dichloroethene          | ND      | £ 3                                    | 6.2   |
| Methylene Chloride          | 33      | Н.                                     | 31    |
| (trans) 1,2-Dichloroethene  | ND      |                                        | 6.2   |
| 1,1-Dichloroethane          | ND      |                                        | 6.2   |
| 2,2-Dichloropropane         | ND      |                                        | 6.2   |
| (cis) 1,2-Dichloroethene    | ND      |                                        | 6.2   |
| Chloroform                  | ND      |                                        | 6.2   |
| 1,1,1-Trichloroethane       | ND      |                                        | 6.2   |
| Carbon Tetrachloride        | ND      |                                        | 6.2   |
| 1,1-Dichloropropene         | ND      | 사람 및 가장                                | 6.2   |
| 1,2-Dichloroethane          | ND      | 엄마, 영문                                 | 6.2   |
| Trichloroethene             | ND      |                                        | 6.2   |
| 1,2-Dichloropropane         | ND      |                                        | 6.2   |
| Dibromomethane              | ND      | 1.1.4.4                                | 6.2   |
| Bromodichloromethane        | ND      |                                        | 6.2   |
| 2-Chloroethyl Vinyl Ether   | ND      | 19 M.                                  | 31    |
| (cis) 1,3-Dichloropropene   | ND      | ************************************** | 6.2   |
| (trans) 1,3-Dichloropropene | ND      |                                        | 6.2   |
| 1,1,2-Trichloroethane       | ND      | Ne Court                               | 6.2   |
| Tetrachioroethene           | 230     | e vil                                  | 6.2   |
| 1,3-Dichloropropane         | ND      |                                        | 6.2   |
| V 600 20                    |         | Sec. 1. 1.                             | 5 5 S |

### HALOGENATED VOLATILES by EPA 8260B page 2 of 2

| 5                          | (4) 100 101 101 (1973) | ) X                |     |
|----------------------------|------------------------|--------------------|-----|
| Lab ID:                    | 07-041-44              | a a se la 12 a gan |     |
| Client ID:                 | VE2-5-6.5              |                    | 262 |
|                            |                        |                    | đ   |
| Compound                   |                        | Results Flags      | PQL |
| Dibromochloromethane       |                        | ND                 | 6.2 |
| 1,2-Dibromoethane          | 그는 것은 것이 없는 것이 없다.     | ND                 | 6.2 |
| Chlorobenzene              | 이 좀 한 유지로 많이 같         | ND                 | 6.2 |
| 1,1,1,2-Tetrachloroethane  |                        | ND                 | 6.2 |
| Bromoform                  |                        | ND                 | 6.2 |
| Bromobenzene               |                        | ND                 | 6.2 |
| 1,1,2,2-Tetrachloroethane  |                        | ND                 | 6.2 |
| 1,2,3-Trichloropropane     | 아니 걸린 걸렸는 다 날랐다.       | ND                 | 6.2 |
| 2-Chlorotoluene            |                        | ND                 | 6.2 |
| 4-Chlorotoluene            |                        | ND                 | 6.2 |
| 1,3-Dichlorobenzene        | 이는 안 같은 그렇             | ND                 | 6.2 |
| 1,4-Dichlorobenzene        | 아랍니다. 하락했는             | ND                 | 6.2 |
| 1,2-Dichlorobenzene        | 영리는 그는 것이 같이 다.        | ND                 | 6.2 |
| 1,2-Dibromo-3-chloropropan | e                      | ND                 | 31  |
| 1,2,4-Trichlorobenzene     | 의 상태가 관계하는 것           | ND                 | 6.2 |
| Hexachlorobutadiene        | 가고 전화 여자님              | ND                 | 31  |
| 1,2,3-Trichlorobenzene     |                        | ND                 | 6.2 |
|                            | CELEVITY STREAM INCOME |                    |     |

|                      | Percent Control | 178 |
|----------------------|-----------------|-----|
| Surrogate            | Recovery Limits |     |
| Dibromofluoromethane | 99 65-125       |     |
| Toluene-d8           | 98 77-116       | 12  |
| 4-Bromofluorobenzene | 101 67-133      |     |

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# HALOGENATED VOLATILES by EPA 8260B page 1 of 2

S.

| Date Extracted: | 7-19-00     |
|-----------------|-------------|
| Date Analyzed:  | 7-21-00     |
| 8               |             |
| Matrix:         | Soil        |
| Units:          | mg/Kg (ppm) |
| Lab ID:         | 07-041-48   |
| Client ID:      | VE2-15-16.5 |

| Compound                    | Results | Flags                                                                                                           | PQL   |
|-----------------------------|---------|-----------------------------------------------------------------------------------------------------------------|-------|
| Dichlorodifluoromethane     | ND .    |                                                                                                                 | 0.063 |
| Chioromethane               | ND .    |                                                                                                                 | 0.063 |
| Vinyl Chloride              | ND      | n na shina n | 0.063 |
| Bromomethane                | ND      |                                                                                                                 | 0.063 |
| Chloroethane                | ND      |                                                                                                                 | 0.063 |
| Trichlorofluoromethane      | ND      | 친구나의 방법이다.                                                                                                      | 0.063 |
| 1,1-Dichloroethene          | ND      | [[: : : : : : : : : : : : : : : : : : :                                                                         | 0.063 |
| Methylene Chloride          | 0.37    | 新行用になる                                                                                                          | 0.32  |
| (trans) 1,2-Dichloroethene  | ND      |                                                                                                                 | 0.063 |
| 1,1-Dichloroethane          | ND      |                                                                                                                 | 0.063 |
| 2,2-Dichloropropane         | ND      |                                                                                                                 | 0.063 |
| (cis) 1,2-Dichloroethene    | ND      |                                                                                                                 | 0.063 |
| Chloroform                  | ND      |                                                                                                                 | 0.063 |
| 1,1,1-Trichloroethane       | ND      |                                                                                                                 | 0.063 |
| Carbon Tetrachloride        | ND      |                                                                                                                 | 0.063 |
| 1,1-Dichloropropene         | ND      |                                                                                                                 | 0.063 |
| 1,2-Dichloroethane          | ND      |                                                                                                                 | 0.063 |
| Trichloroethene             | ND      | Que de consel #                                                                                                 | 0.063 |
| 1,2-Dichloropropane         | ND      |                                                                                                                 | 0.063 |
| Dibromomethane              | ND      | ~ 승규가 같은                                                                                                        | 0.063 |
| Bromodichloromethane        | ND      |                                                                                                                 | 0.063 |
| 2-Chloroethyl Vinyl Ether   | ND      |                                                                                                                 | 0.32  |
| (cis) 1,3-Dichloropropene   | ND      |                                                                                                                 | 0.063 |
| (trans) 1,3-Dichloropropene | ND      |                                                                                                                 | 0.063 |
| 1,1,2-Trichloroethane       | ND      | 김 영화 아이는 것                                                                                                      | 0.063 |
| Tetrachloroethene           | 0.52    | W. Bash                                                                                                         | 0.063 |
| 1,3-Dichloropropane         | ND      | 이 아이지 않는 것                                                                                                      | 0.063 |
|                             |         | C1.                                                                                                             | -1    |

### HALOGENATED VOLATILES by EPA 8260B page 2 of 2

| Lab ID:          |   |
|------------------|---|
| <b>Client ID</b> | : |

07-041-48 VE2-15-16.5

|     |                                       |         | the first second second |       |
|-----|---------------------------------------|---------|-------------------------|-------|
|     | Compound                              | Results | Flags                   | PQL   |
|     | Dibromochloromethane                  | ND      |                         | 0.063 |
|     | 1,2-Dibromoethane                     | ND      | 이 동생 같은 것               | 0.063 |
|     | Chlorobenzene                         | ND      |                         | 0.063 |
| ŝ   | 1,1,1,2-Tetrachloroethane             | ND      | ा ्रिये स्थिति ह        | 0.063 |
| 9   | Bromoform                             | ND .    | , 비, 노르 말 봐             | 0.063 |
|     | Bromobenzene                          | ND      |                         | 0.063 |
|     | 1,1,2,2-Tetrachloroethane             | ND      |                         | 0.063 |
|     | 1,2,3-Trichloropropane                | ND      | al Xaring               | 0.063 |
| i); | 2-Chlorotoluene                       | ND      |                         | 0.063 |
|     | 4-Chlorotoluene                       | ND      | 1. 문양(제 201             | 0.063 |
| ł   | 1,3-Dichlorobenzene                   | ND      | and C. K.a.             | 0.063 |
|     | 1,4-Dichlorobenzene                   | ND      | 요. 정수 요?                | 0.063 |
| ġ   | 1,2-Dichlorobenzene                   | ND      | 이 않는다. 연                | 0.063 |
|     | 1,2-Dibromo-3-chloropropane           | ND      | ું અને આ કે મુજર        | 0.32  |
|     | 1,2,4-Trichlorobenzene                | ND      | 승규는 영향하는                | 0.063 |
|     | Hexachlorobutadiene                   | ND      |                         | 0.32  |
|     | 1,2,3-Trichlorobenzene                | ND      |                         | 0.063 |
|     | · · · · · · · · · · · · · · · · · · · |         | <u> </u>                | 1.0 8 |

|                      |            | Per  | cent   |        | Control |
|----------------------|------------|------|--------|--------|---------|
| Surrogate            | s i n      | Reco | overy  | 영양 가슴- | Limits  |
| Dibromofluoromethane | 58 A 5     | 9    | 7      | ·      | 65-125  |
| Toluene-d8           | 입을 위한 것을 통 | 9    | 7 / 28 | - A    | 77-116  |
| 4-Bromofluorobenzene |            | i 10 | 02     | 12.5   | 67-133  |

### HALOGENATED VOLATILES by EPA 8260B page 1 of 2

| Date Extracted: | 7-19-00          |
|-----------------|------------------|
| Date Analyzed:  | 7-21-00          |
| Matrix:         | . Soil           |
| Units:          | mg/Kg (ppm)      |
| Lab ID:         | 07-041-50        |
| Client ID:      | <b>VE5-5-6.5</b> |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>D</b>   | 이 무엇을 가?          | DOL   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------|-------|
| Compound                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Results    | Flags             | PQL   |
| Dichlorodifluoromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ND         |                   | 0.062 |
| Chloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ND         | 이번 회율성            | 0.062 |
| Vinyl Chloride                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ND         | 나 쓰기 않죠.          | 0.062 |
| Bromomethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ND         | i pagi di si paĝi | 0.062 |
| Chloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ND         |                   | 0.062 |
| Trichlorofluoromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ND C       |                   | 0.062 |
| 1,1-Dichloroethene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ND         | and a second      | 0.062 |
| Methylene Chloride                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.38       | 新日日の              | 0.31  |
| (trans) 1,2-Dichloroethene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ND         | 机试验试验证            | 0.062 |
| 1,1-Dichloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ND         |                   | 0.062 |
| 2,2-Dichloropropane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ND         |                   | 0.062 |
| (cis) 1,2-Dichloroethene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ND         |                   | 0.062 |
| Chloroform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ND         |                   | 0.062 |
| 1,1,1-Trichloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ND         |                   | 0.062 |
| Carbon Tetrachloride                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ND         | 한 같은 물을 걸었다.      | 0.062 |
| 1,1-Dichloropropene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ND         |                   | 0.062 |
| 1,2-Dichloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ND         |                   | 0.062 |
| Trichloroethene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ND         |                   | 0.062 |
| 1,2-Dichloropropane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ND         | - 전기 성격을 갖        | 0.062 |
| Dibromomethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ND         | 김 씨는 이 날아요?       | 0.062 |
| Bromodichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ND         |                   | 0.062 |
| 2-Chloroethyl Vinyl Ether                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ND         |                   | 0.31  |
| (cis) 1,3-Dichloropropene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ND         | 영화가 물건가 다 같아.     | 0.062 |
| (trans) 1,3-Dichloropropene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ND         | 비가, 2011, 전화      | 0.062 |
| 1,1,2-Trichloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ND         | 1997 - S. 1       | 0.062 |
| Tetrachloroethene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.17       | 8 8 8 8<br>6 10 0 | 0.062 |
| 1,3-Dichloropropane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ND         | S                 | 0.062 |
| the minimum brokening to the state of the st | 1 10000040 | · . 8             |       |

#### HALOGENATED VOLATILES by EPA 8260B page 2 of 2

|   | ° ad≜ n nSa                 | ' 같아요. 승규는 문 |                                          |            |
|---|-----------------------------|--------------|------------------------------------------|------------|
|   | Lab ID:                     | 07-041-50    | 양요 같은 말 다 나는 것                           | £1         |
|   | Client ID:                  | VE5-5-6.5    |                                          |            |
|   |                             | 감정이 물러 집 것   |                                          |            |
|   | Compound                    | Resul        | ts Flags F                               | PQL        |
|   | Dibromochloromethane        | ND           | 0.                                       | .062       |
|   | 1,2-Dibromoethane           | ND           | 0.                                       | .062       |
|   | Chlorobenzene               | ND           | 0.                                       | .062       |
| 5 | 1,1,1,2-Tetrachloroethane   | ND           | 0.                                       | .062       |
|   | Bromoform                   | ND           | 0.                                       | .062       |
|   | Bromobenzene                | ND           | 0.                                       | .062       |
|   | 1,1,2,2-Tetrachloroethane   | ND           | 0.                                       | .062       |
|   | 1,2,3-Trichloropropane      | ND           | 0.                                       | .062       |
|   | 2-Chlorotoluene             | ND           | , 0.                                     | .062       |
|   | 4-Chlorotoluene             | ND           | 0.                                       | .062       |
|   | 1,3-Dichlorobenzene         | ND           | 0.                                       | .062       |
|   | 1,4-Dichlorobenzene         | ND           | 0.                                       | .062       |
|   | 1,2-Dichlorobenzene         | ND           | 0.                                       | .062       |
|   | 1,2-Dibromo-3-chloropropane | ND ND        | 0                                        | .31        |
|   | 1,2,4-Trichlorobenzene      | ND           | 0.                                       | 062        |
|   | Hexachlorobutadiene         | ND           |                                          | .31        |
| 1 | 1,2,3-Trichlorobenzene      | ND           | 0.                                       | .062       |
|   |                             |              | 10 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T | - 12 I I I |

|                      | the first state of the second s                                         | ji sali nak | 가장 이 것이 많이 없는 것이 같아.     |         |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------|---------|
|                      | s and prove of the second                                                                                                                               | Percent     | 1000 C                   | Control |
| Surrogate            |                                                                                                                                                         | Recovery    |                          | Limits  |
| Dibromofluoromethane | ja kan karing pining na karing pina.<br>Nga kana karing pining pina karing pina | 98          | 19 <u>-</u> 19 - 19 - 19 | 65-125  |
| Toluene-d8           |                                                                                                                                                         | 99 -        | * ja ji                  | 77-116  |
| 4-Bromofluorobenzene | 말 승규가 드러?                                                                                                                                               | 106         | ಟ ಕಿಂದ್ರತ್               | 67-133  |

#### HALOGENATED VOLATILES by EPA 8260B page 1 of 2

| Date Extracted:<br>Date Analyzed: | 7-19-00<br>7-21-00     | 1     |
|-----------------------------------|------------------------|-------|
| Matrix:<br>Units:                 | Soil<br>mg/Kg (ppm)    | 2 2 2 |
| Lab ID:<br>Client ID:             | 07-041-52<br>VE5-15-16 |       |

| Guent ID.                   |         | 한 동안은 일이 다.                                |       |
|-----------------------------|---------|--------------------------------------------|-------|
| Compound                    | Results | Flags                                      | PQL   |
| Dichlorodifluoromethane     | ND      |                                            | 0.063 |
| Chloromethane               | ND      |                                            | 0.063 |
| Vinyl Chloride              | ND      |                                            | 0.063 |
| Bromomethane                | ND      |                                            | 0.063 |
| Chloroethane                | ND      |                                            | 0.063 |
| Trichlorofluoromethane      | ND      | 이 같은 요즘 것을 물었다.                            | 0.063 |
| 1,1-Dichloroethene          | ND and  | a Arry Par                                 | 0.063 |
| Methylene Chloride          | 0.36    | H                                          | 0.32  |
| (trans) 1,2-Dichloroethene  | ND      | 한 김 가슴 물건                                  | 0.063 |
| 1,1-Dichloroethane          | ND      |                                            | 0.063 |
| 2,2-Dichloropropane         | ND      | th Diff. g.                                | 0.063 |
| (cis) 1,2-Dichloroethene    | ND      |                                            | 0.063 |
| Chloroform                  | ND      |                                            | 0.063 |
| 1,1,1-Trichloroethane       | ND      |                                            | 0.063 |
| Carbon Tetrachloride        | ND:     | , 연습                                       | 0.063 |
| 1,1-Dichloropropene         | ND      | ultin si gitan di ji<br>Angla si si seconi | 0.063 |
| 1,2-Dichloroethane          | ND      |                                            | 0.063 |
| Trichloroethene             | ND      | 있는 가장이 못                                   | 0.063 |
| 1,2-Dichloropropane         | ND      | 네 가지 않고 바람한                                | 0.063 |
| Dibromomethane              | ND      | i i                                        | 0.063 |
| Bromodichloromethane        | ND      |                                            | 0.063 |
| 2-Chloroethyl Vinyl Ether   | ND      | 친구 같이 크                                    | 0.32  |
| (cis) 1,3-Dichloropropene   | ND      |                                            | 0.063 |
| (trans) 1,3-Dichloropropene | ND      |                                            | 0.063 |
| 1,1,2-Trichloroethane       | ND      | fa y ja sag                                | 0.063 |
| Tetrachloroethene           | 0.97    | 그는 말 말 못                                   | 0.063 |
| 1,3-Dichloropropane         | ND      |                                            | 0.063 |
|                             |         | 14 N 11 N 11 N 11 N 11                     |       |

#### HALOGENATED VOLATILES by EPA 8260B page 2 of 2

|   |                             |         | 1 1 20 Z                                                                                                        |
|---|-----------------------------|---------|-----------------------------------------------------------------------------------------------------------------|
|   | Lab ID: 07-04               | 41-52   | - 141 - 141 - 141 - 141 - 141 - 141 - 141 - 141 - 141 - 141 - 141 - 141 - 141 - 141 - 141 - 141 - 141 - 141 - 1 |
|   | Client ID: VE5-             | 15-16   |                                                                                                                 |
|   |                             |         |                                                                                                                 |
|   | Compound                    | Results | Flags PQL                                                                                                       |
|   | Dibromochloromethane        | ND      | 0.063                                                                                                           |
|   | 1,2-Dibromoethane           | ND      | 0.063                                                                                                           |
|   | Chlorobenzene               | ND      | 0.063                                                                                                           |
|   | 1,1,1,2-Tetrachloroethane   | ND      | 0.063                                                                                                           |
| ľ | Bromoform                   | ND      | 0.063                                                                                                           |
| ł | Bromobenzene                | ND .    | 0.063                                                                                                           |
|   | 1,1,2,2-Tetrachloroethane   | ND .    | 0.063                                                                                                           |
|   | 1,2,3-Trichloropropane      | ND      | 0.063                                                                                                           |
| 2 | 2-Chlorotoluene             | ND      | 0.063                                                                                                           |
|   | 4-Chlorotoluene             | ND      | 0.063                                                                                                           |
| ï | 1,3-Dichlorobenzene         | ND      | 0.063                                                                                                           |
|   | 1,4-Dichlorobenzene         | ND      | 0.063                                                                                                           |
| 1 | 1,2-Dichlorobenzene         | ND      | 0.063                                                                                                           |
| 1 | 1,2-Dibromo-3-chloropropane | ND      | 0.32                                                                                                            |
|   | 1,2,4-Trichlorobenzene      | ND      | 0.063 -                                                                                                         |
|   | Hexachlorobutadiene         | ND      | 0.32                                                                                                            |
|   | 1,2,3-Trichlorobenzene      | ND      | 0.063                                                                                                           |

|                | in the state of | Percent  | Control |
|----------------|-----------------|----------|---------|
| Surrogate      |                 | Recovery | Limits  |
| Dibromofluoron | nethane         | 96       | 65-125  |
| Toluene-d8     |                 | 97       | 77-116  |
| 4-Bromofluorob | enzene          | 97       | 67-133  |
|                |                 | 1        |         |

#### HALOGENATED VOLATILES by EPA 8260B page 1 of 2

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| Date Extracted: | 7-19-00     |
|-----------------|-------------|
| Date Analyzed:  | 7-21-00     |
| Matrix:         | Soil        |
| Units:          | mg/Kg (ppm) |
| Lab ID:         | 07-041-53   |
| Client ID:      | MW1-2 5-3 5 |

|                                                                                                                 |         |                  | · · · · · |
|-----------------------------------------------------------------------------------------------------------------|---------|------------------|-----------|
| Compound                                                                                                        | Results | Flags            | PQL       |
| Dichlorodifluoromethane                                                                                         | ND      |                  | 0.060     |
| Chloromethane                                                                                                   | ND      |                  | 0.060     |
| Vinyl Chloride                                                                                                  | ND      |                  | 0.060     |
| Bromomethane                                                                                                    | ND      |                  | 0.060     |
| Chloroethane                                                                                                    | ND      |                  | 0.060     |
| Trichlorofluoromethane                                                                                          | ND      |                  | 0.060     |
| 1,1-Dichloroethene                                                                                              | ND      |                  | 0.060     |
| Methylene Chloride                                                                                              | 0.38    | · 같은 H 가운 것      | 0.30      |
| (trans) 1,2-Dichloroethene                                                                                      | ND      | 성 무명화 문          | 0.060     |
| 1,1-Dichloroethane                                                                                              | ND      |                  | 0.060     |
| 2,2-Dichloropropane                                                                                             | ND      | 김 사람 내내          | 0.060     |
| (cis) 1,2-Dichloroethene                                                                                        | ND      |                  | 0.060     |
| Chloroform                                                                                                      | ND -    |                  | 0.060     |
| 1,1,1-Trichloroethane                                                                                           | ND      | je juga staralij | 0.060     |
| Carbon Tetrachloride                                                                                            | ND      |                  | 0.060     |
| 1,1-Dichloropropene                                                                                             | ND      |                  | 0.060     |
| 1,2-Dichloroethane                                                                                              | ND      | 그 전문 성 관계        | 0.060     |
| Trichloroethene                                                                                                 | ND      |                  | 0.060     |
| 1,2-Dichloropropane                                                                                             | ND .    |                  | 0.060     |
| Dibromomethane                                                                                                  | ND      | af et de se      | 0.060     |
| Bromodichloromethane                                                                                            | ND      |                  | 0.060     |
| 2-Chloroethyl Vinyl Ether                                                                                       | ND      |                  | 0.30      |
| (cis) 1,3-Dichloropropene                                                                                       | ND      |                  | 0.060     |
| (trans) 1,3-Dichloropropene                                                                                     | ND      | 이 가장 소망          | 0.060     |
| 1,1,2-Trichloroethane                                                                                           | ND      | the price of     | 0.060     |
| Tetrachioroethene                                                                                               | 1.8     |                  | 0.060     |
| 1,3-Dichloropropane                                                                                             | ND      | 2 BC 1           | 0.060     |
| 5 A 4 5 A 4 5 A 4 5 A 4 5 A 4 5 A 4 5 A 4 5 A 4 5 A 4 5 A 4 5 A 4 5 A 4 5 A 4 5 A 4 5 A 4 5 A 4 5 A 4 5 A 4 5 A | 10. No  | 6 K. S. S. S.    |           |

#### HALOGENATED VOLATILES by EPA 8260B page 2 of 2

| Lab ID:    | 07-041-53       |
|------------|-----------------|
| Client ID: | <br>MW1-2.5-3.5 |

|    |                             |         | (a) (1) * Car   |       |
|----|-----------------------------|---------|-----------------|-------|
|    | Compound                    | Results | Flags           | PQL   |
|    | Dibromochloromethane        | ND .    |                 | 0.060 |
|    | 1,2-Dibromoethane           | ND      |                 | 0.060 |
| s, | Chlorobenzene               | ND      |                 | 0.060 |
|    | 1,1,1,2-Tetrachioroethane   | ND      | Million Robert  | 0.060 |
|    | Bromoform                   | ND      | 요즘 물건물건 같아?     | 0.060 |
|    | Bromobenzene                | ND      | स्थी य दिन्द्री | 0.060 |
|    | 1,1,2,2-Tetrachloroethane   | ND      | A20.            | 0.060 |
|    | 1,2,3-Trichloropropane      | ND      | <u> 기억</u> 문문   | 0.060 |
|    | 2-Chlorotoluene             | ND      |                 | 0.060 |
| 4  | 4-Chlorotoluene             | ND      | - 18 Mar        | 0.060 |
| ÷  | 1,3-Dichlorobenzene         | ND      |                 | 0.060 |
|    | 1,4-Dichlorobenzene         | ND      | 신값 가 봐.         | 0.060 |
| Ì  | 1,2-Dichlorobenzene         | ND      | 승규는 감독 감독 감독    | 0.060 |
|    | 1,2-Dibromo-3-chloropropane | ND      |                 | 0.30  |
|    | 1,2,4-Trichlorobenzene      | ND      |                 | 0.060 |
| Ĵ  | Hexachlorobutadiene         | ND      | 이 같은 것 같아.      | 0.30  |
|    | 1,2,3-Trichlorobenzene      | ND      | 승규는 감독하는        | 0.060 |
|    |                             |         |                 |       |

|                      |                  | Percent  | Control | 9<br>( R |
|----------------------|------------------|----------|---------|----------|
| Surrogate            | gi shi ti shi ni | Recovery | Limits  | ň,       |
| Dibromofluoromethane |                  | 100      | 65-125  |          |
| Toluene-d8           | 친구 상태님이 같아. 이 나라 | 99       | 77-116  |          |
| 4-Bromofluorobenzene | 그는 영화를 알려.       | 105      | 67-133  |          |

### HALOGENATED VOLATILES by EPA 8260B page 1 of 2

Date Extracted: Date Analyzed:

Π

Γ

7-19-00 7-21-00

| Matrix:    | Soil                                     |
|------------|------------------------------------------|
| Units:     | mg/Kg (ppm)                              |
|            | e e an der <sup>e</sup> n ig an der eine |
| Lab ID:    | 07-041-62                                |
| Client ID: | MW1-35-35.5                              |

MW1-35-35.5

| · 가슴은 사람이 있는 것 같은 것 같 | '다양한 문 집 | 이 그렇다 이 것 같아.                                                                                                                                                                                                                                                                                                                                         |       |
|-----------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Compound                                            | Results  | Flags                                                                                                                                                                                                                                                                                                                                                 | PQL   |
| Dichlorodifluoromethane                             | ND       | 5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -                                                                                                                                                                                                                                                                                                               | 0.052 |
| Chloromethane                                       | ND       | a. <sup>68</sup> 19 .                                                                                                                                                                                                                                                                                                                                 | 0.052 |
| Vinyl Chloride                                      | ND       | N 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                              | 0.052 |
| Bromomethane                                        | ND       | 요즘 전문다.                                                                                                                                                                                                                                                                                                                                               | 0.052 |
| Chloroethane                                        | ND       | 한 동품은 학생들                                                                                                                                                                                                                                                                                                                                             | 0.052 |
| Trichlorofluoromethane                              | ND       | 요즘 손님들이                                                                                                                                                                                                                                                                                                                                               | 0.052 |
| 1,1-Dichloroethene                                  | ND       | 신청, 동 화관 문                                                                                                                                                                                                                                                                                                                                            | 0.052 |
| Methylene Chloride                                  | 0.31     | H                                                                                                                                                                                                                                                                                                                                                     | 0.26  |
| (trans) 1,2-Dichloroethene                          | ND       | 이 아이지 않                                                                                                                                                                                                                                                                                                                                               | 0.052 |
| 1,1-Dichloroethane                                  | ND       | 가슴을 걸었다.                                                                                                                                                                                                                                                                                                                                              | 0.052 |
| 2,2-Dichloropropane                                 | ND       |                                                                                                                                                                                                                                                                                                                                                       | 0.052 |
| (cis) 1,2-Dichloroethene                            | ND       |                                                                                                                                                                                                                                                                                                                                                       | 0.052 |
| Chloroform                                          | ND       |                                                                                                                                                                                                                                                                                                                                                       | 0.052 |
| 1,1,1-Trichloroethane                               | ND       |                                                                                                                                                                                                                                                                                                                                                       | 0.052 |
| Carbon Tetrachloride                                | ND       | 영업 사람이 있다.                                                                                                                                                                                                                                                                                                                                            | 0.052 |
| 1,1-Dichloropropene                                 | ND       | 방송 전 영상                                                                                                                                                                                                                                                                                                                                               | 0.052 |
| 1,2-Dichloroethane                                  | ND       |                                                                                                                                                                                                                                                                                                                                                       | 0.052 |
| Trichloroethene                                     | NĎ       | 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -<br>1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -<br>1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - | 0.052 |
| 1,2-Dichloropropane                                 | ND       | . 김희, 김종                                                                                                                                                                                                                                                                                                                                              | 0.052 |
| Dibromomethane                                      | ND       |                                                                                                                                                                                                                                                                                                                                                       | 0.052 |
| Bromodichloromethane                                | ND       |                                                                                                                                                                                                                                                                                                                                                       | 0.052 |
| 2-Chloroethyl Vinyl Ether                           | ND       |                                                                                                                                                                                                                                                                                                                                                       | 0.26  |
| (cis) 1,3-Dichloropropene                           | ND       |                                                                                                                                                                                                                                                                                                                                                       | 0.052 |
| (trans) 1,3-Dichloropropene                         | ND       | 그는 가장 가                                                                                                                                                                                                                                                                                                                                               | 0.052 |
| 1,1,2-Trichloroethane                               | ND       | , 문제 같음.                                                                                                                                                                                                                                                                                                                                              | 0.052 |
| Tetrachioroethene                                   | 0.35     | . 1. I.S.                                                                                                                                                                                                                                                                                                                                             | 0.052 |
| 1,3-Dichloropropane                                 | ND       | 그는 가슴을                                                                                                                                                                                                                                                                                                                                                | 0.052 |
| 지 않는 것 같은 것 같         | 2        |                                                                                                                                                                                                                                                                                                                                                       |       |

Lab ID:

Client ID:

#### HALOGENATED VOLATILES by EPA 8260B page 2 of 2

|    | ÷. | 07-041-62 |
|----|----|-----------|
| 20 |    | MW1-35-3  |

| Compound                    | Results Fla | gs PQL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dibromochloromethane        | ND          | 0.052                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1,2-Dibromoethane           | ND          | 0.052                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Chlorobenzene               | ND          | 0.052                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1,1,1,2-Tetrachloroethane   | ND          | 0.052                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Bromoform                   | ND          | 0.052                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Bromobenzene                | ND          | 0.052                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1,1,2,2-Tetrachloroethane   | ND          | 0.052                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1,2,3-Trichloropropane      | ND          | 0.052                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2-Chlorotoluene             | ND          | 0.052                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 4-Chlorotoluene             | ND          | 0.052                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1,3-Dichlorobenzene         | ND          | 0.052                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1,4-Dichlorobenzene         | ND          | 0.052                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1,2-Dichlorobenzene         | ND          | 0.052                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1,2-Dibromo-3-chloropropane | ND          | 0.26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 1,2,4-Trichlorobenzene      | ND          | 0.052                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Hexachlorobutadiene         | ND          | 0.26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 1,2,3-Trichlorobenzene      | ND          | 0.052                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| I CALENDARY Z HAVE          |             | Alter and the set of t |

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|   |                      | arts.   |              | P        | ercent  |            |           | Control |     |
|---|----------------------|---------|--------------|----------|---------|------------|-----------|---------|-----|
|   | Surrogate            | - R - R | 181.2        | Re       | ecovery |            |           | Limits  | - 2 |
|   | Dibromofluoromethane | * ಎೆ    | " 및 것 이 나는 것 |          | 100     | te di la   | 8.01,51   | 65-125  | - 3 |
| đ | Toluene-d8           | 151     | al fair a fr | 1.01     | 102     | 11 N N 100 | - 201<br> | 77-116  |     |
|   | 4-Bromofluorobenzene | 12.4    |              | 19 A. 19 | 103     | 1.20       | N - 6     | 67-133  | 1   |

#### HALOGENATED VOLATILES by EPA 8260B page 1 of 2

| Date Extracted: | 7-19-00               |  |
|-----------------|-----------------------|--|
| Date Analyzed:  | 7-21-00               |  |
| -               | 이 모든 것이 가장 이 있어요. 하는데 |  |
| Matrix:         | Soil                  |  |
| Units:          | mg/Kg (ppm)           |  |
| E               |                       |  |
| Lab ID:         | 07-041-64             |  |
| Client ID:      | MW1-45-45.5           |  |

: ID: MW1-45-45.5

| 2 | Compound                    | Results | Flags              | PQL   |
|---|-----------------------------|---------|--------------------|-------|
|   | Dichlorodifluoromethane     | ND      | 1.1.1              | 0.054 |
|   | Chloromethane               | ND      |                    | 0.054 |
|   | Vinyl Chloride              | ND      |                    | 0.054 |
|   | Bromomethane                | ND      | 전 문화 관리            | 0.054 |
|   | Chloroethane                | ND      |                    | 0.054 |
|   | Trichlorofluoromethane      | ND      | 전 소문화가             | 0.054 |
| 1 | 1,1-Dichloroethene          | ND      |                    | 0.054 |
|   | Methylene Chloride          | 0.33    | E H                | 0.27  |
|   | (trans) 1,2-Dichloroethene  | ND      | 17 Mar (19         | 0.054 |
|   | 1,1-Dichloroethane          | ND      | 9. X. U            | 0.054 |
|   | 2,2-Dichloropropane         | ND      |                    | 0.054 |
|   | (cis) 1,2-Dichloroethene    | ND      |                    | 0.054 |
|   | Chloroform                  | ND      |                    | 0.054 |
|   | 1,1,1-Trichloroethane       | ND      |                    | 0.054 |
|   | Carbon Tetrachloride        | ND      | an gin gi          | 0.054 |
|   | 1,1-Dichloropropene         | ND      |                    | 0.054 |
|   | 1,2-Dichloroethane          | ND      |                    | 0.054 |
|   | Trichloroethene             | ND      | -2 M               | 0.054 |
| Ŷ | 1,2-Dichloropropane         | ND      |                    | 0.054 |
|   | Dibromomethane              | ND      | e sette e se la se | 0.054 |
|   | Bromodichloromethane        | ND      |                    | 0.054 |
|   | 2-Chloroethyl Vinyl Ether   | ND      |                    | 0.27  |
|   | (cis) 1,3-Dichloropropene   | ND      |                    | 0.054 |
|   | (trans) 1,3-Dichloropropene | ND      | ್ಷ ಿಷ್ಟ್           | 0.054 |
|   | 1,1,2-Trichloroethane       | ND      | an g               | 0.054 |
|   | Tetrachloroethene           | 0.21    | e the second       | 0.054 |
|   | 1,3-Dichloropropane         | ND      | 141                | 0.054 |
|   |                             |         |                    |       |

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### HALOGENATED VOLATILES by EPA 8260B page 2 of 2

| Lab ID:                     | 07-041-64     |        |
|-----------------------------|---------------|--------|
| Client ID:                  | MW1-45-45.5   |        |
|                             |               |        |
| Compound                    | Results Flags | PQL    |
| Dibromochloromethane        | ND            | ÷0.054 |
| 1,2-Dibromoethane           | ND            | 0.054  |
| Chlorobenzene               | ND            | 0.054  |
| 1,1,1,2-Tetrachloroethane   | ND            | 0.054  |
| Bromoform                   | ND            | 0.054  |
| Bromobenzene                | ND            | 0.054  |
| 1,1,2,2-Tetrachloroethane   | ND            | .0.054 |
| 1,2,3-Trichloropropane      | ND            | 0.054  |
| 2-Chlorotoluene             | ND            | 0.054  |
| 4-Chlorotoluene             | ND            | 0.054  |
| 1,3-Dichlorobenzene         | ND            | 0.054  |
| 1,4-Dichlorobenzene         | ND            | 0.054  |
| 1,2-Dichlorobenzene         | ND            | 0.054  |
| 1,2-Dibromo-3-chloropropane | ND            | 0.27   |
| 1,2,4-Trichlorobenzene      | ND            | 0.054  |
| Hexachlorobutadiene         | ND            | 0.27   |
| 1,2,3-Trichlorobenzene      | ND            | 0.054  |

|                      | 이 이상 이상은 | Percent  | Control |
|----------------------|----------|----------|---------|
| Surrogate            |          | Recovery | Limits  |
| Dibromofluoromethane |          | 98       | 65-125  |
| Toluene-d8           |          | 97       | 77-116  |
| 4-Bromofluorobenzene |          | 100      | 67-133  |

### HALOGENATED VOLATILES by EPA 8260B page 1 of 2

Date Extracted: Date Analyzed: 7-19-00 7-21-00

Matrix: Units:

Soil mg/Kg (ppm) 07-041-68

Client ID:

Lab ID:

VE1-7.5-9

| Compound                    | Results | Flags                              | PQL   |
|-----------------------------|---------|------------------------------------|-------|
| Dichlorodifluoromethane     | ND      |                                    | 0.057 |
| Chloromethane               | ND      | . 91 96 M 3                        | 0.057 |
| Vinyl Chloride              | ND      | Set in def                         | 0.057 |
| Bromomethane                | ND      | 100                                | 0.057 |
| Chloroethane                | ND      | 아이는 것이 같이 많이 많이 많이 했다.             | 0.057 |
| Trichlorofluoromethane      | ND      |                                    | 0.057 |
| 1,1-Dichloroethene          | ND      |                                    | 0.057 |
| Methylene Chloride          | 0.37    | H                                  | 0.28  |
| (trans) 1,2-Dichloroethene  | ND      | 10년 문가님                            | 0.057 |
| 1,1-Dichloroethane          | ND      | la she ut                          | 0.057 |
| 2,2-Dichloropropane         | ND      |                                    | 0.057 |
| (cis) 1,2-Dichloroethene    | ND      |                                    | 0.057 |
| Chloroform                  | ND      |                                    | 0.057 |
| 1,1,1-Trichloroethane       | ND      |                                    | 0.057 |
| Carbon Tetrachloride        | ND      |                                    | 0.057 |
| 1,1-Dichloropropene         | ND      |                                    | 0.057 |
| 1,2-Dichloroethane          | ND      | 400 La 1                           | 0.057 |
| Trichloroethene             | ND      | ા અંદને છે.                        | 0.057 |
| 1,2-Dichloropropane         | ND      | 에 다 다 다 다 다 다.<br>이 다 다 다 다 다 다 다. | 0.057 |
| Dibromomethane              | ND      | 이 것도 같아.                           | 0.057 |
| Bromodichloromethane        | ND      | 11 No. 150                         | 0.057 |
| 2-Chloroethyl Vinyl Ether   | ND      |                                    | 0.28  |
| (cis) 1,3-Dichloropropene   | ND      | 1979, 1989 (M                      | 0.057 |
| (trans) 1,3-Dichloropropene | ND      |                                    | 0.057 |
| 1,1,2-Trichloroethane       | ND      |                                    | 0.057 |
| Tetrachloroethene           | 0.18    | 동네, 상                              | 0.057 |
| 1,3-Dichloropropane         | ND      |                                    | 0.057 |
|                             | 00 S A  | 141 - COT                          |       |

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### HALOGENATED VOLATILES by EPA 8260B page 2 of 2

|    |                             | N . R                                                          | PF 12           | 5 G                                       |       |
|----|-----------------------------|----------------------------------------------------------------|-----------------|-------------------------------------------|-------|
|    | Lab ID:                     | 07-041-68                                                      |                 |                                           |       |
|    | Client ID:                  | VE1-7.5-9                                                      | 8. <sup>0</sup> | e Marie II. (* 1                          |       |
|    | 9                           |                                                                |                 |                                           |       |
|    | Compound                    | 이 있는 것이 같아.                                                    | Results         | Flags                                     | PQL   |
|    | Dibromochloromethane        |                                                                | ND              |                                           | 0.057 |
|    | 1,2-Dibromoethane           |                                                                | ND              | 이 같은 것이 같이 같이 같이 같이 같이 같이 않는 것이 같이 많이 했다. | 0.057 |
|    | Chlorobenzene               |                                                                | ND              |                                           | 0.057 |
| ć  | 1,1,1,2-Tetrachloroethane   | 이 있는 사람이 있는 것                                                  | ND              | 변화 관람들었다                                  | 0.057 |
|    | Bromoform                   | 요즘 것 같은 것 같은 것 같은 것이 같이 많이 | ND              | 한 것 일 한 같았는                               | 0.057 |
|    | Bromobenzene                | ಎ.ಎ.ರಿಕ                                                        | ND              | 고 있는 것을 많을 때                              | 0.057 |
|    | 1,1,2,2-Tetrachloroethane   |                                                                | ND              |                                           | 0.057 |
|    | 1,2,3-Trichloropropane      |                                                                | ND              |                                           | 0.057 |
| 0  | 2-Chlorotoluene             |                                                                | ND              |                                           | 0.057 |
|    | 4-Chlorotoluene             |                                                                | ND              |                                           | 0.057 |
| i. | 1,3-Dichlorobenzene         |                                                                | ND              |                                           | 0.057 |
|    | 1,4-Dichlorobenzene         |                                                                | ND              |                                           | 0.057 |
|    | 1,2-Dichlorobenzene         | 승규는 것 생각하                                                      | ND              |                                           | 0.057 |
|    | 1,2-Dibromo-3-chloropropane |                                                                | ND 🗧            |                                           | 0.28  |
|    | 1,2,4-Trichlorobenzene      | 2 2 2 2 2 2                                                    | ND              | 영남 말았고 않는                                 | 0.057 |
|    | Hexachlorobutadiene         |                                                                | ND              | 188 Tarrent of                            | 0.28  |
|    | 1,2,3-Trichlorobenzene      |                                                                | ND              |                                           | 0.057 |
|    |                             |                                                                |                 |                                           |       |

| Percent                  | Control |
|--------------------------|---------|
| Surrogate Recovery       | Limits  |
| Dibromofluoromethane 99  | 65-125  |
| Toluene-d8 99            | 77-116  |
| 4-Bromofluorobenzene 101 | 67-133  |

### HALOGENATED VOLATILES by EPA 8260B page 1 of 2

| 7-19-00       |
|---------------|
| 7-21-00       |
| 그는 것 같은 것 같아. |
| Soil          |
| mg/Kg (ppm)   |
|               |
| 07-041-71     |
| VE1-15-16.5   |
|               |

|                             | and the second | E.1.5.8 (0100.007) |       |
|-----------------------------|------------------------------------------------------------------------------------------------------------------|--------------------|-------|
| Compound                    | Results                                                                                                          | Flags              | PQL   |
| Dichlorodifluoromethane     | ND                                                                                                               |                    | 0.057 |
| Chloromethane               | ND                                                                                                               |                    | 0.057 |
| Vinyl Chloride              | ND                                                                                                               |                    | 0.057 |
| Bromomethane                | ND                                                                                                               | ~ 그렇게 말했다.         | 0.057 |
| Chloroethane                | ND                                                                                                               |                    | 0.057 |
| Trichlorofluoromethane      | ND                                                                                                               |                    | 0.057 |
| 1,1-Dichloroethene          | ND                                                                                                               | 김 날아와는 것이          | 0.057 |
| Methylene Chloride          | 0.35                                                                                                             | , s≞H) si          | 0.29  |
| (trans) 1,2-Dichloroethene  | ND                                                                                                               |                    | 0.057 |
| 1,1-Dichloroethane          | ND                                                                                                               |                    | 0.057 |
| 2,2-Dichloropropane         | ND                                                                                                               | Section Section    | 0.057 |
| (cis) 1,2-Dichloroethene    | ND                                                                                                               |                    | 0.057 |
| Chloroform                  | ND                                                                                                               |                    | 0.057 |
| 1,1,1-Trichloroethane       | ND                                                                                                               |                    | 0.057 |
| Carbon Tetrachloride        | ND                                                                                                               |                    | 0.057 |
| 1,1-Dichloropropene         | ND                                                                                                               |                    | 0.057 |
| 1,2-Dichloroethane          | ND                                                                                                               |                    | 0.057 |
| Trichloroethene             | ND                                                                                                               | 일시 사내 같은           | 0.057 |
| 1,2-Dichloropropane         | ND                                                                                                               |                    | 0.057 |
| Dibromomethane              | ND                                                                                                               |                    | 0.057 |
| Bromodichloromethane        | ND                                                                                                               |                    | 0.057 |
| 2-Chloroethyl Vinyl Ether   | ND "                                                                                                             | 이 전에 지난 것이         | 0.29  |
| (cis) 1,3-Dichloropropene   | ND                                                                                                               | 이야지 않는 것 같아.       | 0.057 |
| (trans) 1,3-Dichloropropene | ND                                                                                                               | ಷ್ಟ ವಿಷಣ           | 0.057 |
| 1,1,2-Trichloroethane       | ND                                                                                                               | 1 8 P              | 0.057 |
| Tetrachloroethene           | 0.13                                                                                                             |                    | 0.057 |
| 1,3-Dichloropropane         | ND                                                                                                               | line i de          | 0.057 |
| 1 (f., an a c. a., in a     | 8                                                                                                                | S211               |       |

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#### HALOGENATED VOLATILES by EPA 8260B page 2 of 2

|    |                                                   | 2. 8    | No. 21                | 12    |
|----|---------------------------------------------------|---------|-----------------------|-------|
|    | Lab ID: 07-041-71                                 |         | Carl Strand Stra      |       |
|    | Client ID: VE1-15-16.5                            |         | , 에너지 않는 않는           |       |
|    |                                                   | 왜 관람    |                       |       |
|    | Compound                                          | Results | Flags                 | PQL   |
|    | Dibromochloromethane                              | ND      |                       | 0.057 |
|    | 1,2-Dibromoethane                                 | ND      |                       | 0.057 |
|    | Chlorobenzene                                     | ND      |                       | 0.057 |
|    | 1,1,1,2-Tetrachloroethane                         | ND ND   |                       | 0.057 |
| 1  | Bromoform                                         | ND      |                       | 0.057 |
|    | Bromobenzene                                      | ND      | 2                     | 0.057 |
|    | 1,1,2,2-Tetrachloroethane                         | ND      |                       | 0.057 |
|    | 1,2,3-Trichloropropane                            | ND      |                       | 0.057 |
| 1  | 2-Chlorotoluene                                   | ND      | 있는 신입 모네              | 0.057 |
| 1  | 4-Chlorotoluene                                   | ND      |                       | 0.057 |
|    | 1,3-Dichlorobenzene                               | ND      |                       | 0.057 |
|    | 1,4-Dichlorobenzene                               | ND      |                       | 0.057 |
| ų, | 1,2-Dichlorobenzene                               | ND      |                       | 0.057 |
| 3  | 1,2-Dibromo-3-chloropropane                       | ND      |                       | 0.29  |
|    | 1,2,4-Trichlorobenzene                            | ND      | 상태는 일상 다양한            | 0.057 |
|    | Hexachlorobutadiene                               | ND      |                       | 0.29  |
|    | 1,2,3-Trichlorobenzene                            | ND      |                       | 0.057 |
|    | 그는 것 같은 것 같은 것 같은 것 같은 것 같은 것 같은 것 같이 있는 것 같이 없다. |         | 1477 T.S. 744 (B. 11) |       |

| an e         |          |             | Percent  | St. 6. 8                             | Control | 1        |
|--------------|----------|-------------|----------|--------------------------------------|---------|----------|
| Surrogate    |          |             | Recovery | 2021 - 2022 202<br>12 - 22 - 22 - 20 | Limits  |          |
| Dibromofluor | omethane |             | 98       |                                      | 65-125  | 5<br>142 |
| Toluene-d8   |          | - 198 de 14 | 100      |                                      | 77-116  |          |
| 4-Bromofluor | obenzene |             | 101      |                                      | 67-133  |          |

#### HALOGENATED VOLATILES by EPA 8260B METHOD BLANK QUALITY CONTROL page 1 of 2

Date Extracted: Date Analyzed: 7-19-00 7-19-00

Matrix: Units: Soil mg/Kg (ppm)

Lab ID:

MB0719S1

| 2 | 그는 그는 것을 가지 않는 것이 없는 것이 없는 것이 없는 것이 없다. | S. 194 - 194 (S. 194 | 이 같은 것 같아요.                                    | 1042 H. 12 |
|---|-----------------------------------------|----------------------|------------------------------------------------|------------|
|   | Compound                                | Results              | Flags                                          | PQL        |
|   | Dichlorodifluoromethane                 | ND                   |                                                | 0.050      |
|   | Chloromethane                           | ND                   |                                                | 0.050      |
|   | Vinyl Chloride                          | ND                   |                                                | 0.050      |
|   | Bromomethane                            | ND                   | ne pê si h                                     | 0.050      |
|   | Chloroethane                            | ND                   |                                                | 0.050      |
|   | Trichlorofluoromethane                  | ND                   |                                                | 0.050      |
|   | 1,1-Dichloroethene                      | ND                   | 물일 같은 그는 승규가                                   | 0.050      |
|   | Methylene Chloride                      | ND                   | 2 (a. 2017) (a. 2017)<br>1 (a. 2017) (a. 2017) | 0.25       |
|   | (trans) 1,2-Dichloroethene              | ND                   |                                                | 0.050      |
|   | 1,1-Dichloroethane                      | ND                   | 한 것을 위해 있는                                     | 0.050      |
|   | 2,2-Dichloropropane                     | ND                   |                                                | 0.050      |
|   | (cis) 1,2-Dichloroethene                | ND                   |                                                | 0.050      |
| ÷ | Chloroform                              | ND                   |                                                | 0.050      |
|   | 1,1,1-Trichloroethane                   | ND                   | Sine Ay Dollare                                | 0.050      |
|   | Carbon Tetrachloride                    | ND                   |                                                | 0.050      |
|   | 1,1-Dichloropropene                     | ND                   |                                                | 0.050      |
|   | 1,2-Dichloroethane                      | ND                   |                                                | 0.050      |
|   | Trichloroethene                         | ND                   |                                                | 0.050      |
|   | 1,2-Dichloropropane                     | ND                   |                                                | 0.050      |
|   | Dibromomethane                          | ND                   |                                                | 0.050      |
|   | Bromodichloromethane                    | ND                   |                                                | 0.050      |
|   | 2-Chloroethyl Vinyl Ether               | ND .                 | Ar she                                         | 0.25       |
|   | (cis) 1,3-Dichloropropene               | ND                   | 4,53                                           | 0.050      |
|   | (trans) 1,3-Dichloropropene             | ND                   |                                                | 0.050      |
|   | 1,1,2-Trichloroethane                   | ND                   |                                                | 0.050      |
|   | Tetrachloroethene                       | ND                   | 1 N. M. C.                                     | 0.050      |
|   | 1,3-Dichloropropane                     | ND                   |                                                | 0.050      |
|   | 22 K K K I K                            |                      | 14 <u>1</u> 18 4                               |            |

#### HALOGENATED VOLATILES by EPA 8260B METHOD BLANK QUALITY CONTROL page 2 of 2

Lab ID:

#### MB0719S1

|                             | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 |                                       |         | ί.      |
|-----------------------------|------------------------------------------|---------------------------------------|---------|---------|
| Compound                    | Results                                  | Flags                                 | PQL     |         |
| Dibromochloromethane        | ND                                       |                                       | 0.050   | 8       |
| 1,2-Dibromoethane           | ND                                       | 비행 이 같은 것이 같은 것이 없다.                  | 0.050   | Ĭ       |
| Chlorobenzene               | ND                                       | 이 집에 누구 안 하는 것                        | 0.050   | ii<br>G |
| 1,1,1,2-Tetrachloroethane   | ND                                       |                                       | 0.050   | 25      |
| Bromoform                   | ND                                       |                                       | 0.050 🍈 |         |
| Bromobenzene                | ND                                       | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 0.050   |         |
| 1,1,2,2-Tetrachloroethane   | ND                                       |                                       | 0.050   |         |
| 1,2,3-Trichloropropane      | ND                                       |                                       | 0.050   | £       |
| 2-Chlorotoluene             | ND                                       |                                       | 0.050   | ŝ       |
| 4-Chlorotoluene             | ND                                       |                                       | 0.050   | 1       |
| 1,3-Dichlorobenzene         | ND                                       |                                       | 0.050   |         |
| 1,4-Dichlorobenzene         | ND                                       |                                       | 0.050   |         |
| 1,2-Dichlorobenzene         | ND                                       | 가슴아가슴                                 | 0.050   | ģ       |
| 1,2-Dibromo-3-chloropropane | ND                                       |                                       | 0.25    | ł       |
| 1,2,4-Trichlorobenzene      | ND                                       | s Stribe Caralis                      | 0.050   | Ĵ       |
| Hexachlorobutadiene         | ND                                       | 성장 나라 유민들이 있어?                        | 0.25    | 1       |
| 1,2,3-Trichlorobenzene      | ND                                       |                                       | 0.050   | ł,      |
|                             | 같아. 뭐는 가는 것 같아.                          | State of a second second second       |         |         |

|                      | Percent  | Control |
|----------------------|----------|---------|
| Surrogate            | Recovery | Limits  |
| Dibromofluoromethane | 108      | 65-125  |
| Toluene-d8           | 100      | 77-116  |
| 4-Bromofluorobenzene | 104      | 67-133  |

#### HALOGENATED VOLATILES by EPA 8260B MS/MSD QUALITY CONTROL

| Date Extracted: | 7-19-00 |
|-----------------|---------|
| Date Analyzed:  | 7-26-00 |

Matrix: Soil Units: mg/Kg (ppm)

Lab ID: 07-

07-041-05

| Compound           | Spike<br>Amount MS | Percent<br>Recovery | Percent<br>MSD Recovery | RPD   | Flags  |
|--------------------|--------------------|---------------------|-------------------------|-------|--------|
| 1,1-Dichloroethene | 2.50 2.35          | 94                  | 2.37 95                 | 0.83  |        |
| Benzene            | 2.50 2:49          | 100                 | 2.55 102                | 2.3   |        |
| Trichloroethene    | 2.50 2.35          | 94                  | 2.35 94                 | 0.094 | . **:  |
| Toluene            | 2.50 2.48          | 99                  | 2.44 98                 | 1.6   |        |
| Chlorobenzene      | 2.50 2.43          | 97                  | 2.47 99                 | 1.3   | ં શે જ |

Date Analyzed: 7-12-00

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#### % MOISTURE

| Client ID   | Lab ID    | % Moisture |
|-------------|-----------|------------|
| MW3-7.5-9   | 07-041-03 | 11         |
| MW3-12.5-14 | 07-041-05 | 24         |
| MW3-45-45.5 | 07-041-14 | 14         |
| VE3-10-11.5 | 07-041-19 | 17         |
| VE3-20-21.5 | 07-041-23 | 10         |
| MW2-2.5-4   | 07-041-24 | 10         |
| MW2-10-11.5 | 07-041-27 | 21.        |
| MW2-17.5-19 | 07-041-30 | 4.0        |
| MW2-30-31   | 07-041-33 | 5.0        |
| MW2-45-45.5 | 07-041-36 | 4.0        |
| VE4-15-6.5  | 07-041-41 | 18         |
| VE2-5-6.5   | 07-041-44 | 19         |
| VE2-15-16.5 | 07-041-48 | 21         |
| VE5-5-6.5   | 07-041-50 | 19         |
| VE5-15-16   | 07-041-52 | 21         |
| MW1-2.5-3.5 | 07-041-53 | 16         |
| MW1-35-35.5 | 07-041-62 | 3.0        |
| MW1-45-45.5 | 07-041-64 | 8.0        |
| VE1-7.5-9   | 07-041-68 | 12         |
| VE1-15-16.5 | 07-041-71 | 13         |



#### DATA QUALIFIERS AND ABBREVIATIONS

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

D - Data from 1:\_\_\_\_ dilution.

E - The value reported exceeds the quantitation range, and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

G - Insufficient sample quantity for duplicate analysis.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeniety. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

O - Hydrocarbons outside the defined gasoline range are present in the sample; NWTPH-Dx recommended.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical \_\_\_\_\_

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a silica gel cleanup procedure.

Y - Sample extract treated with an acid cleanup procedure.

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ND - Not Detected at PQL

MRL - Method Reporting Limit

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference

| A OnSite                                                                                                      |                       | C                                      | ain                   | of               | C                | IS            | to       | dy                 |          |                        |               |               |                    | 1                     |             |             | _     |       | Page  | . 1 | of       | 6          | _ |
|---------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------|-----------------------|------------------|------------------|---------------|----------|--------------------|----------|------------------------|---------------|---------------|--------------------|-----------------------|-------------|-------------|-------|-------|-------|-----|----------|------------|---|
| Environmental Inc.<br>14648 NE 95th Street • Redmond, WA 98052<br>Fax: (425) 885-4603 • Phone: (425) 883-3861 |                       | Turnaround<br>(in working)<br>(Check)  |                       | st               | Pro              | oject (       | Chemi    | ist:               | D        | R                      | )<br>)        | Be            |                    |                       |             | ory<br>naly | No.   |       | 07    | -0  | 4 1      |            |   |
| Company:                                                                                                      | _                     | me Day                                 |                       | 1 Da             | iy 🛛             |               |          |                    |          |                        |               |               |                    |                       |             |             |       |       |       |     |          |            |   |
| Project No.: Favallon Consulting L.L.C                                                                        |                       |                                        |                       | 3 Da             | iy               |               |          |                    | 8260B    |                        |               | -             |                    |                       |             |             |       |       |       |     |          |            |   |
| Project Name:<br>Land Title Building Parking La<br>Project Manager:<br>Duff Kaspar                            | U Sta<br>U (Hy<br>All | andard<br>/drocarbon a<br>other analys | analyses<br>ses: 7 da | s: 5 day<br>ays) | ys,<br>CID       | BTEX          |          | 8260B              |          | Semivolatiles by 8270C | 70C           | 82            | y 8081             | Total RCRA Metals (8) |             |             |       |       |       |     |          |            |   |
| The two is a way that the state way is a second second way the                                                | Date                  | (oth<br>Time                           | ner)                  | ž n              | T-F              | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | ogenated | ivolatile              | PAHs by 8270C | PCB's by 8082 | Pesticides by 8081 | I RCRA                | TCLP Metals |             |       |       |       |     |          | % Moisture |   |
| Lab ID         Sample Identification           1         MuJ3-2,5-4                                           | Sampled               | Sampled                                |                       | # o<br>Con       | N N              | MN            | M        | Vota               | Halo     | Ser                    | PAH           | PCE           | Pest               | Tota                  | 1<br>U<br>U | НЧЛ         | Наш   |       | _     |     |          | ₩ %        |   |
| 2 Inw3-5-6.5                                                                                                  | 7/5/00                | 08:45<br>08:43                         | 5                     |                  | <u> </u>         |               |          | -                  |          | -                      |               |               |                    |                       |             | -           |       | _     | _     | _   | $\vdash$ |            | - |
| 3 im3-7.5-9                                                                                                   |                       | 0855                                   |                       |                  | 9 <sup>101</sup> |               | X        |                    | 14<br>   | -                      |               |               |                    | _                     |             |             |       | _     | -     |     | +        |            | ۲ |
| 4 mis3-10-11.5                                                                                                |                       | 0907                                   | -                     |                  | 2                |               |          |                    |          | -                      | 34            |               |                    |                       |             |             | •     |       | -     |     |          | $-\mu$     | Ì |
| 5 Mu3-12.5-14                                                                                                 |                       | 6911                                   |                       |                  |                  |               | X        |                    | X        |                        |               |               |                    |                       |             |             |       |       | 1     |     |          | ×          | 1 |
| 6 nilw3-15-16.5                                                                                               | 54 C                  | 0915                                   |                       |                  | 2                |               | -        | 7                  |          |                        |               |               |                    |                       |             | ,           |       |       |       |     |          | ť          | 7 |
| 7 MU3-17.5-19                                                                                                 |                       | 0917                                   |                       |                  | 1                |               |          |                    | 1        |                        |               |               |                    |                       |             |             |       |       |       |     |          |            |   |
| 7 mw3-20-21.5                                                                                                 |                       | 15921                                  |                       |                  |                  |               |          |                    |          |                        |               |               |                    |                       |             |             |       |       |       |     |          |            |   |
| 9 Mil3-22.5.24                                                                                                | -                     | 0930                                   |                       |                  |                  |               |          |                    |          |                        |               |               |                    |                       |             |             |       |       |       |     |          |            |   |
| 10 MW3-25-26.5                                                                                                |                       | 0934                                   |                       |                  |                  | -             |          |                    |          |                        |               |               |                    |                       |             | 8           |       |       |       |     |          |            |   |
| 11 MW3-30-31.5                                                                                                | _                     | 6939                                   |                       |                  |                  |               | 2        |                    |          |                        |               |               | ÷.                 |                       |             |             |       |       |       |     |          |            |   |
| 12 MINJ-35-35.5<br>RELINQUISHED BY DATE 14                                                                    |                       | 0950                                   | V                     | V                |                  |               | ÷        | •                  |          |                        |               |               |                    | 1                     |             |             |       |       |       |     |          |            |   |
| Insplan 11900                                                                                                 | RECEIVE               |                                        | NO                    | m                | 1                | 20            | ATE N    |                    | 1        | 10                     | 00            | СОМ           | MENT               | rs:                   |             |             |       |       |       |     |          |            |   |
| FIRM Fair 1505                                                                                                | FIRM                  |                                        | 500                   | E EC             | Y                | Т             | IME      |                    | 15       | ÖL.                    |               |               |                    |                       |             |             |       |       |       |     |          |            |   |
| RELINQUISHED BY M BAM DATE 7 10 00                                                                            | 1 /                   | DBY                                    | ind                   | ~                | ł                | D             | ATE      | 7/                 | 10/0     | 10                     |               |               |                    |                       |             |             |       |       |       |     |          |            |   |
| FIRM S ALLAY TIME 1600                                                                                        | FIEM                  | SE                                     | Car                   |                  | 1                | Т             | IME      | 4.                 | 0        | 5                      |               |               |                    |                       |             |             |       |       |       |     |          |            |   |
| REVIEWED BY                                                                                                   | DATE RE               | VIEWED                                 |                       |                  | می کی<br>دی      |               | а.,      | 7                  |          |                        | 6             | Chr           | hemo               | oare                  | nhe         | with        | final | repor | t []] |     |          |            | _ |
|                                                                                                               | DISTRIBUTIC           | ON LEGEND:                             | White . C             | Da Èlta C        | Come Ve          | lleur I       |          | 0                  | - D' 1   |                        |               |               | smat               | Jyra                  | Pila        | vviu I      | mai   | repor |       |     |          |            |   |

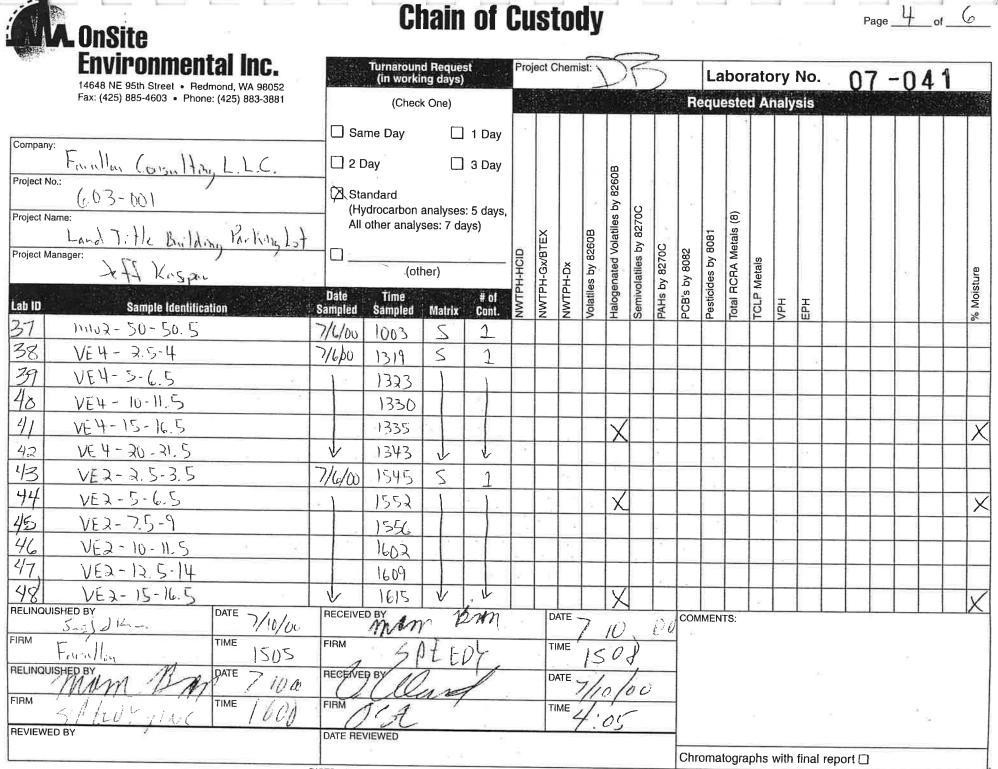
| A. OnSite                                                                                                     | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | hain of                           | Cus    | sto      | ly                                             | 1                      |               |               |                       | 5        |        |                 | Page   | e c | of_6                                    |
|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------|----------|------------------------------------------------|------------------------|---------------|---------------|-----------------------|----------|--------|-----------------|--------|-----|-----------------------------------------|
| Environmental Inc.<br>14648 NE 95th Street • Redmond, WA 98052<br>Fax: (425) 885-4603 • Phone: (425) 883-3881 | (in work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ıd Request<br>ing days)           | Projec | t Chemi  | st:                                            | P                      |               |               | ALC: NOT THE OWNER OF | orat     | -      | CONTRACTOR OF A | 07     | -04 | 1                                       |
| 1 ax. (423) 005-4003 • Phone: (425) 883-3881                                                                  | (Cheo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | k One)                            |        |          |                                                |                        |               | Re            | ques                  | sted A   | Inaliy |                 |        |     |                                         |
| Company:                                                                                                      | Same Day                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 🗌 1 Day                           | /      |          |                                                |                        |               |               |                       |          |        |                 |        |     |                                         |
| Project No .: Favrillen Cuissilting L.L.C                                                                     | 🗌 2 Day                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3 Day                             | ,      |          | ECaca                                          |                        |               |               |                       |          |        |                 |        |     |                                         |
| 603-001                                                                                                       | Standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                   |        | 282      | aca w                                          | <u> </u>               |               |               |                       |          |        |                 |        |     |                                         |
| Project Name:                                                                                                 | (Hydrocarbon<br>All other analy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | analyses: 5 days<br>/ses: 7 days) |        | 5        | Volatiles by 8260B<br>Halomenated Volatiles hv | Semivolatiles by 8270C |               |               | )81<br>212 (0)        | (als (b) |        |                 |        |     |                                         |
| Project Manager:<br>De FF Kaspan                                                                              | - [](ot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ther)                             | -HCID  | Ă Ă      | by 826                                         | atiles by              | 8270C         | y 8082        | s by 80               | Metals   |        |                 |        |     | J                                       |
|                                                                                                               | Date Time<br>Sampled Sampled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | # of<br>Matrix Cont.              |        | NWTPH-Dx | Volatiles by 8260B                             | emivola                | PAHs by 8270C | PCB's by 8082 | Pesticides by 8081    | TCLP M   | HHV    | Н               |        |     | % Moisture                              |
| 17 Inw3-40-40.5                                                                                               | 7/5/00 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 51                                |        |          |                                                | . 0                    | 1             | <u>u</u>      |                       | -  -     | ->     |                 |        |     | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| 14 min3-45-45.5                                                                                               | 1 1305                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |        |          |                                                | K                      |               |               |                       |          |        |                 |        |     | X                                       |
| 15 mw3-50-50,5                                                                                                | V 1315                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |        |          |                                                |                        | - ×           |               |                       |          | 1      |                 |        |     |                                         |
| 16 VE3-2.5-4                                                                                                  | 7/5/00 1545                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5 1                               |        |          |                                                |                        |               |               |                       |          | 1      |                 |        |     |                                         |
| 17 VE3-5-6.5                                                                                                  | 1 1550                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |        |          |                                                |                        |               |               |                       |          |        |                 |        |     |                                         |
| 19 VE3-7.5-9                                                                                                  | 1555                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                   |        |          |                                                |                        |               |               |                       |          |        |                 |        |     |                                         |
| 17 VE3-10-11.5                                                                                                | 1602                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                   |        |          |                                                | $\langle  $            | 1.            |               |                       | 5        |        |                 |        |     | X                                       |
| 20 VE3-12.5-14                                                                                                | 1608                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                   |        |          |                                                |                        |               |               |                       |          |        |                 |        |     |                                         |
| 21 VE3-15-16.5                                                                                                | 1612                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ·                                 |        |          |                                                |                        |               |               |                       |          |        |                 |        |     |                                         |
| 22 VE3-17.5-18.5                                                                                              | 1619                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                   |        | ×.       | ,                                              |                        |               |               |                       |          |        |                 |        |     |                                         |
| 23 VE3-20-21.5                                                                                                | V 1623                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4 4                               |        |          |                                                | 2                      |               |               |                       |          |        |                 |        |     |                                         |
| -24 Milox-2.5-4                                                                                               | 7/6/00 0827                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5,1                               |        |          |                                                | (                      |               |               |                       |          |        |                 |        |     | X                                       |
| RELINQUISHED BY JAN DATE 7/10/00                                                                              | RECEIVED BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | n tom                             | 1      | DATE     | 10                                             | Ď                      | U             | СОМ           | MENTS                 | S:       | 245    |                 |        |     |                                         |
| FIRM Favorilla TIME 1505                                                                                      | FIRM SAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DY                                |        | TIME     | 156                                            | 1                      | -             |               |                       |          |        |                 |        |     |                                         |
| FIRM TIME                                                                                                     | RECEIVED BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Jund                              | •      | DATE     | 7/10                                           | 1.                     | V             |               |                       |          |        |                 |        |     |                                         |
| REVIEWED BY                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |        | TIME     | 1:0                                            | 5                      |               |               |                       |          |        |                 |        |     |                                         |
|                                                                                                               | and the second s |                                   | я а    |          |                                                |                        |               | Chro          | mato                  | graphs   | s with | final re        | port 🗋 |     |                                         |

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| <b>Environmental Inc.</b>                                                               |                 | Turnaroun<br>(in worki | d Reque<br>ng days) | st            | Proj       | ject C        | hemis    | t: J               | F                      | 3             |               | La                 | oor               | ato         | ry N | lo. | 07 | -0   | 41 |           |
|-----------------------------------------------------------------------------------------|-----------------|------------------------|---------------------|---------------|------------|---------------|----------|--------------------|------------------------|---------------|---------------|--------------------|-------------------|-------------|------|-----|----|------|----|-----------|
| 14648 NE 95th Street • Redmond, WA 98052<br>Fax: (425) 885-4603 • Phone: (425) 883-3881 |                 | (Checł                 |                     |               |            |               |          |                    |                        |               | Re            | eque               | ster              | d An        | alys | ls  |    |      |    | 医 領語      |
|                                                                                         | Sa              | me Day                 | э<br>П              | 1 Day         |            |               |          |                    |                        |               |               |                    | 100               |             |      |     |    |      |    |           |
| ompany:                                                                                 |                 |                        |                     |               |            |               |          |                    |                        |               |               |                    |                   |             |      |     |    | -    |    |           |
| Foundlin Consulting L.L.C                                                               |                 | -                      |                     | 3 Day         |            |               |          | anaca              |                        |               |               |                    |                   |             |      |     |    |      |    |           |
| 603-001                                                                                 | U Sta           | andard<br>/drocarbon   | analysos            | ः<br>5 dave   | l a l      | 1             |          | à                  |                        | 1             |               | 2                  | ž                 |             |      |     |    |      |    |           |
| oject Name:                                                                             |                 | other analy            |                     |               |            | ×             |          |                    | 8270                   |               |               | 5                  | (8) sle           |             |      |     |    |      |    |           |
| ject Manager:                                                                           | -0_             |                        |                     |               | 8          | /BTE          |          | 8260               |                        | 700           | 82            | y 80(              | Meta              | s           |      |     |    |      |    |           |
| Dject Manager:<br>Dject Manager:<br>De F.F. Kusponr                                     |                 |                        | her)                |               | H-H        | (D-H          | Ň-H-     | es by              | olatile                | by 82         | by 8(         | des t              | RCRA              | Meta        |      |     |    |      |    | Moisture  |
| b ID Sample Identification                                                              | Date<br>Sampled | Time<br>Sampled        | Matrix              | # of<br>Cant. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-DX | Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C | PCB's by 8082 | Pesticides by 8081 | Total RCRA Metals | TCLP Metals | HHA  | Н   |    |      |    | % Moi     |
| 5 Million - 5-6.5                                                                       | 7/40            | (83)                   | 5                   | 1             |            | -             | 2        | -                  | - 0                    | 1             |               | <u>u</u>           | -                 | -           | 2    |     |    |      |    | - 0       |
| 26 Miuz-7.5-9                                                                           | 1               | 6836                   | 1.                  |               |            |               |          |                    |                        | 1.1           |               |                    |                   |             |      |     |    |      |    |           |
| 7 min2-10-11.5                                                                          |                 | 0841                   |                     |               |            |               |          |                    | K                      |               |               |                    |                   | <           |      |     |    |      |    |           |
| 8 mwz-12.5-14                                                                           |                 | 0846                   |                     |               |            |               |          |                    |                        | y en          |               |                    |                   |             |      |     |    |      |    |           |
| ·9 Milva- 15-16.5                                                                       |                 | 0821                   | 1.1                 |               | ÷.,        | α.            |          |                    |                        |               | ~             |                    |                   |             | (a)  |     |    | 1.00 |    |           |
| 30 Muz-17-5-19                                                                          |                 | 0857                   | =                   |               |            |               |          |                    | X                      |               | ÷.            |                    |                   |             |      |     |    |      |    | 7         |
| 1/ Miloz - 20-21.5                                                                      |                 | 0902                   |                     |               |            |               | v        | _                  |                        |               |               |                    |                   |             |      |     |    |      |    |           |
| 2 MIUZ-25-26,5                                                                          | _               | 0726                   |                     |               |            |               |          |                    |                        |               |               |                    |                   |             |      |     |    |      |    |           |
| 3 11112-30-31                                                                           |                 | 05 00                  |                     |               | -          | -             |          | `                  | X _                    |               |               |                    |                   |             |      |     |    |      |    | $\perp 2$ |
| $\frac{11102 - 35 - 32}{1000}$                                                          | -               | 0933                   |                     |               | -          | _             |          |                    | _                      |               | _             |                    |                   |             |      |     |    |      | _  | _         |
|                                                                                         | $\overline{1}$  | 0947                   |                     |               |            | -             |          |                    | 7                      | -             | _             |                    | -                 |             |      |     |    |      | _  | _         |
| 36 MIUR-45-45.5                                                                         | RECEIVE         | 0951<br>Diby           |                     | W has         | 3          |               | ATE      |                    | X                      |               | CON           |                    | -S-               |             |      | - E |    |      |    |           |
| TIME                                                                                    | FIRM            | man                    | 71 /                | Pan           | 1          |               | - /      |                    | 0                      | 01            | 1001          |                    | 0.                |             |      |     |    |      |    |           |
|                                                                                         | LET UNI         | - 5/7                  | 104                 | 1.*           | ×          |               | ME       | 15                 | 0                      | 7             |               |                    |                   |             |      |     |    |      |    |           |
| ELINQUISHED BY                                                                          | RECEIVE         |                        |                     |               |            |               | ATE      |                    |                        |               | -             |                    |                   |             |      |     |    |      |    |           |



| A OnSite<br>Environmental In                                                                                             | C            |                                       | In Arou                                |           |            | IS<br>ject C  |           | _                  | 5                       | 2                      | )             |               | Lai                | bor                   | ato         | ry i | No. | 0 | Page<br><b>7 -</b> |    | )of<br>4_1 | 6          |
|--------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------|----------------------------------------|-----------|------------|---------------|-----------|--------------------|-------------------------|------------------------|---------------|---------------|--------------------|-----------------------|-------------|------|-----|---|--------------------|----|------------|------------|
| 14924 NE 31st Circle • Redmond, WA 9<br>Fax: (425) 885-4603 • Phone: (425) 883<br>Company:<br>Farally Consulting LiterC. | 8052         |                                       | check On<br>Same D<br>4 Hour<br>8 Hour | ay<br>s   |            |               |           |                    | by 8260B                |                        |               | Re            | que                | ster                  | . Aı        | ialy | sis |   |                    |    |            |            |
| Project Name:<br>Land Title Building Parking L<br>Project Manager:                                                       | Date         | I I I I I I I I I I I I I I I I I I I | tandaro<br>(other<br>Matrix            | )<br># of | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx  | Volatiles by 8260B | Halogenated Volatiles t | Semivolatiles by 8270C | PAHs by 8270C | PCB's by 8082 | Pesticides by 8081 | Total RCRA Metals (8) | TCLP Metals | NPH  | EPH | Υ | T.                 |    |            | % Moisture |
|                                                                                                                          | 7/6/00       | 1738                                  | S                                      | 1         |            |               | ÷         |                    |                         |                        |               |               |                    |                       |             |      |     |   |                    |    |            |            |
| 50 VE5-5-6.5<br>51 VE5-10-11.5                                                                                           |              | 1745                                  |                                        |           |            | _             |           |                    | X                       |                        |               | _             | _                  |                       |             |      |     |   | _                  | _  |            |            |
| 52 VES-15-16                                                                                                             | $\downarrow$ | 1750<br>1757                          | V                                      |           | -          |               |           |                    |                         |                        | _             | _             |                    | _                     |             |      |     |   | _                  | _  |            |            |
|                                                                                                                          | 01/10        | 0808                                  | 5                                      | 1         |            | -             |           |                    | $\Diamond$              |                        | -             |               |                    |                       |             |      |     | - |                    | -  |            |            |
| 54 Inwi-5-6.5                                                                                                            | 1 100        | 0812                                  |                                        | 1.        | +          | -             |           |                    |                         |                        |               | _             |                    | _                     |             |      |     | - |                    | +- |            | ×          |
| 55 MIVI-7.5-9                                                                                                            |              | 0816                                  |                                        |           |            |               |           |                    |                         |                        |               |               |                    |                       | 1           |      |     |   |                    |    |            | +          |
| 56 Imiul - 10-11                                                                                                         |              | ORBO                                  |                                        |           |            |               |           | 1                  |                         |                        |               |               |                    |                       |             | _    |     |   | 1                  |    |            | -          |
| 57 miul-12.5-14                                                                                                          |              | 6824                                  |                                        |           |            |               |           |                    |                         |                        |               |               |                    |                       |             |      |     |   |                    |    |            |            |
| 38 Inivi- 15-16.5                                                                                                        |              | 0829                                  |                                        |           |            |               |           |                    |                         |                        |               |               |                    |                       |             |      |     |   |                    |    |            |            |
| 59 MW1-17.5-19                                                                                                           |              | 0833                                  |                                        |           |            |               |           |                    |                         |                        |               |               |                    |                       |             |      |     |   |                    |    |            |            |
| 60 mw1-20-21.5                                                                                                           | V            | 0838                                  |                                        |           |            |               |           |                    |                         |                        |               |               |                    |                       |             |      |     |   |                    |    |            |            |
| IRM Francischer 1905                                                                                                     | FIRM         | - MA<br>1 - 5                         | M<br>SPEEL                             | Do<br>NY  | m          | TI            | ATE ~     | 1                  | 10                      |                        | U             | ØOMI          | MENT               | S:                    |             | P    |     |   |                    | ž  |            |            |
| IRM STELLUC TIME 600                                                                                                     | FIRM         | ACT.                                  | ler                                    | d         |            | al u          | ATE<br>ME | 7/1                | 0/0                     | 00                     |               | ×             |                    |                       |             |      |     |   |                    |    |            |            |

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|                                                                                                                                                                                                |                            | Chair                                              | of       | Cu         | st            | od       | ly                 | 1                              | ×                      |               |                    |                       |                  | 1    | )     |             | Page . | 6     | of  | 6          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------------------------|----------|------------|---------------|----------|--------------------|--------------------------------|------------------------|---------------|--------------------|-----------------------|------------------|------|-------|-------------|--------|-------|-----|------------|
| 14924 NE 31st Circle • Redmond, WA                                                                                                                                                             | 98052                      | Turn Arou<br>Request<br>(Check Or                  |          | Proj       | ect Ch        | nemis    | 1:                 | 7                              | 2                      | )<br>i        | La                 |                       |                  |      |       | 07          | -      | 04    |     |            |
| Fax: (425) 885-4603 • Phone: (425) 88<br>Company:<br>Farally Consulting L.C.<br>Project No.:<br>603-001<br>Project Name:<br>Land Title Suilding Yorking Lot<br>Project Manager:<br>Seff Kuspar | 33-3881 C                  | ] Same [<br>] 24 Hou<br>] 48 Hou<br>] Standar<br>] | rs<br>rd | -ciD       | зхвтех        | Ň        | oy 8260B           | Halogenated Volatiles by 8260B | lies by 82/UC<br>3270C | 8082          | by 8081            | Total RCRA Metals (8) | tals             |      |       |             | 2      |       |     | 9          |
| Lab ID Sample Identification $61$ $11101 - 25 - 26.5$                                                                                                                                          | Date Time<br>Sampled Sampl | ed Matrix                                          |          | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogena                       | PAHs bv 8270C          | PCB's by 8082 | Pesticides by 8081 | Total RCF             | TCLP Metals      | ИРН  | Hd    |             |        |       |     | % Moisture |
| - HHU1 - 30-30.5<br>67 11-01 - 35-35.5<br>63 1-101 - 40-40.5                                                                                                                                   | 0\$5                       |                                                    |          |            |               |          |                    | X                              |                        |               |                    |                       |                  |      |       |             |        |       |     | X          |
| 65 MINI-40-40.5<br>65 MINI-45-45.5<br>65 MINI-50-50.5                                                                                                                                          | 0400<br>040<br>V 041       | Š                                                  |          |            |               |          |                    | X                              |                        | -             |                    | -                     |                  |      |       |             |        | -     |     | X          |
| 4 VE1-2.5-3.5<br>67 VE1-5-6.5                                                                                                                                                                  | 7/7/00 1109                | s S                                                | 1        | -          | -             |          |                    |                                |                        |               |                    |                       |                  |      |       | •           |        |       |     | _          |
| 69 VE1-7.5-9                                                                                                                                                                                   | ));3                       |                                                    |          |            | 25            |          |                    | X                              |                        |               |                    |                       |                  |      |       | _           |        |       |     | X          |
| 70 VE1-12.5-14<br>71 VE1-15-16-5<br>RELINQUISHED BY                                                                                                                                            | RECEIVED BY                | 3                                                  |          |            |               |          |                    | Х                              |                        |               | MMEN               | TS                    | à                |      |       |             |        |       |     | X          |
| FIRM Junilian Time 1505<br>RELINQUISHED BY THE ALL PATE                                                                                                                                        | FIRM<br>REØÊIVED.ØY        | SPEE                                               | NG       | M          | TIN           |          | *0                 | 0                              | 0<br>2                 |               |                    |                       | <sup>1</sup> ~W) | 1-30 | 0-30. | 5 - II<br>- | ot co  | Hecto | d - |            |
| FIRM SPLDU TIME 1600                                                                                                                                                                           |                            | lu.<br>E                                           | 0        |            |               | ME 4     | 10                 | 10                             | -                      |               |                    |                       |                  |      |       |             |        |       |     |            |
|                                                                                                                                                                                                | DISTRIBUTION LEGE          |                                                    |          |            |               |          |                    |                                |                        |               |                    |                       |                  |      | 2     |             |        | 3     |     |            |

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July 31, 2000

Jeff Kaspar Farallon Consulting, LLC 320 3<sup>rd</sup> Avenue NE, Suite 200 Issaquah, WA 98027

Re: Analytical Data for Project 603-001 Laboratory Reference No. 0007-138

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on July 20, 2000.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

| 161112 | 20 | 920 | • |     | -211 |  |
|--------|----|-----|---|-----|------|--|
| AUG    | ì  | 0   | 3 | 200 | 0    |  |

NWTPH-Gx/BTEX

| Date Extracted: | ×.<br>7 | 7-24-00 |
|-----------------|---------|---------|
| Date Analyzed:  | 1. 1. 1 | 7-24-00 |
| C 141           | 8       | ×.      |

Matrix: Water Units: ug/L (ppb)

H

| Client ID: | - 203 | 2 | MW-3      | 12 |
|------------|-------|---|-----------|----|
| Lab ID:    | 8 E   |   | 07-138-03 | -  |

|               | Result Flags | PQL |
|---------------|--------------|-----|
| Benzene       | ND           | 1.0 |
| Toluene       | ND           | 1.0 |
| Ethyl Benzene | ND           | 1.0 |
| m,p-Xylene    | ND           | 1.0 |
| o-Xylene      | ND           | 1.0 |
| TPH-Gas       | 1000 T       | 100 |

Surrogate Recovery:

Fluorobenzene 104%

### NWTPH-Gx/BTEX METHOD BLANK QUALITY CONTROL

| Date Extracted: | 7-24-00 |
|-----------------|---------|
| Date Analyzed:  | 7-24-00 |

Matrix: Water Units: ug/L (ppb)

Lab ID: MB0724W1

|                     | Result F | lags PQL                 |
|---------------------|----------|--------------------------|
| Benzene             | ND       | 1.0                      |
| Toluene             | ND       | 1.0                      |
| Ethyl Benzene       | ND       | 1.0                      |
| m,p-Xylene          | ND       | 1.0                      |
| o-Xylene            | ND       | 1.0                      |
| TPH-Gas             | ND       | 100                      |
| Surrogate Recovery: |          | nen i krij<br>Di teli af |

Fluorobenzene ,97%

### NWTPH-Gx/BTEX MS/MSD QUALITY CONTROL

| Date Extracted: | 7-24-00          |
|-----------------|------------------|
| Date Analyzed:  | 7 <b>-</b> 24-00 |

## Matrix: Water Units: ug/L (ppb)

## Spike Level: 50.0 ppb

| Lab ID: 0     |      | Percent 07<br>ecovery                                                                                                   |      | Percent<br>ecovery | RPD Fla | gs                    |
|---------------|------|-------------------------------------------------------------------------------------------------------------------------|------|--------------------|---------|-----------------------|
|               |      | 1989)<br>- 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 199 |      |                    | 0.02    | 8 n <sup>h</sup><br>2 |
| Benzene       | 55.9 | 112                                                                                                                     | 55.4 | 111                | 0.92    | . 2                   |
| Toluene       | 54.4 | 109                                                                                                                     | 54.0 | 108                | 0.79    |                       |
| Ethyl Benzene | 53.1 | 106                                                                                                                     | 52.7 | 105                | 0.76    |                       |
| m,p-Xylene    | 54.6 | 109                                                                                                                     | 54.4 | 109                | 0.48    | 1 E                   |
| o-Xylene      | 54.4 | 109                                                                                                                     | 54.0 | 108                | 0.70    | i,                    |

| - 106%                  | Surrogate Recovery: | 한 옷에서 그 나라도 있어? | 이 집에 있는 것 같은 것이 같은 것이 없다. |
|-------------------------|---------------------|-----------------|---------------------------|
| Fluorobenzene 107% 100% | Fluorobenzene       | 107%            | 106%                      |

# HALOGENATED VOLATILES by EPA 8260B Page 1 of 2

| Data Extracted  |               | 7-24-00                               |
|-----------------|---------------|---------------------------------------|
| Date Extracted: |               | · · · · · · · · · · · · · · · · · · · |
| Date Analyzed:  |               | 7-24-00                               |
| 8               | - 10 C        | NC                                    |
| Matrix:         | - 11 an       | Water                                 |
| Units:          |               | ug/L (ppb)                            |
|                 | i a Balan A j | 말할 것 같아요. 요즘                          |
| Lab ID:         |               | 07-138-01                             |
| Client ID:      |               | MW-1                                  |
|                 |               | 121 1                                 |

|                             |         |                                     | 501 |         |
|-----------------------------|---------|-------------------------------------|-----|---------|
| Compound                    | Results | Flags                               | PQL |         |
| Dichlorodifluoromethane     | ND      |                                     | 10  |         |
| Chloromethane               | ND      | n Trinch                            | 10  | 51      |
| Vinyl Chloride              | ND      |                                     | 10  |         |
| Bromomethane                | ND      |                                     | 10  |         |
| Chloroethane                | ND      | n an shararan<br>Ar ar 1 - An ar ar | 10  |         |
| Trichlorofluoromethane      | ND      |                                     | 10  | ň       |
| 1,1-Dichloroethene          | ND      | 1.000                               | 10  | 80      |
| Methylene Chloride          | 57      | н                                   | 50  | :<br>28 |
| (trans) 1,2-Dichloroethene  | ND      | 그 맘에 깨끗했다.                          | 10  | .,      |
| 1,1-Dichloroethane          | ND      | General Section                     | 10  |         |
| 2,2-Dichloropropane         | ND      |                                     | 10  | P       |
| (cis) 1,2-Dichloroethene    | ND      |                                     | 10  |         |
| Chloroform                  | ND      |                                     | 10  |         |
| 1,1,1-Trichloroethane       | ND      | 1.00 Sch-                           | 10  |         |
| Carbon Tetrachloride        | ND      | a Sue-                              | 10  |         |
| 1,1-Dichloropropene         | ND      |                                     | 10  |         |
| 1,2-Dichloroethane          | ND      |                                     | 10  | j,      |
| Trichloroethene             | ND      |                                     | 10  | 2       |
| 1,2-Dichloropropane         | ND      | e nga kw                            | 10  | 4       |
| Dibromomethane              | ND      | , <sup>4</sup> , 27                 | 10  |         |
| Bromodichloromethane        | ND      | s Par                               | 10  |         |
| 2-Chloroethyl Vinyl Ether   | ND      |                                     | 250 |         |
| (cis) 1,3-Dichloropropene   | ND      | - **                                | 10  | • )     |
| (trans) 1,3-Dichloropropene | ND      | it i di co                          | 10  | ĉ       |
| 1,1,2-Trichloroethane       | ND      | 1967 / 14                           | 10  |         |
| Tetrachloroethene           | 560     | 100                                 | 10  |         |
| 1,3-Dichloropropane         | ND      | 1 - Lat                             | 10  |         |
|                             | <u></u> |                                     |     | 11      |

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## HALOGENATED VOLATILES by EPA 8260B Page 2 of 2

| Lab ID:                     | 07-138-01     |          | , të phanë                 |          |
|-----------------------------|---------------|----------|----------------------------|----------|
| Client ID:                  | MW-1          | 2<br>1 2 | A. 1998                    |          |
|                             |               |          | a Martina M                | 1. A. A. |
| Compound                    |               | Results  | Flags                      | PQL      |
| Dibromochloromethane        |               | ND       | 이 위치를 가 있다.<br>기 등관 가 있다.  | 10       |
| 1,2-Dibromoethane           |               | ND       |                            | 10       |
| Chlorobenzene               |               | ND       |                            | 10       |
| 1,1,1,2-Tetrachloroethane   | Atta Tayla 🦿  | . ND     |                            | 10       |
| Bromoform                   | 김 씨가 많다.      | ND       | 065 E                      | 50       |
| Bromobenzene                |               | ND       | a a 11 a an                | 10       |
| 1,1,2,2-Tetrachloroethane   | ita (Martin   | ND       |                            | 10       |
| 1,2,3-Trichloropropane      |               | · ND     |                            | 10       |
| 2-Chlorotoluene             | a 5.31° an 10 | ND       | 한 같은 말을 한 것을 한 것을 한 것을 했다. | 10       |
| 4-Chlorotoluene             |               | ND       |                            | 10       |
| 1,3-Dichlorobenzene         |               | ND       | 같은 고관적으로                   | 10       |
| 1,4-Dichlorobenzene         | 말 물네. 도마말 봐?  | ND       | 1. The Sec                 | 10       |
| 1,2-Dichlorobenzene         |               | ND       |                            | 10       |
| 1,2-Dibromo-3-chloropropane |               | ND       |                            | 250      |
| 1,2,4-Trichlorobenzene      |               | ND       |                            | 10       |
| Hexachlorobutadiene         | 집에서 성의다.      | ND       | de la serie                | 10       |
| 1,2,3-Trichlorobenzene      |               | ND       | 요즘 이 것을 수 있다.              | 10       |

|                      | 202 0.<br>005 0. |                                         | Percent | de di M                   | Control | ж<br>34 |
|----------------------|------------------|-----------------------------------------|---------|---------------------------|---------|---------|
| Surrogate            | 2                | R                                       | ecovery |                           | Limits  |         |
| Dibromofluoromethane | S .              |                                         | 128     | 이 나는 것을                   | 71-133  |         |
| Toluene-d8           | 2.8              | and the                                 | 105     | 5 <sup>0</sup> 0 <u>0</u> | 80-151  |         |
| 4-Bromofluorobenzene | 2 4<br>2         | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | 106     | ູ່ ອີ ຊ                   | 75-139  |         |

## HALOGENATED VOLATILES by EPA 8260B Page 1 of 2

| Date Extracted: | 7-24-00                  |               |
|-----------------|--------------------------|---------------|
| Date Analyzed:  | 7-24-00                  |               |
|                 | e Maria de Calabra de La | 142           |
| Matrix:         | Water                    |               |
| Units:          | ug/L (ppb)               | - 14 a        |
|                 | કું તુર્વેલ જે તાઢુ ત    | 21 (a)<br>(a) |
| Lab ID:         | 07-138-02                | 2.92          |
| Client ID:      | MW-2                     |               |

|                             |         | 그 지난 말 같은 것 같아요 |                           |
|-----------------------------|---------|-----------------|---------------------------|
| Compound                    | Results | Flags PQ        | L                         |
| Dichlorodifluoromethane     | ND      | 10              |                           |
| Chloromethane               | ND      | - 10            | 18 s' i g                 |
| Vinyl Chloride              | ND      | 10              |                           |
| Bromomethane                | ND      | 10              | ) <sup>(1</sup> ) (1) (1) |
| Chloroethane                | ND      | 10              | <u>(</u>                  |
| Trichlorofluoromethane      | ND      | 10              | 167                       |
| 1,1-Dichloroethene          | ND      | 10              | ), i se .                 |
| Methylene Chloride          | 50      | Н 50            |                           |
| (trans) 1,2-Dichloroethene  | ND      | 10              | 10                        |
| 1,1-Dichloroethane          | ND      | 10              | 8 J.A. MY                 |
| 2,2-Dichloropropane         | ND      | 10              | 2                         |
| (cis) 1,2-Dichloroethene    | ND      | ale 10, 10 10   |                           |
| Chloroform                  | ND      | 10              |                           |
| 1,1,1-Trichloroethane       | ND      | 10              |                           |
| Carbon Tetrachloride        | ND      | 10              |                           |
| 1,1-Dichloropropene         | ND      | 10              |                           |
| 1,2-Dichloroethane          | ND .    | 10              |                           |
| Trichloroethene             | ND      | 10              | g. v =                    |
| 1,2-Dichloropropane         | ND      | 10              |                           |
| Dibromomethane              | ND      | 10              |                           |
| Bromodichloromethane        | ND      | 10              |                           |
| 2-Chloroethyl Vinyl Ether   | ND      | 25              |                           |
| (cis) 1,3-Dichloropropene   | ND      | 10              |                           |
| (trans) 1,3-Dichloropropene | ND      | 10              |                           |
| 1,1,2-Trichloroethane       | ND      | 10              | . V. 1                    |
| Tetrachloroethene           | 1100    | 10              |                           |
| 1,3-Dichloropropane         | ND      | 10              | כ                         |
|                             |         | * č             | 25.                       |

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## HALOGENATED VOLATILES by EPA 8260B Page 2 of 2

| Lab ID:    | 07-138-0 |      |  |
|------------|----------|------|--|
| Client ID: | ŝ v      | MW-2 |  |

| · · · · · · · · · · · · · · · · · · · |         | 20 - 200 J.H                                  |     |
|---------------------------------------|---------|-----------------------------------------------|-----|
| Compound                              | Results | Flags                                         | PQL |
| Dibromochloromethane                  | ND      | 3 A A                                         | 10  |
| 1,2-Dibromoethane                     | ND      | 1 - C. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | 10  |
| Chlorobenzene                         | ND      |                                               | 10  |
| 1,1,1,2-Tetrachloroethane             | ND      |                                               | 10  |
| Bromoform                             | ND      |                                               | 50  |
| Bromobenzene                          | ND      | - A                                           | 10  |
| 1,1,2,2-Tetrachloroethane             | ND      | 1 - F <sup>161</sup>                          | 10  |
| 1,2,3-Trichloropropane                | ND      |                                               | 10  |
| 2-Chlorotoluene                       | ND      |                                               | 10  |
| 4-Chlorotoluene                       | ND      |                                               | 10  |
| 1,3-Dichlorobenzene                   | ND      | 11 11 11 1                                    | 10  |
| 1,4-Dichlorobenzene                   | ND      | ine en egita.                                 | 10  |
| 1,2-Dichlorobenzene                   | ND      |                                               | 10  |
| 1,2-Dibromo-3-chloropropane           | ND      |                                               | 250 |
| 1,2,4-Trichlorobenzene                | ND      |                                               | 10  |
| Hexachlorobutadiene                   | ND      |                                               | 10  |
| 1,2,3-Trichlorobenzene                | ND      | 1 (M) 1 M                                     | 10  |
|                                       |         |                                               |     |

|                      |                 | Percent  |                                                                                                                | Control |
|----------------------|-----------------|----------|----------------------------------------------------------------------------------------------------------------|---------|
| Surrogate            | eZ w            | Recovery | de la composición de | Limits  |
| Dibromofluoromethane |                 | 132      | 이 같은 말을 가지?                                                                                                    | 71-133  |
| Toluene-d8           | 이 같은 것이 같이 같아요. | 104      | 1. C                                                                                                           | 80-151  |
| 4-Bromofluorobenzene |                 | 105      | 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -                                                                        | 75-139  |

## HALOGENATED VOLATILES by EPA 8260B Page 1 of 2

| Date Extracted: |               | 7-24-00                                  |
|-----------------|---------------|------------------------------------------|
| Date Analyzed:  | 4 . Y         | 7-25-00                                  |
| ±:              |               | 이 아이 |
| Matrix:         | •             | Water                                    |
| Units:          |               | ug/L (ppb)                               |
| .9              |               |                                          |
| Lab ID:         | 명이 한 말을 가장    | 07-138-03                                |
| Client ID:      | ° ≠* a ₹` a * | MW-3                                     |

|                             |                       |                                                                                                                | DOL |
|-----------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------|-----|
| Compound                    | Results               | Flags                                                                                                          | PQL |
| Dichlorodifluoromethane     | ND                    | e - 2                                                                                                          | 10  |
| Chloromethane               | ND                    |                                                                                                                |     |
| Vinyl Chloride              | ND                    |                                                                                                                | 10  |
| Bromomethane                | ND                    |                                                                                                                | 10  |
| Chloroethane                | ND ····               | 신입 것으로                                                                                                         | 10  |
| Trichlorofluoromethane      | ND                    | * <u>A</u> 1                                                                                                   | 10  |
| 1,1-Dichloroethene          | ND                    | 전화 제품 :                                                                                                        | 10  |
| Methylene Chloride          | 59                    | $= \{ H_{\lambda_1}, \dots, H_{\lambda_n} \}$                                                                  | 50  |
| (trans) 1,2-Dichloroethene  | ND                    |                                                                                                                | 10  |
| 1,1-Dichloroethane          | ND                    | s în la ser la s                                                                                               | 10  |
| 2,2-Dichloropropane         | ND                    |                                                                                                                | 10  |
| (cis) 1,2-Dichloroethene    | ND                    |                                                                                                                | 10  |
| Chloroform                  | ND                    |                                                                                                                | 10  |
| 1,1,1-Trichloroethane       | ND                    | e de la casa de la cas | 10  |
| Carbon Tetrachloride        | ND .                  | 이 아이가 다니?                                                                                                      | 10  |
| 1,1-Dichloropropene         | ND .                  |                                                                                                                | 10  |
| 1,2-Dichloroethane          | ND                    |                                                                                                                | 10  |
| Trichloroethene             | ND                    | 이가 우리 않는                                                                                                       | 10  |
| 1,2-Dichloropropane         | ND                    | 2 8 <sup>6</sup> 8                                                                                             | 10  |
| Dibromomethane              | ND                    |                                                                                                                | 10  |
| Bromodichloromethane        | ND                    |                                                                                                                | 10  |
| 2-Chloroethyl Vinyl Ether   | ND                    |                                                                                                                | 250 |
| (cis) 1,3-Dichloropropene   | ND                    | l, tergh v                                                                                                     | 10  |
| (trans) 1,3-Dichloropropene | ND                    | 5 . S . S                                                                                                      | 10  |
| 1,1,2-Trichloroethane       | ND                    |                                                                                                                | 10  |
| Tetrachloroethene           | 1300                  |                                                                                                                | 10  |
|                             | ND                    | n #                                                                                                            | 10  |
| 1,3-Dichloropropane         | a and a second second | ્ર શા શ્વ                                                                                                      |     |

### HALOGENATED VOLATILES by EPA 8260B Page 2 of 2

| Lab ID:    | 07-138-03                             |
|------------|---------------------------------------|
| Client ID: | MW-3                                  |
|            | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |

|                             | W 2. 1 M 1 M 1 M 1 M 2 M 1 |           |
|-----------------------------|----------------------------|-----------|
| Compound                    | Results                    | Flags PQL |
| Dibromochloromethane        | ND                         | 10        |
| 1,2-Dibromoethane           | ND                         | 10        |
| Chlorobenzene               | ND                         | 10        |
| 1,1,1,2-Tetrachloroethane   | ND                         | 10        |
| Bromoform                   | ND                         | 50        |
| Bromobenzene                | ND                         | 10        |
| 1,1,2,2-Tetrachloroethane   | ND                         | 10        |
| 1,2,3-Trichloropropane      | ND                         | 10        |
| 2-Chlorotoluene             | ND                         | 10        |
| 4-Chlorotoluene             | ND                         | 10        |
| 1,3-Dichlorobenzene         | ND                         | 10        |
| 1,4-Dichlorobenzene         | ND                         | 10        |
| 1,2-Dichlorobenzene         | ND                         | 10        |
| 1,2-Dibromo-3-chloropropane | ND                         | 250       |
| 1,2,4-Trichlorobenzene      | ND                         | 10        |
| Hexachlorobutadiene         | ND                         | 10        |
| 1,2,3-Trichlorobenzene      | ND                         | 10        |
|                             |                            |           |

|                      | a _ ^ ^   | Percent  | 8. S.     | Control | ÷. |
|----------------------|-----------|----------|-----------|---------|----|
| Surrogate            | 8 U. S. F | Recovery |           | Limits  | 9  |
| Dibromofluoromethane | 이 가 있다.   | 131      | ્રા છે. ક | 71-133  | 1  |
| Toluene-d8           | 6 ×       | 102      | -         | 80-151  |    |
| 4-Bromofluorobenzene | ×.        | 103      |           | 75-139  | ć, |

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#### HALOGENATED VOLATILES by EPA 8260B Page 1 of 2

|  | aye | <b>U</b> 1 | <u> </u> |  |
|--|-----|------------|----------|--|
|  | _   |            |          |  |
|  |     |            |          |  |

| Date Extracted; | 7-26-00     |
|-----------------|-------------|
| Date Analyzed:  | 7-26-00     |
| e.              |             |
| Matrix:         | Water       |
| Units:          | ug/L (ppb)  |
|                 |             |
| Lab ID:         | 07-138-04   |
| Client ID:      | 071900-QC-1 |

| Results                                          | Flags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PQL                                                                             |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| ND                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10                                                                              |
| ND                                               | and and all                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10                                                                              |
| ND .                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10                                                                              |
| ND                                               | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10                                                                              |
| ND                                               | 이번 제 관심                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10                                                                              |
| ND                                               | 1871 s.j. 489                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 10                                                                              |
| ND                                               | 이 가슴을 다 나는 것이 나는 것이 하는 것이 않아. 않아 않아 않아 않아 않아 않아 않아 않아. 않아 않아 않아 않아 않아 않아 않아 않아 않아. 않아 않아 않아 않아 않아 않아 않아 않아 않아. 않아 않아 않아 않아 않아 않아 않아 않아 않아. 않아 않아 않아 않아 않아 않아 않아 않아 않아. 않아 않아 않아 않아 않아 않아 않아 않아 않아 않아. 않아 않아 않아 않아 않아 않아 않아 않아 않아 않아. 않아 않아 않아 않아 않아 않아 않아 않아. 않아 않아 않아 않아 않아 않아 않아. 않아 않아 않아 않아 않아 않아 않아 않아. 않아 않아 않아 않아 않아 않아 않아 않아. 않아 않아 않아 않아 않아 않아 않아 않아 않아. 않아 않아 않아 않아 않아 않아 않아 않아. 않아 않아 않아 않아 않아 않아 않아 않아. 않아 않아 않아 않아 않아 않아 않아 않아 않아. 않아 않아 않아 않아 않아 않아 않아 않아. 않아 않아 않아 않아 않아 않아 않아 않아. 않아 않아 않아 않아 않아 않아 않아 않아 않아. 않아 않아 않아 않아 않아 않아 않아 않아 않아 않아. 않아 않아 | 10                                                                              |
| ND                                               | 이는 영상 가슴                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 50                                                                              |
| ND                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10                                                                              |
| ND                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10                                                                              |
| ND                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10                                                                              |
| A 101 102 10 10 10 10 10 10 10 10 10 10 10 10 10 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10                                                                              |
| - C E E                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10                                                                              |
| ND .                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10                                                                              |
|                                                  | 18 A. A. C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10                                                                              |
|                                                  | 1922 E 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10                                                                              |
| 0.0555                                           | 1 <sup>1</sup> 3.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10                                                                              |
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10                                                                              |
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10                                                                              |
|                                                  | a in the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10                                                                              |
|                                                  | - 1 X _ 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10                                                                              |
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 250                                                                             |
|                                                  | 11 M (Q. 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10                                                                              |
|                                                  | 1 - E - E - E - E - E - E - E - E - E -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10                                                                              |
|                                                  | 5 a 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10                                                                              |
| 930                                              | - 100 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10                                                                              |
| ND                                               | 1.1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10                                                                              |
|                                                  | ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>N |

## HALOGENATED VOLATILES by EPA 8260B Page 2 of 2

| Lab ID:    | 07-138-04                                                                                                       | 12  |
|------------|-----------------------------------------------------------------------------------------------------------------|-----|
| Client ID: | 071900-Q                                                                                                        | C-1 |
|            | and the second secon | * × |

|   | Compound                    | Results FI                                | ags PQL             |
|---|-----------------------------|-------------------------------------------|---------------------|
|   | Dibromochloromethane        | ND                                        | 10                  |
|   | 1,2-Dibromoethane           | ND                                        | 10                  |
|   | Chlorobenzene               | ND                                        | 10                  |
|   | 1,1,1,2-Tetrachloroethane   | ND -                                      | 10                  |
|   | Bromoform                   | ND                                        | 50                  |
|   | Bromobenzene                | ND                                        | 10                  |
|   | 1,1,2,2-Tetrachloroethane   | ND                                        | 10                  |
|   | 1,2,3-Trichloropropane      | ND                                        | 10                  |
|   | 2-Chlorotoluene             | ND                                        | 10                  |
|   | 4-Chlorotoluene             | ND                                        | 10                  |
|   | 1,3-Dichlorobenzene         | ND                                        | 10                  |
| Ì | 1,4-Dichlorobenzene         | ND                                        | 10                  |
|   | 1,2-Dichlorobenzene         | ND                                        | 10                  |
| 1 | 1,2-Dibromo-3-chloropropane | ND                                        | 250                 |
|   | 1,2,4-Trichlorobenzene      | ND                                        | 10                  |
|   | Hexachlorobutadiene         | ND                                        | - 10                |
|   | 1,2,3-Trichlorobenzene      | ND                                        | 10                  |
|   |                             | 4) 11 11 11 11 11 11 11 11 11 11 11 11 11 | 10 R (010) / R (00) |

|                      |             | 8. J. J. | Percent |                      | Control<br>Limits |
|----------------------|-------------|----------|---------|----------------------|-------------------|
| Surrogate            |             | R R      | ecovery | 김 문화                 |                   |
| Dibromofluoromethane | 3 ge - 1 A. |          | 99      | 말 이 같은 이 말 같         | 71-133            |
| Toluene-d8           |             | s 35 g   | 94      |                      | 80-151            |
| 4-Bromofluorobenzene |             |          | 101     | - 22 - 5<br>- 22 - 5 | 75-139            |

### HALOGENATED VOLATILES by EPA 8260B Page 1 of 2

| Date Extracted | : J           | 7-24-00         |
|----------------|---------------|-----------------|
| Date Analyzed: |               | 7-24-00         |
| 2              | 5.8.1         | 한 걸 것 않는 것 같은 것 |
| Matrix:        | वर्षे व्यः भि | Water           |
| Units:         | e 18 _        | ug/L (ppb)      |
| 2              |               |                 |
| Lab ID:        |               | 07-138-05       |
| Client ID:     |               | 071900-QC-TB    |
|                |               |                 |

|                             |         | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |
|-----------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Compound                    | Results | Flags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PQL  |
| Dichlorodifluoromethane     | ND      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20 |
| Chloromethane               | ND      | 학생님 이 같은 것이 같다.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20 |
| Vinyl Chloride              | ND      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20 |
| Bromomethane                | ND      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20 |
| Chloroethane                | ND      | i di Linda i sa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20 |
| Trichlorofluoromethane      | ND      | 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.20 |
| 1,1-Dichloroethene          | ND      | 지 않는 것 같은 것이 없는 것이 없다.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.20 |
| Methylene Chloride          | ND      | 아이는 물건이다.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0  |
| (trans) 1,2-Dichloroethene  | ND      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20 |
| 1,1-Dichloroethane          | ND      | 3월 14 km - 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.20 |
| 2,2-Dichloropropane         | ND      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20 |
| (cis) 1,2-Dichloroethene    | ND      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20 |
| Chloroform                  | ND      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20 |
| 1,1,1-Trichloroethane       | ND      | 요즘 상태는 것                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.20 |
| Carbon Tetrachloride        | ND      | 120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.20 |
| 1,1-Dichloropropene         | ND      | ( 1991) - Marine (1997) - Mari | 0.20 |
| 1,2-Dichloroethane          | ND      | shali (ji biya                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.20 |
| Trichloroethene             | ND      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20 |
| 1,2-Dichloropropane         | ND      | in i se                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.20 |
| Dibromomethane              | ND      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20 |
| Bromodichloromethane        | ND      | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.20 |
| 2-Chloroethyl Vinyl Ether   | ND      | 이 이 이 아이지 않는 것이 아이지 않는 않는 것이 아이지 않는 않는 것이 아이지 않는 않는 것이 아이지 않는 않는 것이 아이지 않는                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5.0  |
| (cis) 1,3-Dichloropropene   | ND      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20 |
| (trans) 1,3-Dichloropropene | ND      | ka in central des                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.20 |
| 1,1,2-Trichloroethane       | ND      | i de la composición d                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20 |
| Tetrachloroethene           | ND      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20 |
| 1,3-Dichloropropane         | ND      | പംപം പ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.20 |
|                             |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |

ľ

## HALOGENATED VOLATILES by EPA 8260B Page 2 of 2

| Lab ID:    | 07-138-05    |
|------------|--------------|
| Client ID: | 071900-QC-TB |
| 4          |              |

| Compound                    | Results Flags | PQL  |
|-----------------------------|---------------|------|
| Dibromochloromethane        | ND            | 0.20 |
| 1,2-Dibromoethane           | ND.           | 0.20 |
| Chlorobenzene               | ND            | 0.20 |
| 1,1,1,2-Tetrachloroethane   | ND            | 0.20 |
| Bromoform                   | ND            | 1.0  |
| Bromobenzene                | ND            | 0.20 |
| 1,1,2,2-Tetrachloroethane   | ND            | 0.20 |
| 1,2,3-Trichloropropane      | ND            | 0.20 |
| 2-Chlorotoluene             | ND            | 0.20 |
| 4-Chlorotoluene             | ND            | 0.20 |
| 1,3-Dichlorobenzene         | ND            | 0.20 |
| 1,4-Dichlorobenzene         | ND            | 0.20 |
| 1,2-Dichlorobenzene         | ND            | 0.20 |
| 1,2-Dibromo-3-chloropropane | ND            | 5.0  |
| 1,2,4-Trichlorobenzene      | ND            | 0.20 |
| Hexachlorobutadiene         | ND            | 0.20 |
| 1,2,3-Trichlorobenzene      | ND            | 0.20 |
|                             |               | 1.18 |

|               | 5 ge - 82 |                | Percent  |          | Control | 5  |
|---------------|-----------|----------------|----------|----------|---------|----|
| Surrogate     |           |                | Recovery |          | Limits  | В. |
| Dibromofluoro | methane   | -S.e 18        | 130      | an a Mig | 71-133  | Ξ. |
| Toluene-d8    |           | NC - 5 3 10 10 | 107      | 33       | 80-151  | 2  |
| 4-Bromofluoro | benzene   | 8 8 A          | 109      | - 19 C   | 75-139  |    |

### HALOGENATED VOLATILES by EPA 8260B METHOD BLANK QUALITY CONTROL Page 1 of 2

| Date Extracted: | 7-24-00               |   |
|-----------------|-----------------------|---|
| Date Analyzed:  | 7-24-00               |   |
| 50              |                       | 5 |
| Matrix:         | Water                 |   |
| Units:          | ug/L (ppb)            | 4 |
|                 | ાં ં તે સામ અને મું દ |   |
| Lab ID:         | MB0724W1              | 2 |

| Compound                    | Results Flags | PQL  |
|-----------------------------|---------------|------|
| Dichlorodifluoromethane     | ND            | 0.20 |
| Chloromethane               | ND            | 0.20 |
| Vinyl Chloride              | ND            | 0.20 |
| Bromomethane                | ND            | 0.20 |
| Chloroethane                | ND            | 0.20 |
| Trichlorofluoromethane      | ND            | 0.20 |
| 1,1-Dichloroethene          | ND            | 0.20 |
| Methylene Chloride          | ND            | 1.0  |
| (trans) 1,2-Dichloroethene  | ND            | 0.20 |
| 1,1-Dichloroethane          | ND            | 0.20 |
| 2,2-Dichloropropane         | ND            | 0.20 |
| (cis) 1,2-Dichloroethene    | ND            | 0.20 |
| Chloroform                  | ND - Los      | 0.20 |
| 1,1,1-Trichloroethane       | ND            | 0.20 |
| Carbon Tetrachloride        | ND            | 0.20 |
| 1,1-Dichloropropene         | ND            | 0.20 |
| 1,2-Dichloroethane          | ND            | 0.20 |
| Trichloroethene             | ND            | 0.20 |
| 1,2-Dichloropropane         | ND            | 0.20 |
| Dibromomethane              | ND .          | 0.20 |
| Bromodichloromethane        | ND            | 0.20 |
| 2-Chloroethyl Vinyl Ether   | ND            | 5.0  |
| (cis) 1,3-Dichloropropene   | ND            | 0.20 |
| (trans) 1,3-Dichloropropene | ND            | 0.20 |
| 1,1,2-Trichloroethane       | ND            | 0.20 |
| Tetrachloroethene           | ND            | 0.20 |
| 1,3-Dichloropropane         | ND            | 0.20 |
|                             |               |      |

### HALOGENATED VOLATILES by EPA 8260B METHOD BLANK QUALITY CONTROL Page 2 of 2

Lab ID:

|                             | an 69 a a                                 | 10                            |      |
|-----------------------------|-------------------------------------------|-------------------------------|------|
| Compound                    | Results                                   | Flags                         | PQL  |
| Dibromochloromethane        | ND                                        |                               | 0.20 |
| 1,2-Dibromoethane           | ND                                        | per españo a                  | 0.20 |
| Chlorobenzene               | ND                                        | 25. set e                     | 0.20 |
| 1,1,1,2-Tetrachloroethane   | ND                                        |                               | 0.20 |
| Bromoform                   | ND                                        | 도 같 같은 것                      | 1.0  |
| Bromobenzene                | ND                                        | 14 15 16<br>17 16 34          | 0.20 |
| 1,1,2,2-Tetrachloroethane   | ND                                        | ig Parl                       | 0.20 |
| 1,2,3-Trichloropropane      | ND                                        |                               | 0.20 |
| 2-Chlorotoluene             | ND                                        | 승규는 영감                        | 0.20 |
| 4-Chlorotoluene             | ND                                        | 동생 공연 및 관                     | 0.20 |
| 1,3-Dichlorobenzene         | ND                                        | 집 우리 위험                       | 0.20 |
| 1,4-Dichlorobenzene         | ND                                        | Constant (                    | 0.20 |
| 1,2-Dichlorobenzene         | ND                                        |                               | 0.20 |
| 1,2-Dibromo-3-chloropropane | ND                                        |                               | 5.0  |
| 1,2,4-Trichlorobenzene      | ND                                        | 이 없는 것 같아.                    | 0.20 |
| Hexachlorobutadiene         | ND                                        | 승규가 많은 것이다.                   | 0.20 |
| 1,2,3-Trichlorobenzene      | ND                                        | n og til sen af<br>sen er ken | 0.20 |
| 그는 것 같은 것을 가지? 것이 없는 것이 없다. | 20 J. | Start and                     | #    |

MB0724W1

|                      |                                | Percent  | (a. 308)         | Control | - 3<br>- 3              |
|----------------------|--------------------------------|----------|------------------|---------|-------------------------|
| Surrogate            | 의 11 이 11 명령<br>- 11 영국 - 14 중 | Recovery | Îe -             | Limits  | $\frac{\alpha}{\alpha}$ |
| Dibromofluoromethane |                                | 131      | - 1 <sup>2</sup> | 71-133  |                         |
| Toluene-d8           |                                | 103      | ° , °s           | 80-151  |                         |
| 4-Bromofluorobenzene | - * <sup>1</sup> * 4 + 4       | 109      | 1947 - A         | 75-139  | * 9                     |

### HALOGENATED VOLATILES by EPA 8260B METHOD BLANK QUALITY CONTROL Page 1 of 2

Date Extracted: Date Analyzed: 7-26-00 7-26-00

Matrix: Water Units: ug/L (ppb)

Lab ID:

MB0726W1

| 이 이유 영향, 이 영국 영향            | 그 같은 가슴을 |      |
|-----------------------------|----------------------------------------------|------|
| Compound                    | Results Flags                                | PQL  |
| Dichlorodifluoromethane     | ND /                                         | 0.20 |
| Chloromethane               | ND                                           | 0.20 |
| Vinyl Chloride              | ND                                           | 0.20 |
| Bromomethane                | ND                                           | 0.20 |
| Chloroethane                | ND                                           | 0.20 |
| Trichlorofluoromethane      | ND                                           | 0.20 |
| 1,1-Dichloroethene          | ND                                           | 0.20 |
| Methylene Chloride          | ND                                           | 1.0  |
| (trans) 1,2-Dichloroethene  | ND                                           | 0.20 |
| 1,1-Dichloroethane          | ND                                           | 0.20 |
| 2,2-Dichloropropane         | ND                                           | 0.20 |
| (cis) 1,2-Dichloroethene    | ND                                           | 0.20 |
| Chloroform                  | ND                                           | 0.20 |
| 1,1,1-Trichloroethane       | ND                                           | 0.20 |
| Carbon Tetrachloride        | ND                                           | 0.20 |
| 1,1-Dichloropropene         | ND                                           | 0.20 |
| 1,2-Dichloroethane          | ND                                           | 0.20 |
| Trichloroethene             | ND                                           | 0.20 |
| 1,2-Dichloropropane         | ND                                           | 0.20 |
| Dibromomethane              | ND                                           | 0.20 |
| Bromodichloromethane        | ND                                           | 0.20 |
| 2-Chloroethyl Vinyl Ether   | ND                                           | 5.0  |
| (cis) 1,3-Dichloropropene   | ND                                           | 0.20 |
| (trans) 1,3-Dichloropropene | ND                                           | 0.20 |
| 1,1,2-Trichloroethane       | ND.                                          | 0.20 |
| Tetrachloroethene           | ND                                           | 0.20 |
| 1,3-Dichloropropane         | ND                                           | 0.20 |
|                             |                                              |      |

#### HALOGENATED VOLATILES by EPA 8260B METHOD BLANK QUALITY CONTROL Page 2 of 2

Lab ID:

#### Compound Results Flags PQL Dibromochloromethane ND 0.20 1,2-Dibromoethane ND 0.20 Chlorobenzene ND 0.20 1,1,1,2-Tetrachloroethane ND 0.20 Bromoform ND 1.0 Bromobenzene ND 0.20 1,1,2,2-Tetrachloroethane ND 0.20 1,2,3-Trichloropropane ND 0.20 2-Chlorotoluene ND 0.20 4-Chlorotoluene ND 0.20 1,3-Dichlorobenzene ND 0.20 1,4-Dichlorobenzene ND 0.20 1,2-Dichlorobenzene ND 0.20 1,2-Dibromo-3-chloropropane ND 5.0 1,2,4-Trichlorobenzene ND 0.20 Hexachlorobutadiene ND 0.20 1,2,3-Trichlorobenzene ND 0.20

MB0726W1

|                     |            | Percent  | Control |
|---------------------|------------|----------|---------|
| Surrogate           | al Annal a | Recovery | Limits  |
| Dibromofluoromethan | e file a   | 131      | 71-133  |
| Toluene-d8          |            | 103      | 80-151  |
| 4-Bromofluorobenzen | э          | 109      | 75-139  |

### HALOGENATED VOLATILES by EPA 8260B SB/SBD QUALITY CONTROL

| Date Extracted:   | 7-24-00             |
|-------------------|---------------------|
| Date Analyzed:    | 7-24-00             |
| Matrix:<br>Units: | Water<br>ug/L (ppb) |

Lab ID: SB0724W1

| - 196 V _ 191 _ 2 4 _ 5 1 | Calles          | 00.30 | Descent             | 14 0 <sup>10</sup> | an and a second     | tur, statio |
|---------------------------|-----------------|-------|---------------------|--------------------|---------------------|-------------|
| Compound                  | Spike<br>Amount | SB    | Percent<br>Recovery | SBD                | Percent<br>Recoverv | RPD Flags   |
| compound                  | Amount          | 36    | Recovery            | 360                | Recovery            | RPD Flags   |
| 1,1-Dichloroethene        | 10.0            | 11.21 | 112                 | 11.07              | 111                 | 1.3         |
| Benzene                   | 10.0            | 12.20 | 122                 | 11.60              | 116                 | 4.7         |
| Trichloroethene           | 10.0            | 11.10 | 111                 | 10.80              | 108                 | 2,4         |
| Toluene                   | 10.0            | 10.60 | 106                 | 10.30              | , 103               | 3.1         |
| Chlorobenzene             | 10.0            | 10.13 | 101                 | 10.27              | 103                 | 1.4         |



#### DATA QUALIFIERS AND ABBREVIATIONS

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

D - Data from 1:\_\_\_\_ dilution.

E - The value reported exceeds the quantitation range, and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

G - Insufficient sample quantity for duplicate analysis.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeniety. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

O - Hydrocarbons outside the defined gasoline range are present in the sample; NWTPH-Dx recommended.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical gas.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a silica gel cleanup procedure.

Y - Sample extract treated with an acid cleanup procedure.

Ζ-

ND - Not Detected at PQL

MRL - Method Reporting Limit

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference

| A OnSite                                                                                                                                              |                                   | Shani                                    | 01 (               | ;[[         | 510                       | Jdy                 |                                |                        |          |               |                       | 4 e                                  |                |         | 1                | Page | • 1 | _of _ | 1          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------|--------------------|-------------|---------------------------|---------------------|--------------------------------|------------------------|----------|---------------|-----------------------|--------------------------------------|----------------|---------|------------------|------|-----|-------|------------|
| 14648 NE 95th Street • Redmond, WA 98052                                                                                                              | Turnaro<br>(in wo                 | ound Reques<br>orking days)              | t                  | Proje       | ct Che                    | emist:              |                                | 8                      |          |               | and the second second | and the second                       | and the second | No.     |                  |      |     |       |            |
| Fax: (425) 885-4603 • Phone: (425) 883-3881                                                                                                           | 1                                 | heck One)                                |                    |             |                           |                     | Ī                              |                        |          | Re            | ques                  | sted /                               | Anal           | ysis    |                  |      |     |       |            |
| Company: Farallon Consulting L.L.C<br>Project No.:<br>(603-00)<br>Project Name:<br>Land Title Building Parking Let<br>Project Manager:<br>Jeff Kaspan | All other ar                      | oon analyses<br>nalyses: 7 da<br>(other) | ys)                | NWTPH-HCID  | NWTPH-Gx/BTEX<br>NWTPH-Dx | Volatiles by \$260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | by 8270C | PCB's by 8082 | Pesticides by 8081    | Iotal HCHA Metals (b)<br>TCLP Metals |                |         | Historiated VOCS |      | -   |       | isture     |
| Lab ID Sample Identification                                                                                                                          | DateTimeSampledSample7/19/0013:15 | ed Matrix<br>5 W                         | # of<br>Cont.<br>3 | TWN         |                           | Volati              | Halog                          | Semi                   | PAHS     | PCB's         | Pestic                | TCLP                                 | HdV            | EPH     | X                |      |     |       | % Moisture |
| 2 MW-2<br>3 MW-3                                                                                                                                      | 10:1:                             |                                          |                    | _           | XJ                        | X No                | ps<br>dectu                    |                        |          |               |                       | -                                    |                |         | X                |      |     |       |            |
| 4 071900-QC-1<br>5 071900-QC-TB                                                                                                                       | 10:1                              |                                          | 1                  | _           |                           |                     |                                |                        |          | 3             |                       |                                      |                |         | X                |      |     | _     | -          |
|                                                                                                                                                       |                                   |                                          |                    |             |                           |                     |                                |                        |          |               |                       |                                      | _              |         |                  |      | ++  |       |            |
|                                                                                                                                                       |                                   |                                          |                    |             |                           |                     |                                |                        |          |               |                       |                                      |                | -       |                  |      |     |       |            |
| 14 II                                                                                                             |                                   |                                          |                    | 0           |                           |                     |                                |                        |          |               |                       |                                      |                |         |                  |      |     |       |            |
|                                                                                                                                                       |                                   |                                          |                    |             |                           |                     |                                |                        |          |               |                       |                                      |                |         |                  |      |     |       |            |
| RELINQUISHED BY     DATE 7/20/00       FIRM     FIRM       FIRM     FILL       TIME     11:45       RELINQUISHED BY     DATE                          |                                   | +7<br>Ly Mou                             | F-L                |             | TIME                      |                     | -20<br>1:4                     | 100                    | 0        | COMN          | #ENTS                 | 5:                                   |                |         |                  |      |     |       |            |
| FIRM<br>Speccy Mage Time<br>TIME<br>12:39                                                                                                             |                                   | -A                                       | <b>#</b> 8         | 2-11 -<br>2 | DATE                      | 7.2                 | )                              | n n                    | 3        |               |                       |                                      |                |         | (*               |      |     |       |            |
|                                                                                                                                                       | DATE REVIEWED                     | 11                                       | 3.9                |             |                           |                     | 0                              |                        |          | Chro          | mato                  | graph                                | s with         | n final | report           |      |     |       |            |

1

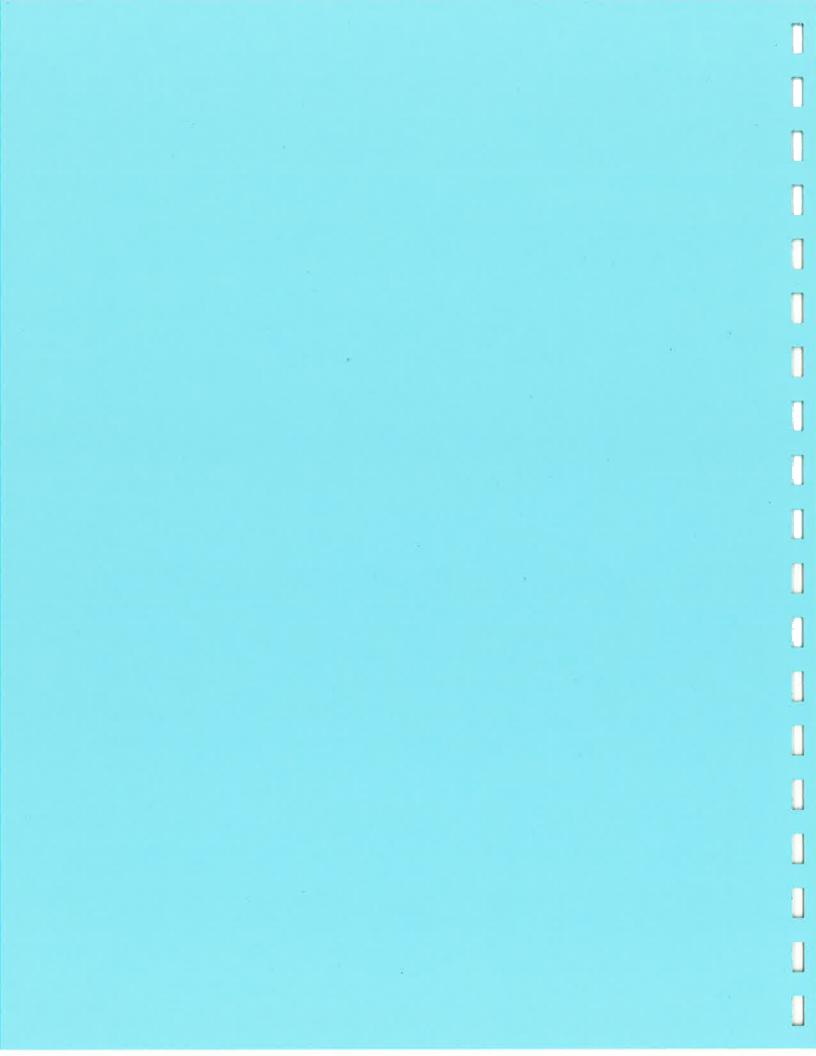
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DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy

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AUG 2 3 2000

August 18, 2000

Jeff Kaspar Farallon Consulting, LLC 320 3<sup>rd</sup> Avenue NE, Suite 200 Issaquah, WA 98027

Re: Analytical Data for Project 603-001 Laboratory Reference No. 0008-161

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on August 16, 2000.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

## HALOGENATED VOLATILES by EPA 8260B Page 1 of 2

| Date Extracted:<br>Date Analyzed: | 8-17-00<br>8-17-00 |
|-----------------------------------|--------------------|
| Matrix:<br>Units:                 | Air<br>ug/L (ppb)  |
| Lab ID:                           | 08-161-01          |

08-161-01 **Client ID:** VE1-EFF-1

|                             |         |                | e - 197 |   |
|-----------------------------|---------|----------------|---------|---|
| Compound                    | Results | Flags          | PQL     |   |
| Dichlorodifluoromethane     | ND      | the second     | 1.0     |   |
| Chloromethane               | ND      | weet figure f  | 1.0     |   |
| Vinyl Chloride              | ND      | 이번 감독 상품       | 1.0     | 0 |
| Bromomethane                | ND      | c = g ≤ 3      | 1.0     |   |
| Chloroethane                | ND      | 12             | 1.0     | 1 |
| Trichlorofluoromethane      | ND      |                | 1.0     |   |
| 1,1-Dichloroethene          | ND      |                | 1.0     |   |
| Methylene Chloride          | ND      |                | 5.0     |   |
| (trans) 1,2-Dichloroethene  | ND.     |                | . 1.0   |   |
| 1,1-Dichloroethane          | ND      | and the state  | 1.0     |   |
| 2,2-Dichloropropane         | ND      |                | 1.0     |   |
| (cis) 1,2-Dichloroethene    | 29      |                | 1.0     |   |
| Chloroform                  | ND      |                | 1.0     |   |
| 1,1,1-Trichloroethane       | ND      |                | 1.0     |   |
| Carbon Tetrachloride        | ND      |                | 1.0     |   |
| 1,1-Dichloropropene         | ND      | and the second | 1.0     |   |
| 1,2-Dichloroethane          | ND      | - ਅੱਜ _ੋ ਕੋ ਕਿ | 1.0     |   |
| Trichloroethene             | 25      |                | 1.0     |   |
| 1,2-Dichloropropane         | ND -    | , 비행 - 승규      | 1.0     |   |
| Dibromomethane              | ND      | , 연구는 바이 율락    | 1.0     |   |
| Bromodichloromethane        | ND      |                | 1.0     | 1 |
| 2-Chloroethyl Vinyl Ether   | ND      |                | 5.0     |   |
| (cis) 1,3-Dichloropropene   | ND      |                | 1.0     |   |
| (trans) 1,3-Dichloropropene | ND      | j na jelo      | 1.0     |   |
| 1,1,2-Trichloroethane       | ND      |                | 1.0     |   |
| Tetrachloroethene           | 2300    |                | 100     |   |
| 1,3-Dichloropropane         | ND      |                | 1.0     |   |
|                             |         | e 5            |         |   |

### HALOGENATED VOLATILES by EPA 8260B Page 2 of 2

|  |  | <br>_ | <br>_ |   |
|--|--|-------|-------|---|
|  |  |       |       |   |
|  |  |       |       | - |
|  |  |       |       |   |

| Lab ID:    | 2 | 08-161-01 |
|------------|---|-----------|
| Client ID: |   | VE1-EFF-1 |
| · · · · ·  |   | - M       |

| Compound                    | Results Flags                            | PQL | Ť, |
|-----------------------------|------------------------------------------|-----|----|
| Dibromochloromethane        | ND                                       | 1.0 |    |
| 1,2-Dibromoethane           | ND                                       | 1.0 |    |
| Chlorobenzene               | ND                                       | 1.0 | 2  |
| 1,1,1,2-Tetrachloroethane   | ND                                       | 1.0 |    |
| Bromoform                   | ND                                       | 1.0 |    |
| Bromobenzene                | ND                                       | 1.0 |    |
| 1,1,2,2-Tetrachloroethane   | ND                                       | 1.0 |    |
| 1,2,3-Trichloropropane      | ND                                       | 1.0 |    |
| 2-Chlorotoluene             | ND                                       | 1.0 | 2  |
| 4-Chlorotoluene             | ND                                       | 1.0 |    |
| 1,3-Dichlorobenzene         | ND                                       | 1.0 |    |
| 1,4-Dichlorobenzene         | ND                                       | 1.0 | 53 |
| 1,2-Dichlorobenzene         | ND                                       | 1.0 |    |
| 1,2-Dibromo-3-chloropropane | ND                                       | 5.0 |    |
| 1,2,4-Trichlorobenzene      | ND                                       | 1.0 | ľ  |
| Hexachlorobutadiene         | ND                                       | 5.0 |    |
| 1,2,3-Trichlorobenzene      | ND                                       | 1.0 |    |
|                             | A. A |     |    |

| 이 아파 전화 관            | Percent  | Control | 0  |
|----------------------|----------|---------|----|
| Surrogate            | Recovery | Limits  |    |
| Dibromofluoromethane | 91       | 71-133  |    |
| Toluene-d8           | 98       | 80-151  |    |
| 4-Bromofluorobenzene | 93       | 75-139  | i. |
|                      |          |         |    |

### HALOGENATED VOLATILES by EPA 8260B Page 1 of 2

| Date Extracted: | 8-17-00    |
|-----------------|------------|
| Date Analyzed:  | 8-17-00    |
|                 |            |
| Matrix:         | Air        |
| Units:          | ug/L (ppb) |
|                 |            |

Lab ID: 08-161-02 Client ID: VE1-EFF-2

|                             | 5 St 18 |                                   |     |
|-----------------------------|---------|-----------------------------------|-----|
| Compound                    | Results | Flags                             | PQL |
| Dichlorodifluoromethane     | ND      |                                   | 100 |
| Chloromethane               | ND      | 9 S S                             | 100 |
| Vinyl Chloride              | ND      | n Juli II. 🛒                      | 100 |
| Bromomethane                | ND      | 2학 2학교학                           | 100 |
| Chloroethane                | ND      |                                   | 100 |
| Trichlorofluoromethane      | ND      | a se in the second                | 100 |
| 1,1-Dichloroethene          | ND      | star i de la                      | 100 |
| Methylene Chloride          | ND      |                                   | 500 |
| (trans) 1,2-Dichloroethene  | ND      |                                   | 100 |
| 1,1-Dichloroethane          | ND      |                                   | 100 |
| 2,2-Dichloropropane         | ND      | a da ser d                        | 100 |
| (cis) 1,2-Dichloroethene    | ND      |                                   | 100 |
| Chloroform                  | ND      |                                   | 100 |
| 1,1,1-Trichloroethane       | ND      |                                   | 100 |
| Carbon Tetrachloride        | ND      |                                   | 100 |
| 1,1-Dichloropropene         | ND      | ં ુપી ટું તોવ                     | 100 |
| 1,2-Dichloroethane          | ND      | 그는 영국 :                           | 100 |
| Trichloroethene             | - ND    | n <sup>ene</sup> la<br>Marine Ana | 100 |
| 1,2-Dichloropropane         | ND      |                                   | 100 |
| Dibromomethane              | ND      | ្រស្លឹង សំ                        | 100 |
| Bromodichloromethane        | ND      |                                   | 100 |
| 2-Chloroethyl Vinyl Ether   | ND      | e Afrikany                        | 500 |
| (cis) 1,3-Dichloropropene   | ND      |                                   | 100 |
| (trans) 1,3-Dichloropropene | ND      |                                   | 100 |
| 1,1,2-Trichloroethane       | ND      |                                   | 100 |
| Tetrachloroethene           | 5300    | 21 - 5.80 <sup>°</sup>            | 100 |
| 1,3-Dichloropropane         | ND      |                                   | 100 |

## HALOGENATED VOLATILES by EPA 8260B Page 2 of 2

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Lab ID: Client ID:

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08-161-02 VE1-EFF-2

|    |                             |           | (1)               |     |          |
|----|-----------------------------|-----------|-------------------|-----|----------|
|    | Compound                    | Results   | Flags             | PQL |          |
|    | Dibromochloromethane        | ND        | 1 T ex            | 100 | 66C<br>2 |
| ŝ  | 1,2-Dibromoethane           | ND        | 5 N. N. S         | 100 | ť,       |
|    | Chlorobenzene               | ND        |                   | 100 |          |
|    | 1,1,1,2-Tetrachloroethane   | ND        | 1. C. C.          | 100 |          |
|    | Bromoform                   | ND        |                   | 100 | 1        |
|    | Bromobenzene                | ND        |                   | 100 |          |
| 1  | 1,1,2,2-Tetrachloroethane   | ND        | ા વેલા. ઉત્સંધ    | 100 | 9        |
| ĩ  | 1,2,3-Trichloropropane      | ND        |                   | 100 |          |
|    | 2-Chlorotoluene             | ND        | 김 씨는 일이 많이 많이 했다. | 100 | 1        |
|    | 4-Chlorotoluene             | ND        |                   | 100 |          |
|    | 1,3-Dichlorobenzene         | ND        | 그는 모양으로           | 100 |          |
|    | 1,4-Dichlorobenzene         | ND        |                   | 100 | nĄ       |
|    | 1,2-Dichlorobenzene         | ND        |                   | 100 |          |
|    | 1,2-Dibromo-3-chloropropane | ND        | 방법 의장             | 500 | iai      |
|    | 1,2,4-Trichlorobenzene      | ND        | 이 요즘은 주요?         | 100 | ÷Ř       |
| S. | Hexachlorobutadiene         | ND        | 1 a. 1654 918     | 500 | 72       |
|    | 1,2,3-Trichlorobenzene      | ND        | : 성격 감기           | 100 |          |
| 2  |                             | 1 C 1 N 2 | 5 6 3 6           |     | 1.0      |

|                      | . F |                   | 14  | Percent  | The set |         | Control |
|----------------------|-----|-------------------|-----|----------|---------|---------|---------|
| Surrogate            |     | 3.21 - 2          | - 9 | Recovery | . P.    | ,       | Limits  |
| Dibromofluoromethane |     |                   | 8   | 92       |         |         | 71-133  |
| Toluene-d8           |     |                   |     | 99       | 5       |         | 80-151  |
| 4-Bromofluorobenzene |     | 1 (S. 282)<br>2 - | ,   | 94       | ÷. 2. 2 | ste i f | 75-139  |

## HALOGENATED VOLATILES by EPA 8260B Page 1 of 2

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| Date Extracted:<br>Date Analyzed: | 8-17-00<br>8-17-00 |
|-----------------------------------|--------------------|
| Matrix:<br>Units:                 | Air<br>ug/L (ppb)  |
| Lab ID:                           | 08-161-03          |

Client ID: VE2-EFF-1

| 4 No. 2 Aug. | 67 (Setter <sup>10</sup> | 유 여 - 아이 가 많 !!     |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------|-----|
| Compound                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Results                  | Flags               | PQL |
| Dichlorodifluoromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ND                       | 1 S. S.             | 100 |
| Chloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ND                       | 12.2 2              | 100 |
| Vinyi Chloride                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ND                       | - Prist 1776        | 100 |
| Bromomethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ND                       |                     | 100 |
| Chloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ND                       |                     | 100 |
| Trichlorofluoromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ND                       | 지 같은 것              | 100 |
| 1,1-Dichloroethene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ND                       |                     | 100 |
| Methylene Chloride                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ND                       | i de stat           | 500 |
| (trans) 1,2-Dichloroethene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ND                       |                     | 100 |
| 1,1-Dichloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ND                       |                     | 100 |
| 2,2-Dichloropropane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ND                       |                     | 100 |
| (cis) 1,2-Dichloroethene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ND                       | 화가 이 집 같이 없         | 100 |
| Chloroform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ND                       | 이 것이에 있는            | 100 |
| 1,1,1-Trichloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ND                       | ji gilile n/li      | 100 |
| Carbon Tetrachloride                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ND                       | 12 A. S. S.         | 100 |
| 1,1-Dichloropropene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ND                       | 1                   | 100 |
| 1,2-Dichloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ND                       | - A. C.             | 100 |
| Trichloroethene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ND                       |                     | 100 |
| 1,2-Dichloropropane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ND                       |                     | 100 |
| Dibromomethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ND                       |                     | 100 |
| Bromodichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ND                       | er e                | 100 |
| 2-Chloroethyl Vinyl Ether                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ND                       | a (255 <sup>6</sup> | 500 |
| (cis) 1,3-Dichloropropene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ND                       |                     | 100 |
| (trans) 1,3-Dichloropropene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ND                       |                     | 100 |
| 1,1,2-Trichloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ND                       |                     | 100 |
| Tetrachloroethene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7800                     | · · · ·             | 100 |
| 1,3-Dichloropropane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ND                       |                     | 100 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                     |     |

### HALOGENATED VOLATILES by EPA 8260B Page 2 of 2

| Lab ID:    |  | ÷  |
|------------|--|----|
| Client ID: |  | ÷. |

| 08-161-03 |  |
|-----------|--|
| VE2-EFF-1 |  |

|   |                             |         | a se pello fille por | 1   | 1   |
|---|-----------------------------|---------|----------------------|-----|-----|
|   | Compound                    | Results | Flags                | PQL |     |
|   | Dibromochloromethane        | ND      | 집중의 것은               | 100 |     |
|   | 1,2-Dibromoethane           | ND      |                      | 100 | 1   |
|   | Chlorobenzene               | ND      | 2 2 관리 전 이 전         | 100 |     |
|   | 1,1,1,2-Tetrachloroethane   | ND      | 그 김희 아이지             | 100 |     |
|   | Bromoform                   | ND      |                      | 100 | ĥ   |
|   | Bromobenzene                | ND      | 5.0 %                | 100 |     |
|   | 1,1,2,2-Tetrachloroethane   | ND .    | A 16.24              | 100 |     |
| l | 1,2,3-Trichloropropane      | ND      |                      | 100 |     |
|   | 2-Chlorotoluene             | ND      |                      | 100 |     |
| ċ | 4-Chlorotoluene             | ND      | 142 - 18 - C         | 100 | 1   |
|   | 1,3-Dichlorobenzene         | ND      |                      | 100 |     |
|   | 1,4-Dichlorobenzene         | ND      |                      | 100 | ĉ   |
|   | 1,2-Dichlorobenzene         | ND .    |                      | 100 |     |
|   | 1,2-Dibromo-3-chloropropane | ND      |                      | 500 |     |
|   | 1,2,4-Trichlorobenzene      | ND      | 김 은 아파 같은            | 100 |     |
|   | Hexachlorobutadiene         | ND      | S. C. S. M.          | 500 |     |
| 2 | 1,2,3-Trichlorobenzene      | ND      | i stina se           | 100 |     |
|   |                             | 52      |                      |     | e00 |

|                      | Percent  | Control |
|----------------------|----------|---------|
| Surrogate            | Recovery | Limits  |
| Dibromofluoromethane | 92       | 71-133  |
| Toluene-d8           | 96       | 80-151  |
| 4-Bromofluorobenzene | 95       | 75-139  |

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## HALOGENATED VOLATILES by EPA 8260B Page 1 of 2

| Date Extracted:<br>Date Analyzed: | · · · · · ·   | 7-00<br>7-00             |
|-----------------------------------|---------------|--------------------------|
| Matrix:<br>Units:                 | _ Air<br>`ug/ | L (ppb)                  |
| Lab ID:<br>Client ID:             |               | 161-04<br><b>2-EFF-2</b> |

VE2-EFF-2

|                             |         | S 4 3                                       |     |
|-----------------------------|---------|---------------------------------------------|-----|
| Compound                    | Results | Flags                                       | PQL |
| Dichlorodifluoromethane     | ND      |                                             | 100 |
| Chloromethane               | ND      |                                             | 100 |
| Vinyl Chloride              | ND      | i kasi -                                    | 100 |
| Bromomethane                | ND      | 4 6 F - 6                                   | 100 |
| Chloroethane                | ND      |                                             | 100 |
| Trichlorofluoromethane      | ND      | i defad                                     | 100 |
| 1,1-Dichloroethene          | ND      | 나다. 이 아이 아 | 100 |
| Methylene Chloride          | ND      |                                             | 500 |
| (trans) 1,2-Dichloroethene  | ND      |                                             | 100 |
| 1,1-Dichloroethane          | ND      | i fi lea Ruit                               | 100 |
| 2,2-Dichloropropane         | ND      |                                             | 100 |
| (cis) 1,2-Dichloroethene    | ND      |                                             | 100 |
| Chloroform                  | ND      |                                             | 100 |
| 1,1,1-Trichloroethane       | ND      | 말 아니는 것 같아요. ^^^                            | 100 |
| Carbon Tetrachloride        | ND      |                                             | 100 |
| 1,1-Dichloropropene         | ND      |                                             | 100 |
| 1,2-Dichloroethane          | ND .    |                                             | 100 |
| Trichloroethene             | ND      | 1.00                                        | 100 |
| 1,2-Dichloropropane         | ND      | a *.                                        | 100 |
| Dibromomethane              | ND      |                                             | 100 |
| Bromodichloromethane        | ND      |                                             | 100 |
| 2-Chloroethyl Vinyl Ether   | ND      |                                             | 500 |
| (cis) 1,3-Dichloropropene   | ND      |                                             | 100 |
| (trans) 1,3-Dichloropropene | ND      |                                             | 100 |
| 1,1,2-Trichloroethane       | ND      |                                             | 100 |
| Tetrachloroethene           | 9500    | .e                                          | 100 |
| 1,3-Dichloropropane         | ND      |                                             | 100 |
|                             |         | 5 m                                         |     |

### HALOGENATED VOLATILES by EPA 8260B Page 2 of 2

Lab ID: Client ID:

08-161-04 VE2-EFF-2

|   |                             | 2. April 10 April |       |
|---|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|   | Compound                    | Results Flag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | s PQL |
|   | Dibromochloromethane        | ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100   |
|   | 1,2-Dibromoethane           | ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100   |
|   | Chlorobenzene               | ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100   |
|   | 1,1,1,2-Tetrachloroethane   | ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100   |
|   | Bromoform                   | ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100   |
|   | Bromobenzene                | ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100   |
| 1 | 1,1,2,2-Tetrachloroethane   | ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100   |
| 1 | 1,2,3-Trichloropropane      | ND '                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 100   |
|   | 2-Chlorotoluene             | ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100   |
|   | 4-Chlorotoluene             | ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100   |
|   | 1,3-Dichlorobenzene         | ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100   |
|   | 1,4-Dichlorobenzene         | ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100   |
|   | 1,2-Dichlorobenzene         | ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100   |
|   | 1,2-Dibromo-3-chloropropane | ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 500   |
|   | 1,2,4-Trichlorobenzene      | ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100   |
|   | Hexachlorobutadiene         | ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 500   |
|   | 1,2,3-Trichlorobenzene      | ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100   |
|   |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |

| Surrogate            |                 | ercent<br>covery | Control<br>Limits |
|----------------------|-----------------|------------------|-------------------|
| Dibromofluoromethane |                 | 92               | 71-133            |
| Toluene-d8           |                 | 90               | 80-151            |
| 4-Bromofluorobenzene | ge s <u>.</u> . | 92               | 75-139            |

### HALOGENATED VOLATILES by EPA 8260B Page 1 of 2

| Date Extracted:       | 8-17-00                | - 19 |
|-----------------------|------------------------|------|
| Date Analyzed:        | 8-17-00                |      |
| Matrix:<br>Units:     | Air<br>ug/L (ppb)      |      |
| Lab ID:<br>Client ID: | 08-161-05<br>VE3-EFF-1 |      |

|    | Commonwed                   | Descrites |              | DOL |
|----|-----------------------------|-----------|--------------|-----|
| i, | Compound                    | Results   | Flags        | PQL |
|    | Dichlorodifluoromethane     | ND        |              | 100 |
|    | Chloromethane               | ND        | Strate 3     | 100 |
|    | Vinyl Chloride              | ND        |              | 100 |
|    | Bromomethane                | ND        |              | 100 |
|    | Chloroethane                | ND        |              | 100 |
|    | Trichlorofluoromethane      | ND        | 영국 일상        | 100 |
|    | 1,1-Dichloroethene          | ND        | 그 같아요. 가고 28 | 100 |
|    | Methylene Chloride          | ND        |              | 500 |
|    | (trans) 1,2-Dichloroethene  | ND        |              | 100 |
|    | 1,1-Dichloroethane          | ND        | Maria d      | 100 |
|    | 2,2-Dichloropropane         | ND        | 20 - 1 - AL  | 100 |
|    | (cis) 1,2-Dichloroethene    | ND        |              | 100 |
|    | Chloroform                  | ND        | 그 제품 관계로     | 100 |
|    | 1,1,1-Trichloroethane       | ND        | 18 - N 17    | 100 |
|    | Carbon Tetrachloride        | ND        | an an Aria   | 100 |
|    | 1,1-Dichloropropene         | ND        |              | 100 |
|    | 1,2-Dichloroethane          | ND        |              | 100 |
|    | Trichloroethene             | ND        |              | 100 |
|    | 1,2-Dichloropropane         | ND        | i ja 1 det 8 | 100 |
|    | Dibromomethane              | ND        |              | 100 |
|    | Bromodichloromethane        | ND        | Sec. 1 1     | 100 |
|    | 2-Chloroethyl Vinyl Ether   | ND        | . E 1916     | 500 |
|    | (cis) 1,3-Dichloropropene   | ND        | a 11         | 100 |
|    | (trans) 1,3-Dichloropropene | ND        | S            | 100 |
|    | 1,1,2-Trichloroethane       | ND        |              | 100 |
|    | Tetrachloroethene           | 7300      |              | 100 |
|    | 1,3-Dichloropropane         | ND        |              | 100 |
|    |                             |           |              |     |

1,2,3-Trichlorobenzene

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## HALOGENATED VOLATILES by EPA 8260B Page 2 of 2

ND

| Lab ID: 08-161-05<br>Client ID: VE3-EFF- |           |          |
|------------------------------------------|-----------|----------|
|                                          |           |          |
| Compound                                 | Results F | lags PQL |
| Dibromochloromethane                     | ND        | 100      |
| 1,2-Dibromoethane                        | ND        | 100      |
| Chlorobenzene                            | ND        | 100      |
| 1,1,1,2-Tetrachloroethane                | ND        | 100      |
| Bromoform                                | ND        | 100      |
| Bromobenzene                             | ND        | 100      |
| 1,1,2,2-Tetrachloroethane                | ND        | 100      |
| 1,2,3-Trichloropropane                   | ND        | 100      |
| 2-Chlorotoluene                          | ND        | 100      |
| 4-Chlorotoluene                          | ND        | 100      |
| 1,3-Dichlorobenzene                      | ND        | 100      |
| 1,4-Dichlorobenzene                      | ND        | 100      |
| 1,2-Dichlorobenzene                      | ND        | 100      |
| 1,2-Dibromo-3-chloropropane              | ND        | 500      |
| 1,2,4-Trichlorobenzene                   | ND        | 100      |
| Hexachlorobutadiene                      | ND        | 500      |

|                      | Percent  | Control |
|----------------------|----------|---------|
| Surrogate            | Recovery | Limits  |
| Dibromofluoromethane | 93       | 71-133  |
| Toluene-d8           | 99       | 80-151  |
| 4-Bromofluorobenzene | 94       | 75-139  |

## HALOGENATED VOLATILES by EPA 8260B Page 1 of 2

| Date Extracted: | 8-17-00    |        |
|-----------------|------------|--------|
| Date Analyzed:  | 8-17-00    |        |
|                 |            |        |
| Matrix:         | Air        | - 23 5 |
| Units:          | ug/L (ppb) | (*) 😤  |
|                 |            |        |
| Lab ID:         | 08-161-06  |        |
| Client ID:      | VE3-EFF-2  |        |
|                 |            |        |

|   |                             | 1       |                                          | R 10 |
|---|-----------------------------|---------|------------------------------------------|------|
|   | Compound                    | Results | Flags                                    | PQL  |
|   | Dichlorodifluoromethane     | ND      |                                          | 100  |
|   | Chloromethane               | ND      |                                          | 100  |
|   | Vinyl Chloride              | ND      |                                          | 100  |
|   | Bromomethane                | ND      |                                          | 100  |
|   | Chloroethane                | ND      | 1                                        | 100  |
|   | Trichlorofluoromethane      | ND      | 동네 가지 않는 것                               | 100  |
|   | 1,1-Dichloroethene          | ND      | 집에 걸려 가지 않는                              | 100  |
|   | Methylene Chloride          | ND      | na filadar                               | 500  |
|   | (trans) 1,2-Dichloroethene  | ND      | ~ 있는것 2월 문                               | 100  |
|   | 1,1-Dichloroethane          | ND      |                                          | 100  |
|   | 2,2-Dichloropropane         | ND      |                                          | 100  |
|   | (cis) 1,2-Dichloroethene    | ND      |                                          | 100  |
| 2 | Chloroform                  | ND      | 그렇는 그 바람 같은                              | 100  |
|   | 1,1,1-Trichloroethane       | ND      | a mula a sa a                            | 100  |
|   | Carbon Tetrachloride        | ND      |                                          | 100  |
|   | 1,1-Dichloropropene         | ND      | ు బాజ్లో అ                               | 100  |
|   | 1,2-Dichloroethane          | ND      |                                          | 100  |
|   | Trichloroethene             | ND      | 김 씨는 가슴을                                 | 100  |
|   | 1,2-Dichloropropane         | ND      | n ann an sea                             | 100  |
|   | Dibromomethane              | ND      | - Katala                                 | 100  |
|   | Bromodichloromethane        | ND      |                                          | 100  |
|   | 2-Chloroethyl Vinyl Ether   | ND      |                                          | 500  |
|   | (cis) 1,3-Dichloropropene   | ND      | ર દુધન છે.                               | 100  |
|   | (trans) 1,3-Dichloropropene | ND      | 4. I I I I I I I I I I I I I I I I I I I | 100  |
|   | 1,1,2-Trichloroethane       | ND      | 그는 영어 전 문                                | 100  |
|   | Tetrachloroethene           | 10000   |                                          | 100  |
|   | 1,3-Dichloropropane         | ND      | లి, వి.రి.                               | 100  |
|   |                             |         |                                          |      |

# HALOGENATED VOLATILES by EPA 8260B Page 2 of 2

|   | Lab ID: 08-16               | 1-06    |                     |      |
|---|-----------------------------|---------|---------------------|------|
|   | Client ID: VE3-E            | FF-2    | 만양 걸 옷 만 문          | ēκ π |
|   |                             |         |                     | 1    |
|   | Compound                    | Results | Flags               | PQL  |
|   | Dibromochloromethane        | ND      |                     | 100  |
|   | 1,2-Dibromoethane           | ND      | ျပ်သွင်းလုန်းဖ      | 100  |
|   | Chlorobenzene               | ND      | 3                   | 100  |
| - | 1,1,1,2-Tetrachloroethane   | ND      | 2 2                 | 100  |
|   | Bromoform                   | ND      |                     | 100  |
|   | Bromobenzene                | ND      | an a she te         | 100  |
|   | 1,1,2,2-Tetrachloroethane   | ND      | 「咳 煎粥」 い            | 100  |
|   | 1,2,3-Trichloropropane      | ND      | - 16 J              | 100  |
|   | 2-Chlorotoluene             | ND      |                     | 100  |
|   | 4-Chlorotoluene             | ND      | · · · · · · · · · · | 100  |
|   | 1,3-Dichlorobenzene         | ND      | Section Sec.        | 100  |
|   | 1,4-Dichlorobenzene         | ND      | at in a second      | 100  |
|   | 1,2-Dichlorobenzene         | ND      |                     | 100  |
|   | 1,2-Dibromo-3-chloropropane | ND      | 요즘, 맛있는 아들은 것       | 500  |
|   | 1,2,4-Trichlorobenzene      | ND      | X 3. 172            | 100  |
|   | Hexachlorobutadiene         | ND      | 11 J. M. M. L       | 500  |
|   | 1,2,3-Trichlorobenzene      | ND      | , 노 : 20 일 - 1      | 100  |
|   |                             |         |                     |      |

|                      | Percent  | 1. Start 1. | Control |
|----------------------|----------|-------------|---------|
| Surrogate            | Recovery | 18 J. 14    | Limits  |
| Dibromofluoromethane | 93       | *           | 71-133  |
| Toluene-d8           | 95       | Sea an t    | 80-151  |
| 4-Bromofluorobenzene | 95       |             | 75-139  |

# HALOGENATED VOLATILES by EPA 8260B Page 1 of 2

| Date Extracted: | 8                                        | 3-17-00                                 |
|-----------------|------------------------------------------|-----------------------------------------|
| Date Analyzed:  | 8                                        | -17-00                                  |
|                 |                                          |                                         |
| Matrix:         | , All All All All All All All All All Al | ٨r                                      |
| Units:          | 200 A 200                                | ıg/L (ppb)                              |
|                 |                                          | 1 A A A A A A A A A A A A A A A A A A A |

Lab ID: Client ID:

H

|                             | <b>D</b> | i per se                               | DOL   |
|-----------------------------|----------|----------------------------------------------------------------------------|-------|
| Compound                    | Results  | Flags                                                                      | PQL   |
| Dichlorodifluoromethane     | ND       |                                                                            | 100   |
| Chloromethane               | ND       |                                                                            | 100   |
| Vinyl Chloride              | ND       | 1917 - NY 1917 -                                                           | 100   |
| Bromomethane                | ND       |                                                                            | 100   |
| Chloroethane                | ND       |                                                                            | 100   |
| Trichlorofluoromethane      | ND       | 이 물거야요.                                                                    | 100   |
| 1,1-Dichloroethene          | ND       | ुन्द कर्ल स्ट्रि                                                           | 100   |
| Methylene Chloride          | ND       | The second second                                                          | 500   |
| (trans) 1,2-Dichloroethene  | ND       |                                                                            | 100   |
| 1,1-Dichloroethane          | ND       |                                                                            | 100   |
| 2,2-Dichloropropane         | ND       | a de la                                                                    | 100   |
| (cis) 1,2-Dichloroethene    | ND       | 5 A. T. P. A                                                               | 100   |
| Chloroform                  | ND       | alar ta an                                                                 | 100 : |
| 1,1,1-Trichloroethane       | ND       |                                                                            | 100   |
| Carbon Tetrachloride        | ND       | 84 . Sta                                                                   | 100   |
| 1,1-Dichloropropene         | ND       |                                                                            | 100   |
| 1,2-Dichloroethane          | ND       | 요구 환자 가지.                                                                  | 100   |
| Trichloroethene             | ND       |                                                                            | 100   |
| 1,2-Dichloropropane         | ND       | ಂ ್ಟಿಷ್ ಮ                                                                  | 100   |
| Dibromomethane              | ND       |                                                                            | 100   |
| Bromodichloromethane        | ND       | 2                                                                          | 100   |
| 2-Chloroethyl Vinyl Ether   | ND       |                                                                            | 500   |
| (cis) 1,3-Dichloropropene   | ND       | 이 같은 가슴을 가슴을 다 다 가슴을 다 다 가슴을 다 다 가슴을 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 | 100   |
| (trans) 1,3-Dichloropropene | ND       |                                                                            | 100   |
| 1,1,2-Trichloroethane       | ND       |                                                                            | 100   |
| Tetrachloroethene           | 8000     | . 19 N. 19 N.                                                              | 100   |
| 1,3-Dichloropropane         | ND       |                                                                            | 100   |
|                             |          |                                                                            |       |

08-161-07 VE3-EFF-4

### HALOGENATED VOLATILES by EPA 8260B Page 2 of 2

| Lab ID:    | 8 <sub>G</sub> |  | Ì |
|------------|----------------|--|---|
| Client ID: |                |  |   |

| 08-161 | 1-07                      |
|--------|---------------------------|
|        | <ul> <li>1.8.7</li> </ul> |
| VE3-E  | FF-4                      |

|   |                             | Y1 1. 4 |                  | 12 M |   |
|---|-----------------------------|---------|------------------|------|---|
|   | Compound                    | Results | Flags            | PQL  | ŝ |
|   | Dibromochloromethane        | ND      | 전 관리의 사람         | 100  |   |
|   | 1,2-Dibromoethane           | ND      | 2 일을 위한 것        | 100  |   |
| č | Chlorobenzene               | ND      |                  | 100  |   |
|   | 1,1,1,2-Tetrachloroethane   | ND      | 고 한 에 지었는        | 100  |   |
|   | Bromoform                   | ND      | - <b>.</b>       | 100  |   |
|   | Bromobenzene                | ND      | - 1. S. 1. A. 1. | 100  |   |
|   | 1,1,2,2-Tetrachloroethane   | ND .    | 计算法 建金属          | 100  |   |
|   | 1,2,3-Trichloropropane      | ND      |                  | 100  |   |
|   | 2-Chlorotoluene             | ND      | 12 7.1           | 100  | 1 |
|   | 4-Chlorotoluene             | ND      | 같이 한편하다          | 100  | i |
|   | 1,3-Dichlorobenzene         | ND      |                  | 100  |   |
|   | 1,4-Dichlorobenzene         | ND      | 화장철 소신           | 100  | į |
| c | 1,2-Dichlorobenzene         | ND      | 85. 5            | 100  | į |
|   | 1,2-Dibromo-3-chloropropane | ND      | 소영계수가님           | 500  |   |
|   | 1,2,4-Trichlorobenzene      | ND      | 이 영화 성           | 100  |   |
|   | Hexachlorobutadiene         | ND ,    |                  | 500  |   |
|   | 1,2,3-Trichlorobenzene      | ND      |                  | 100  |   |
|   |                             | N 10 10 |                  |      |   |

| Surrogate            | Percent<br>Recovery | Control<br>Limits |
|----------------------|---------------------|-------------------|
| Dibromofluoromethane | 92                  | 71-133            |
| Toluene-d8           | 99                  | 80-151            |
| 4-Bromofluorobenzene | 95                  | 75-139            |

## HALOGENATED VOLATILES by EPA 8260B METHOD BLANK QUALITY CONTROL Page 1 of 2

Date Extracted: Date Analyzed: 8-17-00 8-17-00

| Matrix: |          | 194 | Air         |
|---------|----------|-----|-------------|
| Units:  | 5.50<br> |     | ug/L (ppb)  |
|         | 11 2     | 1.1 | State incom |

Lab ID:

MB0817A1

| Compound                    | Results | Flags                                          | PQL 😳 |
|-----------------------------|---------|------------------------------------------------|-------|
| Dichlorodifluoromethane     | ND      | i ji ka sa | 1.0   |
| Chloromethane               | ND      |                                                | 1.0   |
| Vinyl Chloride              | ND      | d to be the set                                | 1.0   |
| Bromomethane                | ND      |                                                | 1.0   |
| Chloroethane                | ND      | Pre 10 000 cm                                  | 1.0   |
| Trichlorofluoromethane      | ND      |                                                | 1.0   |
| 1,1-Dichloroethene          | ND      |                                                | 1.0   |
| Methylene Chloride          | ND      |                                                | 5.0   |
| (trans) 1,2-Dichloroethene  | ND      |                                                | 1.0   |
| 1,1-Dichloroethane          | ND      |                                                | 1:0   |
| 2,2-Dichloropropane         | ND      | ા સુરાષ્ટ્ર નિનિત્સ                            | 1.0   |
| (cis) 1,2-Dichloroethene    | ND      |                                                | 1.0   |
| Chloroform                  | ND      | jan i <sup>An</sup> Suit                       | 1.0   |
| 1,1,1-Trichloroethane       | ND      |                                                | 1.0   |
| Carbon Tetrachloride        | ND      | 승규는 가슴을 가 가                                    | 1.0   |
| 1,1-Dichloropropene         | ND      |                                                | 1.0   |
| 1,2-Dichloroethane          | ND      | 양 지갑하는 것                                       | 1.0   |
| Trichloroethene             | ND      | Certine 4 all                                  | 1.0   |
| 1,2-Dichloropropane         | ND      |                                                | 1.0   |
| Dibromomethane              | ND      | 2                                              | 1.0   |
| Bromodichloromethane        | ND      | 1                                              | 1.0   |
| 2-Chloroethyl Vinyl Ether   | ND      |                                                | 5.0   |
| (cis) 1,3-Dichloropropene   | ND      |                                                | 1.0   |
| (trans) 1,3-Dichloropropene | ND      |                                                | 1.0   |
| 1,1,2-Trichloroethane       | ND      | 6                                              | 1.0   |
| Tetrachloroethene           | ND      | 10 ° °                                         | 1.0   |
| 1,3-Dichloropropane         | ND      |                                                | 1.0   |

### HALOGENATED VOLATILES by EPA 8260B METHOD BLANK QUALITY CONTROL Page 2 of 2

Lab ID:

Π

| 이 가슴 | A. D. KONOM, R. 244 |       |
|------------------------------------------|---------------------|-------|
| Compound                                 | Results Flags       | PQL   |
| Dibromochloromethane                     | ND                  | 1.0   |
| 1,2-Dibromoethane                        | ND .                | 1.0   |
| Chlorobenzene                            | ND                  | 1.0   |
| 1,1,1,2-Tetrachloroethane                | ND                  | . 1.0 |
| Bromoform                                | ND                  | 1.0   |
| Bromobenzene                             | ND                  | 1.0   |
| 1,1,2,2-Tetrachloroethane                | ND                  | 1.0   |
| 1,2,3-Trichloropropane                   | ND                  | 1.0   |
| 2-Chlorotoluene                          | ND                  | 1.0   |
| 4-Chlorotoluene                          | ND                  | 1.0   |
| 1,3-Dichlorobenzene                      | ND                  | 1.0   |
| 1,4-Dichlorobenzene                      | ND                  | 1.0   |
| 1,2-Dichlorobenzene                      | ND                  | 1.0   |
| 1,2-Dibromo-3-chloropropane              | ND                  | 5.0   |
| 1,2,4-Trichlorobenzene                   | ND                  | 1.0   |
| Hexachlorobutadiene                      | ND                  | 5.0   |
| 1,2,3-Trichlorobenzene                   | ND                  | 1.0   |
|                                          |                     |       |

MB0817A1

|                      | Percent  | 9 A.U.<br>367 | Control |
|----------------------|----------|---------------|---------|
| Surrogate            | Recovery |               | Limits  |
| Dibromofluoromethane | 93       | 182           | 71-133  |
| Toluene-d8           | 97       |               | 80-151  |
| 4-Bromofluorobenzene | 96       |               | 75-139  |

## HALOGENATED VOLATILES by EPA 8260B DUPLICATE QUALITY CONTROL Page 1 of 2

| Date Extracted: |  |    |   |    | 8-17-00    |
|-----------------|--|----|---|----|------------|
| Date Analyzed:  |  |    | 1 | P. | 8-17-00    |
| PC              |  | 10 |   |    | 90 - 40 DK |

| Matrix: |      | 1.1  | Air        | 2.3 |
|---------|------|------|------------|-----|
| Units:  | r, i | 8.8  | ug/L (ppb) |     |
|         |      | 1000 |            |     |

Lab ID:

08-161-02

|   |                             | Sample  | Duplicate | 같아 다니                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1 (M)<br>1 (X) |
|---|-----------------------------|---------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
|   | Compound                    | Results | Results   | Flags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RPD            |
|   | Dichlorodifluoromethane     | ND      | ND        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NA             |
|   | Chloromethane               | ND      | ND        | 영양 영화 영화 이 것                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NA             |
|   | Vinyl Chloride              | ND      | ND        | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NA             |
|   | Bromomethane                | ND      | ND        | i da di kaca                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NA             |
|   | Chloroethane                | ND      | ND        | 4.123                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | NA             |
|   | Trichlorofluoromethane      | ND      | ND        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NA             |
|   | 1,1-Dichloroethene          | ND      | ND        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NA             |
| Î | Methylene Chloride          | ND      | ND        | 꽃을 가 없어?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NA             |
|   | (trans) 1,2-Dichloroethene  | ND      | ND        | 3667 및 DEA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NA             |
|   | 1,1-Dichloroethane          | ND      | ND        | 한 집에 있는 것을 것                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NA             |
|   | 2,2-Dichloropropane         | ND      | ND        | 이야지 않는                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NA             |
|   | (cis) 1,2-Dichloroethene    | ND      | ND        | 영양을 가 있었다.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NA             |
|   | Chloroform                  | ND      | ND        | 이 아프 말한 문                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA             |
|   | 1,1,1-Trichloroethane       | ND      | ND        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NA             |
|   | Carbon Tetrachloride        | ND      | ND        | it is a second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NA             |
|   | 1,1-Dichloropropene         | ND      | ND        | · 같이 나는 말을 하는 것이 다. 말을 수 있다. 말을 하는 것이 다. 말을 수 있다. 말을 하는 것이 다. 말을 들 수 있다. 말을 수 있다 | NA             |
|   | 1,2-Dichloroethane          | ND      | ND        | 559 - 11 W-12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NA             |
|   | Trichloroethene             | ND      | ND        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NA             |
|   | 1,2-Dichloropropane         | ND      | ND        | , NS 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NA             |
|   | Dibromomethane              | ND      | ND        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NA             |
|   | Bromodichloromethane        | ND      | ND        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NA             |
|   | 2-Chloroethyl Vinyl Ether   | ND      | ND        | 김, 김 대왕 전                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA             |
|   | (cis) 1,3-Dichloropropene   | ND      | ND        | 3 3 4 1 L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA             |
|   | (trans) 1,3-Dichloropropene | ND      | ND        | 이 아이 물건                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NA             |
|   | 1,1,2-Trichloroethane       | ND      | ND .      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NA             |
|   | Tetrachloroethene           | 5300    | 5300      | U 🖞 🕺 🖄                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0              |
|   | 1,3-Dichloropropane         | ND      | ND        | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NA             |
|   |                             |         |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |

### HALOGENATED VOLATILES by EPA 8260B DUPLICATE QUALITY CONTROL Page 2 of 2

08-161-02

Lab ID:

|                             | Duplicate | Duplicate |                                         |      |
|-----------------------------|-----------|-----------|-----------------------------------------|------|
| Compound                    | Results   | Results   | Flags                                   | RPD  |
| Dibromochloromethane        | ND        | ND        |                                         | NA   |
| 1,2-Dibromoethane           | ND        | ND        | S. Same and                             | NA   |
| Chlorobenzene               | ND        | ND        | ಂಗ್ರೆ ಕ್ರೀ ''                           | NA   |
| 1,1,1,2-Tetrachloroethane   | ND        | ND        |                                         | . NA |
| Bromoform                   | ND        | ND        |                                         | NA   |
| Bromobenzene                | ND        | ND        | 2 - <sup>1</sup> - 80                   | NA   |
| 1,1,2,2-Tetrachloroethane   | ND        | ND        |                                         | NA   |
| 1,2,3-Trichloropropane      | ND        | ND        | en a desta                              | NA   |
| 2-Chlorotoluene             | ND        | ND        |                                         | NA   |
| 4-Chlorotoluene             | ND        | ND        | . 아이 상태 ^                               | NA   |
| 1,3-Dichlorobenzene         | ND        | ND        |                                         | NA   |
| 1,4-Dichlorobenzene         | ND        | ND        |                                         | NA   |
| 1,2-Dichlorobenzene         | ND        | ND        | 1                                       | NA   |
| 1,2-Dibromo-3-chloropropane | ND        | ND        |                                         | NA   |
| 1,2,4-Trichlorobenzene      | ND        | ND        | શાળા મંચ્છે. જોવ્ય                      | NA   |
| Hexachlorobutadiene         | ND        | ND        | 승규는 성격을 얻어                              | NA   |
| 1,2,3-Trichlorobenzene      | ND        | ND        |                                         | NA   |
|                             |           | 20 TO CA. | <ol> <li>A. A. G. CARRON, P.</li> </ol> |      |

| S                    |                | 0.0    |           | A        | 5.8° - 18    | 0       |
|----------------------|----------------|--------|-----------|----------|--------------|---------|
| ⊋*                   | s." - "        |        | Duplicate | Percent  |              | Control |
| Surrogate            | е <u>з</u> е", | 2      | Recovery  | Recovery | 5 4 <u>8</u> | Limits  |
| Dibromofluoromethane | 54) × 11       | 100351 | 92        | 91       |              | 71-133  |
| Toluene-d8           | 975 A. 4       | +      | 99        | 98       |              | 80-151  |
| 4-Bromofluorobenzene | i e en l'      |        | 94        | 93       |              | 75-139  |



#### DATA QUALIFIERS AND ABBREVIATIONS

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

D - Data from 1:\_\_\_\_\_ dilution.

E - The value reported exceeds the quantitation range, and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

G - Insufficient sample quantity for duplicate analysis.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeniety. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

O - Hydrocarbons outside the defined gasoline range are present in the sample; NWTPH-Dx recommended.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a silica gel cleanup procedure.

Y - Sample extract treated with an acid cleanup procedure.

Ζ-

ND - Not Detected at PQL

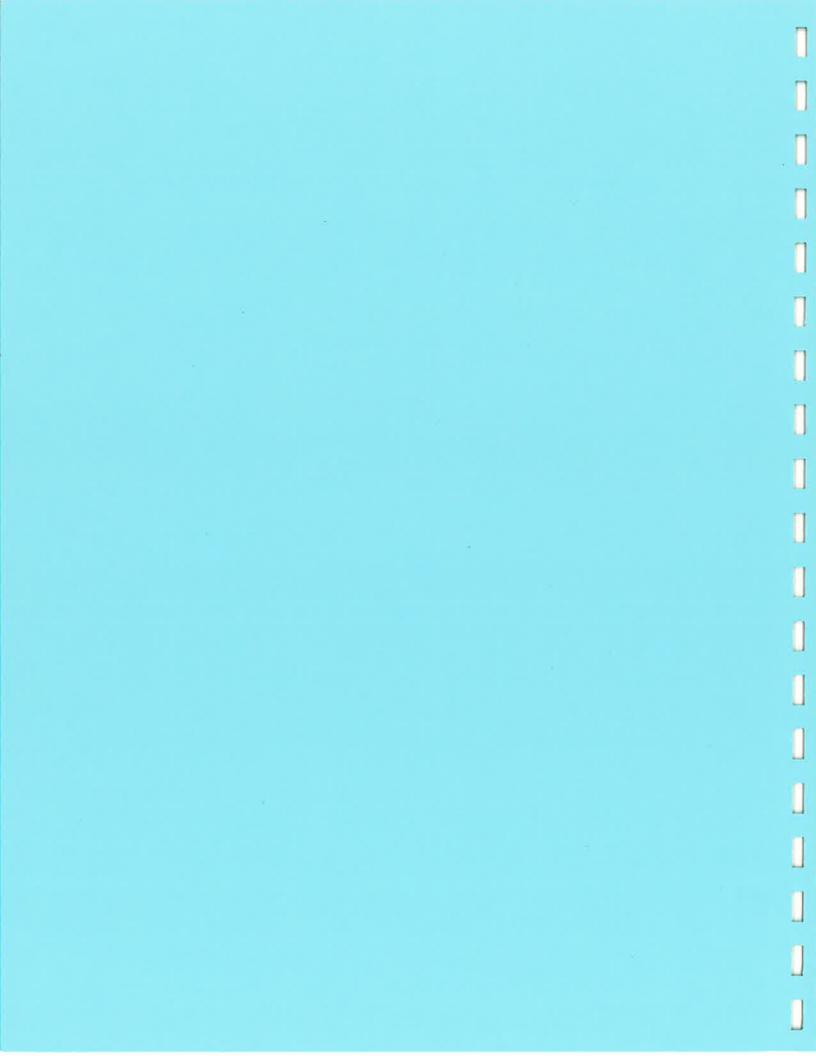
MRL - Method Reporting Limit

PQL - Practical Quantitation Limit

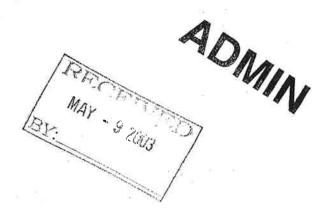
**RPD - Relative Percent Difference** 

|                                                          | . OnSite                                                                                                                                                      |                                         |                                | C                                                                                       | nain                                                | of                                                                             | Cu   | S             | 0        | dy                 | 8                              | 2                      | -             | 1             |                   |                       |              |                    |          |      | Pag  | e  | of _ |            |   |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------|------|---------------|----------|--------------------|--------------------------------|------------------------|---------------|---------------|-------------------|-----------------------|--------------|--------------------|----------|------|------|----|------|------------|---|
| Carlos and                                               | Environment<br>14648 NE 95th Street • Redr<br>Fax: (425) 885-4603 • Phone                                                                                     | nond, WA 98052                          |                                | Turnaroun<br>(in worki                                                                  | d Reque<br>ng days)<br>k One)                       | st<br>)                                                                        | Proj | ject C        | hemi     | ist:               | T                              | 2F                     | 3             | Be            | Constanting of    |                       | rato<br>d Ar | Contraction of the | COLUMN T | 0    | - 8  | 16 | 1    |            |   |
| Project Name                                             | Farallan Consul-<br>603-001                                                                                                                                   | .m, L.L.C.                              | 2 [<br>2 [<br>2 [<br>3 [<br>4] | me Day<br>Day 8                                                                         | analyses<br>ses: 7 da                               | s: 5 days,<br>ays)                                                             |      | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C | PCB's by 8082 |                   | Total RCRA Metals (8) | TCLP Metals  |                    |          |      |      |    |      | sture      |   |
| Lab ID<br>1<br>2<br>3<br>4<br>5<br>4<br>5<br>-<br>7<br>- | Sample Identification<br>VE1 - EFF - 1<br>VE1 - EFF - 2<br>VE2 - EFF - 1<br>VE2 - EFF - 2<br>VE3 - EFF - 2<br>VE3 - EFF - 2<br>VE3 - EFF - 3<br>VE3 - EFF - 4 |                                         | Date<br>Sampled<br>8/15/00     | Time<br>Sampled<br>1026<br>1305<br>1705<br>1705<br>1900<br>1335<br>1605<br>1615<br>1635 | Matrix<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A | # of<br>Cont.<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | MTF  |               | NWTF     | Volativ            | X X X Halog                    | Semiv                  | PAHS          | PCB's         | Pestici           | Total F               | TCLP         | НЫЛ                | ЕРН      |      |      |    |      | % Moisture |   |
| RELINQUISH                                               | HED BY                                                                                                                                                        | DATE<br>S/IC/UD<br>TIME<br>DATE<br>TIME | FIRM<br>FIRM                   | D BY                                                                                    | lut e                                               |                                                                                |      | D             |          | 3/10               | 4/0                            | 0                      |               | COM           | IMEN <sup>®</sup> | Γ <u>S</u> :          |              |                    |          |      |      |    |      |            |   |
| REVIEWED                                                 |                                                                                                                                                               | 10                                      | DATE RE                        | VIEWED                                                                                  | ж с                                                 |                                                                                |      |               |          |                    |                                |                        |               | Chr           | omat              | togra                 | phs          | with               | final    | repo | rt 🗋 |    |      |            | - |

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy







May 7, 2003

Jeff Kaspar Farallon Consulting, LLC 320 3<sup>rd</sup> Avenue NE, Suite 200 Issaquah, WA 98027

Re: Analytical Data for Project 603-001 Laboratory Reference No. 0304-183

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on April 25, 2003.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister

Project Manager

Enclosures

#### **Case Narrative**

Samples were collected on April 25, 2003. Samples were maintained at the laboratory at 4°C and followed SW846 analysis and extraction methods.

## Halogenated Volatiles EPA 8260B Analysis

Any QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

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### HALOGENATED VOLATILES by EPA 8260B Page 1 of 2

| Matrix:<br>Units:                 |   | Water<br>ug/L (ppb) |
|-----------------------------------|---|---------------------|
| Date Extracted:<br>Date Analyzed: | я | 4-29-03<br>4-29-03  |

| Lab ID:    |   | 04-183-01 |
|------------|---|-----------|
| Client ID: | × | MW-1      |
|            |   |           |

|      | Compound<br>Dichlorodifluoromethane<br>Chloromethane<br>Vinyl Chloride<br>Bromomethane<br>Chloroethane<br>Trichlorofluoromethane<br>1,1-Dichloroethene<br>lodomethane<br>Methylene Chloride<br>(trans) 1,2-Dichloroethene<br>1,1-Dichloroethane<br>2,2-Dichloropropane<br>(cis) 1,2-Dichloroethene<br>Bromochloromethane<br>Chloroform<br>1,1,1-Trichloroethane | Results<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>8.1<br>ND<br>0.26<br>ND | Flag | S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PQL<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>1.0<br>1.0<br>0.20<br>0.2 |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
|      | Methylene Chloride                                                                                                                                                                                                                                                                                                                                              |                                                                                                |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -                                                                                |
|      | (trans) 1,2-Dichloroethene                                                                                                                                                                                                                                                                                                                                      |                                                                                                |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                  |
|      | 1,1-Dichloroethane                                                                                                                                                                                                                                                                                                                                              | ND                                                                                             | ž.   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                  |
| 1    | (oip) 1.2 Dichlass 4                                                                                                                                                                                                                                                                                                                                            | ND                                                                                             |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20                                                                             |
| 1    | Cis) 1,2-Dichloroethene                                                                                                                                                                                                                                                                                                                                         |                                                                                                |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20                                                                             |
|      |                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20                                                                             |
|      |                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                |      | in the second se | 0.20                                                                             |
|      | Carbon Tetrachloride                                                                                                                                                                                                                                                                                                                                            | ND                                                                                             |      | G.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.20                                                                             |
|      | I,1-Dichloropropene                                                                                                                                                                                                                                                                                                                                             | ND                                                                                             |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20                                                                             |
| 1    | ,,-Dichloroethane                                                                                                                                                                                                                                                                                                                                               | ND                                                                                             |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20                                                                             |
| 1    | Frichloroethene                                                                                                                                                                                                                                                                                                                                                 | ND                                                                                             |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20                                                                             |
|      | ,2-Dichloropropane                                                                                                                                                                                                                                                                                                                                              | 5.6                                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20                                                                             |
| Г    | Dibromomethane                                                                                                                                                                                                                                                                                                                                                  | ND                                                                                             |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20                                                                             |
|      | Bromodichloromethane                                                                                                                                                                                                                                                                                                                                            | ND                                                                                             |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20                                                                             |
|      | -Chloroethyl Vinyl Ether                                                                                                                                                                                                                                                                                                                                        | ND                                                                                             |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20                                                                             |
| (    | cis) 1,3-Dichloropropene                                                                                                                                                                                                                                                                                                                                        | ND                                                                                             |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.0                                                                              |
| - (f | trans) 1,3-Dichloropropene                                                                                                                                                                                                                                                                                                                                      | ND                                                                                             |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20                                                                             |
| (    |                                                                                                                                                                                                                                                                                                                                                                 | ND                                                                                             |      | 2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.20                                                                             |

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#### HALOGENATED VOLATILES by EPA 8260B Page 2 of 2

| Lab ID:<br>Client ID:                                         | 04-183-01<br><b>MW-1</b> | 14 H                        |                           |
|---------------------------------------------------------------|--------------------------|-----------------------------|---------------------------|
| <b>Compound</b><br>1,1,2-Trichloroethane<br>Tetrachloroethene |                          | Results Flags<br>ND<br>1600 | <b>PQL</b><br>0.20<br>200 |
| 1,3-Dichloropropane                                           |                          | ND                          | 0.20                      |
| Dibromochloromethane                                          | e                        | ND                          | 0.20                      |
| 1,2-Dibromoethane                                             |                          | ND                          | 0.20                      |
| Chlorobenzene                                                 |                          | ND                          | 0.20                      |
| 1,1,1,2-Tetrachloroethane                                     | a e - 222                | ND                          | 0.20                      |
| Bromoform                                                     |                          | ND                          | 1.0                       |
| Bromobenzene                                                  |                          | ND                          | 0.20                      |
| 1,1,2,2-Tetrachloroethane                                     |                          | ND                          | 0.20                      |
| 1,2,3-Trichloropropane                                        |                          | ND /                        | 0.20                      |
| 2-Chlorotoluene                                               |                          | ND                          | 0.20                      |
| 4-Chlorotoluene<br>1,3-Dichlorobenzene                        |                          | ND                          | 0.20                      |
| 1,4-Dichlorobenzene                                           |                          | ND                          | 0.20                      |
| 1,2-Dichlorobenzene                                           | *                        | ND                          | 0.20                      |
| 1,2-Dibromo-3-chloropropane                                   | 3                        | ND<br>ND                    | 0.20                      |
| 1,2,4-Trichlorobenzene                                        |                          | ND                          | 1.0<br>0.20               |
| Hexachlorobutadiene                                           |                          | ND                          | 0.20                      |
| 1,2,3-Trichlorobenzene                                        | *<br>12                  | ND                          | 0.20                      |

|                      | S (5 1916) | Percent  | Control |
|----------------------|------------|----------|---------|
| Surrogate            |            | Recovery | Limits  |
| Dibromofluoromethane |            | 111      | 63-130  |
| Toluene, d8          |            | 97       | 78-113  |
| 4-Bromofluorobenzene |            | 101      | 77-109  |

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## HALOGENATED VOLATILES by EPA 8260B Page 1 of 2

| Date Extracted:<br>Date Analyzed:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4-29-03<br>4-29-03       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       | 8                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------|
| Matrix:<br>Units:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Water<br>ug/L (ppb)      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       | 5                                                                               |
| Lab ID:<br>Client ID:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 04-183-02<br><b>MW-2</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                                                                                 |
| Compound<br>Dichlorodifluoromethane<br>Chloromethane<br>Vinyl Chloride<br>Bromomethane<br>Chloroethane<br>Trichlorofluoromethane<br>1,1-Dichloroethene<br>Iodomethane<br>Methylene Chloride<br>(trans) 1,2-Dichloroethene<br>1,1-Dichloroethane<br>2,2-Dichloropropane<br>(cis) 1,2-Dichloroethene<br>Bromochloromethane<br>Chloroform<br>1,1,1-Trichloroethane<br>Carbon Tetrachloride<br>1,1-Dichloropropene<br>1,2-Dichloropropene<br>1,2-Dichloropropane<br>Dibromomethane<br>Bromodichloromethane<br>2-Chloroethyl Vinyl Ether<br>(cis) 1,3-Dichloropropene<br>(trans) 1,3-Dichloropropene |                          | Results           ND           ND | Flags | PQL<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>1.0<br>1.0<br>1.0<br>0.20<br>0.2 |

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#### HALOGENATED VOLATILES by EPA 8260B Page 2 of 2

| Lab ID:<br>Client ID:       | 04-183-02<br><b>MW-2</b>                  |    |         |           |      |
|-----------------------------|-------------------------------------------|----|---------|-----------|------|
| Compound                    |                                           |    | Results | Flags     | PQL  |
| 1,1,2-Trichloroethane       |                                           | ŝ. | ND      | 3 + 0     | 0.20 |
| Tetrachloroethene           |                                           |    | 3700    |           | 200  |
| 1,3-Dichloropropane         |                                           |    | ND      | 10 m      | 0.20 |
| Dibromochloromethane        |                                           |    | ND      | × .       | 0.20 |
| 1,2-Dibromoethane           |                                           |    | ND      |           | 0.20 |
| Chlorobenzene               | 2                                         |    | ND      |           | 0.20 |
| 1,1,1,2-Tetrachloroethane   |                                           |    | ND      |           | 0.20 |
| Bromoform                   |                                           |    | ND      |           | 1.0  |
| Bromobenzene                |                                           |    | ND      |           | 0.20 |
| 1,1,2,2-Tetrachloroethane   | 5. C. |    | ND      |           | 0.20 |
| 1,2,3-Trichloropropane      | ·                                         |    | ND      | - d.a     | 0.20 |
| 2-Chlorotoluene             | s vij                                     |    | ND      |           | 0.20 |
| 4-Chlorotoluene             |                                           |    | ND      |           | 0.20 |
| 1,3-Dichlorobenzene         |                                           |    | ND      | 10        | 0.20 |
| 1,4-Dichlorobenzene         |                                           |    | ND      |           | 0.20 |
| 1,2-Dichlorobenzene         | ¥.                                        |    | ND      | a la stra | 0.20 |
| 1,2-Dibromo-3-chloropropane |                                           |    | ND      |           | 1.0  |
| 1,2,4-Trichlorobenzene      |                                           |    | ND      |           | 0.20 |
| Hexachlorobutadiene         |                                           |    | ND      |           | 0.20 |
| 1,2,3-Trichlorobenzene      | ¢                                         |    | ND      |           | 0.20 |

|                      | i i i i i | Percent  | Control |
|----------------------|-----------|----------|---------|
| Surrogate            |           | Recovery | Limits  |
| Dibromofluoromethane |           | 114      | 63-130  |
| Toluene, d8          |           | 97       | 78-113  |
| 4-Bromofluorobenzene | н<br>     | 101      | 77-109  |

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### HALOGENATED VOLATILES by EPA 8260B Page 1 of 2

| Date Extracted:<br>Date Analyzed: |              | 4-29-03<br>4 <b>-</b> 29-03 |
|-----------------------------------|--------------|-----------------------------|
| Matrix:<br>Units:                 | < " =<br>3 # | Water<br>ug/L (ppb)         |
| Lab ID:                           |              | 04-183-03                   |

| Lab ID:    |   | 04-183-03 |
|------------|---|-----------|
| Client ID: | 2 | MW-3      |

|   | Compound                               |                                           |         |                 |        |
|---|----------------------------------------|-------------------------------------------|---------|-----------------|--------|
|   | Compound<br>Distribution of the second |                                           | Results | Flags           | PQL    |
|   | Dichlorodifluoromethane                |                                           | ND      |                 | 0.20   |
|   | Chloromethane                          | 100                                       | ND      |                 | 0.20   |
|   | Vinyl Chloride                         |                                           | ND      | 1 . J.          | 0.20   |
|   | Bromomethane                           | 1. E. | ND      |                 | 0.20   |
|   | Chloroethane                           |                                           | ND      |                 | 0.20   |
|   | Trichlorofluoromethane                 | 1 j. se                                   | 0.33    |                 | 0.20   |
| c | 1,1-Dichloroethene                     |                                           | ND      | 9               | 0.20   |
|   | lodomethane                            |                                           | ND -    |                 | 1.0    |
|   | Methylene Chloride                     |                                           | / ND    |                 | 1.0    |
|   | (trans) 1,2-Dichloroethene             | · · · · · · · · · · · · · · · · · · ·     | ND      | *x              | 0.20 - |
|   | 1,1-Dichloroethane                     | · · · · · ·                               | ND      |                 | 0.20   |
|   | 2,2-Dichloropropane                    | in a line.                                | ND      |                 | 0.20   |
|   | (cis) 1,2-Dichloroethene               | 2                                         | 0.42    |                 | 0.20   |
|   | Bromochloromethane                     | 0                                         | ND      |                 | 0.20   |
|   | Chloroform                             | 1 40 C                                    | 0.61    |                 | 0.20   |
|   | 1,1,1-Trichloroethane                  | 8 E H - M                                 | 0.40    |                 | 0.20   |
|   | Carbon Tetrachloride                   | R 50                                      | ND      | 1 <sup>22</sup> | 0.20   |
|   | 1,1-Dichloropropene                    |                                           | ND      |                 | 0.20   |
|   | 1,2-Dichloroethane                     |                                           | ND      |                 | 0.20   |
|   | Trichloroethene                        | r. **                                     | 2.2     |                 | 0.20   |
|   | 1,2-Dichloropropane                    | × 1.9                                     | ND vi   |                 | 0.20   |
|   | Dibromomethane                         |                                           | ND      | ~               | 0.20   |
|   | Bromodichloromethane                   |                                           | ND      |                 | 0.20   |
|   | 2-Chloroethyl Vinyl Ether              |                                           | ND      |                 | 1.0    |
|   | (cis) 1,3-Dichloropropene              |                                           | ND      |                 | 0.20   |
|   | (trans) 1,3-Dichloropropene            |                                           | ND      | x               |        |
|   |                                        |                                           |         |                 | 0.20   |

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### HALOGENATED VOLATILES by EPA 8260B Page 2 of 2

| Lab ID:<br>Client ID: |           | 04-183-03<br><b>MW-3</b> |          |        | ् ः<br>2 | н<br>В |
|-----------------------|-----------|--------------------------|----------|--------|----------|--------|
| Compound              |           |                          | Re       | esults | Flags    | PQL    |
| 1,1,2-Trichloroetha   | ne        |                          |          | ND     |          | 0.20   |
| Tetrachloroethene     |           |                          | 3        | 3100   |          | 200    |
| 1,3-Dichloropropar    | e         |                          |          | ND     | ·        | 0.20   |
| Dibromochlorometl     |           | 1.00                     |          | ND     |          | 0.20   |
| 1,2-Dibromoethane     |           |                          |          | ND     | 0        | 0.20   |
| Chlorobenzene         |           |                          |          | ND     |          | 0.20   |
| 1,1,1,2-Tetrachloro   | ethane    |                          |          | ND     |          | 0.20   |
| Bromoform             |           |                          |          | ND     |          | 1.0    |
| Bromobenzene          | -         | <i>*</i> *               |          | ND     |          | 0.20   |
| 1,1,2,2-Tetrachloro   | ethane    |                          |          | ND     | 8        | 0.20   |
| 1,2,3-Trichloroprop   |           |                          | 28       | ND     | × , **;  | 0.20   |
| 2-Chlorotoluene       |           |                          |          | ND     |          | 0.20   |
| 4-Chlorotoluene       | 28 ° "    |                          |          | ND     |          | 0.20   |
| 1,3-Dichlorobenzer    | ne        |                          |          | ND     |          | 0.20   |
| 1,4-Dichlorobenzer    |           |                          | <u>a</u> | ND     | w 24     | 0.20   |
| 1,2-Dichlorobenzer    | ne        | e e                      |          | ND     |          | 0.20   |
| 1,2-Dibromo-3-chlo    | ropropane | 8 S                      |          | ND     |          | 1.0    |
| 1,2,4-Trichlorobenz   |           |                          |          | ND     |          | 0.20   |
| Hexachlorobutadie     |           |                          |          | ND     | R        | 0.20   |
| 1,2,3-Trichlorobenz   | ene       | ×                        |          | ND     |          | 0.20   |
|                       | · · ·     |                          | 2.8      |        | a v "    |        |
|                       |           |                          |          |        |          | a a    |

|                      | Percent  | Control |
|----------------------|----------|---------|
| Surrogate            | Recovery | Limits  |
| Dibromofluoromethane | 114      | 63-130  |
| Toluene, d8          | 100      | 78-113  |
| 4-Bromofluorobenzene | 105      | 77-109  |

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#### HALOGENATED VOLATILES by EPA 8260B METHOD BLANK QUALITY CONTROL Page 1 of 2

Date Extracted: Date Analyzed: 4-29-03 4-29-03

Matrix: Units:

Water ug/L (ppb)

Lab ID:

MB0429W1

| Compound                    | Results | Flags                                    | PQL  |
|-----------------------------|---------|------------------------------------------|------|
| Dichlorodifluoromethane     | ND      | Ū                                        | 0.20 |
| Chloromethane               | ND      |                                          | 0.20 |
| Vinyl Chloride              | ND      | 1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1 | 0.20 |
| Bromomethane                | ND      |                                          | 0.20 |
| Chloroethane                | ND      | - 8 - <sup>6</sup>                       | 0.20 |
| Trichlorofluoromethane      | ND      |                                          | 0.20 |
| 1,1-Dichloroethene          | ND      |                                          | 0.20 |
| lodomethane                 | ND      |                                          | 1.0  |
| Methylene Chloride          | ND -    | Y 😒                                      | 1.0  |
| (trans) 1,2-Dichloroethene  | ND      | ್ ಕೆ ಕಲ್ಪೆ ಇ                             | 0.20 |
| 1,1-Dichloroethane          | ND      |                                          | 0.20 |
| 2,2-Dichloropropane         | ND      |                                          | 0.20 |
| (cis) 1,2-Dichloroethene    | ND -    |                                          | 0.20 |
| Bromochloromethane          | ND      | 8180111 A <sub>22</sub>                  | 0.20 |
| Chloroform                  | ND      |                                          | 0.20 |
| 1,1,1-Trichloroethane       | ND      |                                          | 0.20 |
| Carbon Tetrachloride        | ND      |                                          | 0.20 |
| 1,1-Dichloropropene         | ND      |                                          | 0.20 |
| 1,2-Dichloroethane          | ND      | 1 N N                                    | 0.20 |
| Trichloroethene             | ND      | 14                                       | 0.20 |
| 1,2-Dichloropropane         | ND      |                                          | 0.20 |
| Dibromomethane              | ND      |                                          | 0.20 |
| Bromodichloromethane        | ND      |                                          | 0.20 |
| 2-Chloroethyl Vinyl Ether   | ND      |                                          | 1.0  |
| (cis) 1,3-Dichloropropene   | ND      |                                          | 0.20 |
| (trans) 1,3-Dichloropropene | ND      |                                          | 0.20 |
|                             |         |                                          |      |

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#### HALOGENATED VOLATILES by EPA 8260B METHOD BLANK QUALITY CONTROL Page 2 of 2

Lab ID:

MB0429W1

| Compound                    | <sup>о</sup> Б | Results | E    | lags | PQL    | 2 |
|-----------------------------|----------------|---------|------|------|--------|---|
| 1,1,2-Trichloroethane       |                | ND      | •    | ugu  | 0.20   |   |
| Tetrachloroethene           |                | ND      |      |      | 0.20   |   |
| 1,3-Dichloropropane         |                | ND      |      |      | 0.20   |   |
| Dibromochloromethane        |                | ND      |      |      | 0.20   |   |
| 1,2-Dibromoethane           |                | ND      |      |      | 0.20   |   |
| Chlorobenzene               |                | ND      |      |      | 0.20   |   |
| 1,1,1,2-Tetrachloroethane   |                | ND      |      |      | 0.20   |   |
| Bromoform                   |                | ND      |      |      | - 1.0  |   |
| Bromobenzene                |                | ND      | , 28 |      | 0.20   |   |
| 1,1,2,2-Tetrachloroethane   |                | ND -    |      | 1    |        |   |
| 1,2,3-Trichloropropane      |                | ND      |      | 2    | 0.20   |   |
| 2-Chlorotoluene             | . × .          | ND      |      |      | 0.20   |   |
| 4-Chlorotoluene             |                |         |      |      | 0.20   |   |
| 1,3-Dichlorobenzene         |                | ND      |      |      | 0.20   |   |
| 1,4-Dichlorobenzene         |                | ND      |      |      | 0.20   | ÷ |
| 1,2-Dichlorobenzene         |                | ND      |      |      | 0.20   |   |
| 1,2-Dibromo-3-chloropropane |                | ND      |      |      | 0.20 = |   |
| 1,2,4-Trichlorobenzene      |                | ND      |      |      | 1.0    |   |
| Hexachlorobutadiene         |                | ND      |      |      | 0.20   |   |
|                             | 11             | ND 🗠    |      |      | 0.20   |   |
| 1,2,3-Trichlorobenzene      |                | ND      |      |      | 0.20   |   |
|                             |                |         |      |      |        |   |

| Surrogate<br>Dibromofluoromethane<br>Toluene, d8<br>4-Bromofluorobenzene | Percent<br>Recovery<br>109<br>97<br>103 | ņ | Control<br>Limits<br>63-130<br>78-113<br>-77-109 |
|--------------------------------------------------------------------------|-----------------------------------------|---|--------------------------------------------------|
|                                                                          | 100                                     |   | 11-109                                           |

OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

## HALOGENATED VOLATILES by EPA 8260B MS/MSD QUALITY CONTROL

| Date Extracted: | 4-29-03 |
|-----------------|---------|
| Date Analyzed:  | 4-29-03 |

Matrix: Units:

Lab ID:

04-191-18

Water

ug/L (ppb)

| Compound           | a<br>a | Sample<br>Amount | Spike<br>Amount | MS   | Percent<br>Recovery | MSD   | Percent<br>Recovery | Recovery<br>Limits | Flags |
|--------------------|--------|------------------|-----------------|------|---------------------|-------|---------------------|--------------------|-------|
| i di               |        |                  |                 |      | · • • •             |       |                     |                    |       |
| 1,1-Dichloroethene | 21     | ND               | 10.0            | 10.4 | 104                 | /10.4 | 104                 | 69-113             |       |
| Benzene            | 1      | ND               | 10.0            | 10.6 | 106                 | 11.5  | 115                 | 71-128             |       |
| Trichloroethene    |        | ND               | 10.0            | 9.74 | 97                  | 10.0  | 100                 | 82-122             |       |
| Toluene            |        | ND               | 10.0            | 9.76 | 98                  | 10.2  | 102                 | 54-118             |       |
| Chlorobenzene      |        | ND               | 10.0            | 8.97 | 90                  | 9.40  | 94                  | 85-103             |       |

|                    | 8   | ×2   | RPD   |   |      |
|--------------------|-----|------|-------|---|------|
|                    |     | RPD  | Limit | F | lags |
|                    |     | 72   |       |   |      |
| 1,1-Dichloroethene |     | 0.68 | 15    |   |      |
| Benzene            |     | 8.2  | 9.6   |   |      |
| Trichloroethene    | 231 | 2.7  | 12    |   |      |
| Toluene            |     | 4.1  | 15    |   |      |
| Chlorobenzene      |     | 4.6  | 5.8   |   |      |

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#### **Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

D - Data from 1:\_\_\_\_ dilution.

E - The value reported exceeds the quantitation range, and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

G - Insufficient sample quantity for duplicate analysis.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeniety. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

O - Hydrocarbons outside the defined gasoline range are present in the sample.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD is outside control limits due to sample inhomogeniety.

X - Sample extract treated with a silica gel cleanup procedure.

Y - Sample extract treated with a silica gel/acid cleanup procedure.

Ζ-

ND - Not Detected at PQL

MRL - Method Reporting Limit

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference

OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

| OnSite                                                                                                        |                                                                            | Chain of                                                                                                                  | Custody                                                                                                                            | Page of                  |
|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Environmental Inc.<br>14648 NE 95th Street • Redmond, WA 98052<br>Phone: (425) 883-3881 • Fax: (425) 885-4603 | Turnaround Request<br>(In working days)                                    | Laboratory Number                                                                                                         |                                                                                                                                    | rage or                  |
| Company:                                                                                                      | (Check One)                                                                |                                                                                                                           | Requested Analysis                                                                                                                 |                          |
| Project Name: # J Hand Londry<br>(603-001<br>Project Manager:<br>JER Kasper<br>Sampled by:<br>Sampled by:     | □ Same Day □ 1 Day<br>□ 2 Day □ 3 Day<br>□ -Stăndard (7 working days)<br>□ | NWTPH-HCID<br>NWTPH-Gx/BTEX<br>NWTPH-Dx<br>Volatiles by 8260B<br>Halogenated Volatiles by 8260B<br>Semivolatiles by 8270C | PAHs by 8270C<br>PCB's by 8082<br>Pesticides by 8081<br>Herbicides by 8151A<br>Total RCRA Metals (8)<br>FCLP Metals<br>FCLP Metals | 2                        |
| Law III Sample Identification St                                                                              |                                                                            | NWTF<br>NWTF<br>NWTF<br>Haloge<br>Semiw                                                                                   | PAHs by 8270<br>PCB's by 808<br>Pesticides by<br>Herbicides by<br>Total RCRA M<br>TOLP Metals<br>HEM by 1664                       | KPH<br>EPH<br>% Moisture |
| 2 MW-Z<br>3 MW-3                                                                                              | 115 W 3<br>1155 W 3<br>1155 V<br>1300 V<br>50<br>4                         |                                                                                                                           |                                                                                                                                    |                          |
| Signature       Relinquished by       Received by       Relinquished by                                       | Company<br>Fasalon<br>OC                                                   | Date         Time           4-7.5-03         11015**           4125/03         4.15                                       | Comments/Special Instructions:                                                                                                     |                          |
| Received by Relinquished by                                                                                   | 2)<br>                                                                     |                                                                                                                           | _                                                                                                                                  | -                        |
| Received by                                                                                                   |                                                                            |                                                                                                                           | _                                                                                                                                  | λ.                       |
| Reviewed by/Date                                                                                              | Reviewed by/Date                                                           | x                                                                                                                         | Chromatograms with final rep                                                                                                       | ort []                   |

ISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy

## **APPENDIX C**

## WASTE DISPOSAL DOCUMENTATION

Subsurface Investigation and Soil Vapor Extraction Feasibility Pilot Test Former City Hand Laundry 1002 4th Street Bremerton, Washington

Farallon PN: 603-001

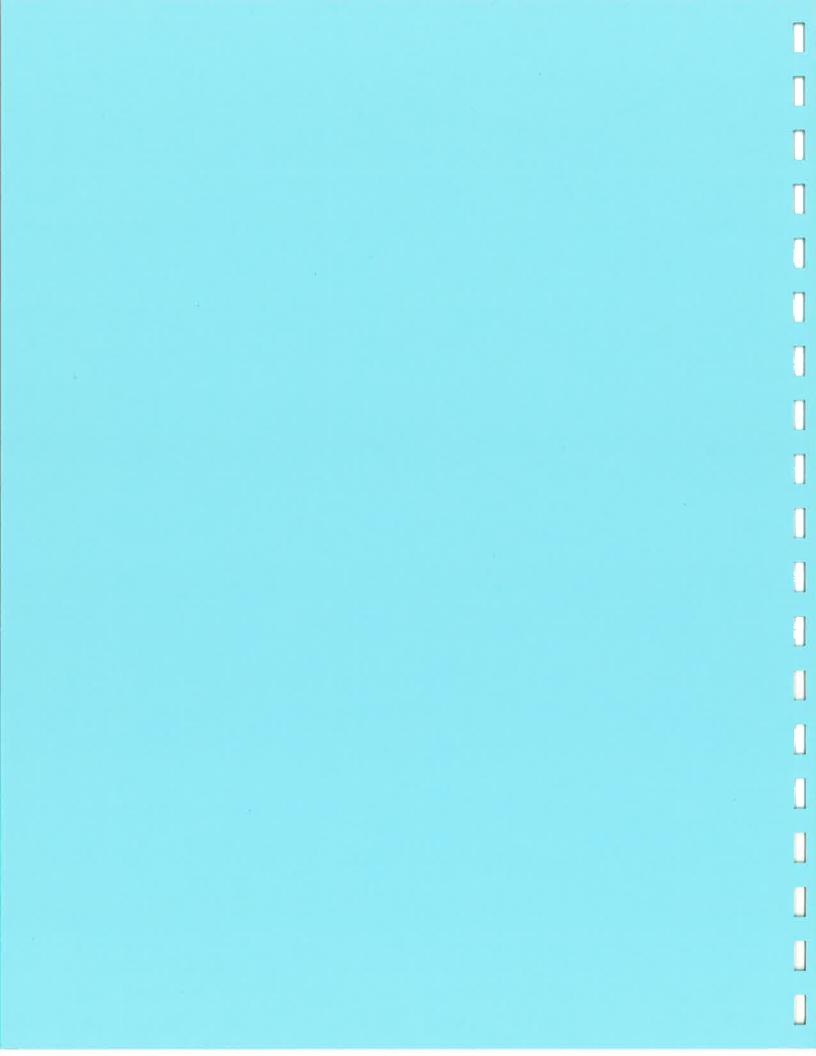
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| 5. 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| 4879 SPRIN<br>CINCINNATI                                                                                                                                                                                                                                                                                                                                                                                                              | G GROVE AVE<br>OH 45232                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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GENERATOR</li> <li>proper shippir</li> <li>according to a</li> <li>If I am a lar</li> <li>economically</li> <li>future threat</li> <li>the best was</li> <li>Printed/Ty</li> </ul>                                                                                                                                                      | 64 TERM<br>Identified and the set of the set o                                                                                                                                                                                                                                                                                                   | <b>ERACHLOROETH</b><br>J.O. # NB2<br>dditional Information<br><b>REC:</b> 1-800-4<br>declare that the contents<br>cked, marked, and label-<br>tional government regula<br>y that I have a program<br>selected the practicable<br>vironment; OR, if I am<br>available to me and that<br>IA = 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 332868<br>mwear Appro<br>24-9300. 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| <ul> <li>11a. CB114</li> <li>15. Special Ha</li> <li>EMERGENCY</li> <li>SHIPPER.</li> <li>16. 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| <ul> <li>11a. CB114</li> <li>15. Special Ha<br/>EMERGENCY<br/>SHIPPER.</li> <li>16. GENERATOR<br/>proper shippin<br/>according to a<br/>if I am a lar<br/>economically<br/>future threat<br/>the best was</li> <li>Printed/Ty<br/>SC</li> <li>T7. Transport<br/>Printed/Ty<br/>18. Transport</li> <li>Printed/Ty<br/>18. Transport</li> <li>Printed/Ty<br/>19. Discrepant</li> <li>T9. Discrepant</li> <li>T20. Facility O</li> </ul> | 64 TERM<br>du<br>du<br>du<br>du<br>contract: CHEMTI<br>contract: CHEMTI<br>contract: CHEMTI<br>contract: CHEMTI<br>contract: CHEMTI<br>contractions and A<br>contract: CHEMTI<br>contractions and an<br>contraction contraction of the contraction<br>contraction of the contraction of the contraction<br>contraction of th                                                                                                                                                         | <b>ERACHLOROETH</b><br>J.O. # NB2<br>dditional Information<br><b>REC:</b> 1-800-4<br>Example 1 - 800-4<br>Example 2 - 800-4 | as als<br>as of this consignment a<br>ed, and are in all respe-<br>ations.<br>min place to reduce<br>the method of treatme<br>a small quantify gen<br>at I can afford.<br>Signa<br>als<br>Signa<br>hazardous materia | PRIATE<br>CALLER M<br>CALLER M<br>Caller M<br>ects in proper<br>the volume (a<br>erator, 1 have<br>ture Caller<br>ature<br>ature                                                          | PROTEC<br>AUST II<br>Contained the<br>condition for<br>to footily of<br>to footily of<br>to footily of<br>to footily of<br>the footility of the footility of the footility of the footility of<br>the footility of the footility | TIVE<br>DENTI<br>cribed a<br>transport<br>of waste<br><u>urrently</u><br>od faith | GEAR WHEN<br>FT VOPAK<br>by highway<br>generated to the<br>available to me w<br>effort to minimize<br>UCs action<br>with the second<br>except at noted | degree I<br>hich mir<br>my was  | DLING.<br>AS<br>have determined to<br>meas the present<br>egeneration and se<br>Month Day<br>bisizial<br>Month Day<br>bisizial<br>Month Day |

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| UNIFORM HAZARDOUS<br>WASTE MANIFEST<br>(Continuation Sheet)                        | Of Capatolor's LIC EPA ID No.                                                                                        | Manifest Doc                                          | ument No.<br>7   | 2 07                                     | areas is<br>law,                                           |                       | ired by Federal                 |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|------------------|------------------------------------------|------------------------------------------------------------|-----------------------|---------------------------------|
| 23. Generator's Name<br>City Hand L                                                | wAD980978274<br>aundry                                                                                               |                                                       |                  |                                          | Aanifest Doo<br>Generator's                                |                       |                                 |
| 24 Transporter <u>S</u> Company Nar<br>Dae Thucking<br>26. Transporter Company Nar | COMPANY FUL OHD                                                                                                      | . US EPA ID Num<br>. US EPA ID Num<br>. US EPA ID Num | ber<br>25<br>ber | O. Transp<br>P. State                    | Fransporter<br>porter's Pho<br>Fransporter<br>porter's Pho | ne <u>330</u><br>s ID | 856-8938<br>- <i>844-984</i> 4/ |
| 28. US DOT Description (Including                                                  | Proper Shipping Name, Hazard Class,                                                                                  | and ID Number)                                        | 29. Cont<br>No.  | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | 30.<br>Total<br>Quantity                                   | 31.<br>Unit<br>Wt/Vol | R.<br>Waste No.                 |
| a.                                                                                 |                                                                                                                      | •                                                     | 140,             | Туре                                     | Quantity                                                   |                       |                                 |
| b.                                                                                 |                                                                                                                      |                                                       |                  |                                          |                                                            |                       |                                 |
| C.                                                                                 |                                                                                                                      |                                                       |                  |                                          |                                                            |                       |                                 |
| d.                                                                                 |                                                                                                                      | ж.)                                                   | )<br>2           |                                          |                                                            |                       |                                 |
| e.                                                                                 |                                                                                                                      |                                                       |                  | 12                                       |                                                            |                       |                                 |
| f.                                                                                 |                                                                                                                      |                                                       |                  |                                          |                                                            |                       |                                 |
| g.                                                                                 |                                                                                                                      |                                                       |                  |                                          |                                                            |                       |                                 |
| h                                                                                  | ана на селото на село<br>П |                                                       |                  |                                          |                                                            |                       |                                 |
| 1.                                                                                 |                                                                                                                      | 15                                                    | -                |                                          |                                                            |                       |                                 |
| S. Additional Descriptions for Mat                                                 | erials Listed Above                                                                                                  |                                                       |                  | T. Hand                                  | ling Codes                                                 | for Waste             | s Listed Above                  |
| 32. Special Handling Instructions                                                  | and Additional Information                                                                                           | e<br>H                                                |                  |                                          |                                                            |                       |                                 |
| Rrinted/Typed Name                                                                 |                                                                                                                      | Signature //                                          | 482              |                                          | 1/                                                         |                       | Date<br>Month Day Ye            |
| 34. Transporter Acknowle<br>Printed/Typed Name                                     | edgement of Receipt of Materials                                                                                     | Signature                                             | vE               | are                                      | y -                                                        |                       | Date<br>Month Day Ye            |
| F 35. Discrepancy Indication Spac                                                  |                                                                                                                      |                                                       |                  |                                          | -                                                          |                       |                                 |

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| UNIFORM HAZARDOUS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1. Generator's US EPA ID No. Manife                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2. Page 1                                                             | Informatic                                                                                                                                                                                               | on in the shaded ar                                                  |
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| 3. Generator's Name and Mailing Address<br>FARAULON CONSULTING LATE<br>1002 4TH ST.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| BREMERTCH, MA 90337<br>4. Generator's Phone ( 425 ) 427-(                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 061 ENERGENCI CONTACT: HON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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State Ge                                                           | nerator's ID                                                                                                                                                                                             |                                                                      |
| 5. Transporter 1 Company Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6. 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State Tra                                                          | insporter's I                                                                                                                                                                                            | D Y Depart                                                           |
| VOPAK USA INC.<br>7. Transporter 2 Company Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| SLT EXPRESS; INC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8. 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State Tra<br>F. Transpor                                           |                                                                                                                                                                                                          | 800-627-304                                                          |
| 9. Designated Facility Name and Site Addr<br>SPRING GROVE RESOURCES REM<br>4879 SPRING GROVE AVE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ess 10. 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State Fac                                                          | cility's ID                                                                                                                                                                                              |                                                                      |
| CINCINNATI, OH 45232                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| 11 US DOT Description (Including Proper S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | hipping Name, Hazard Class and ID Number)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12. 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| A. RQ, HAZARDOUS WASTE,<br>X (TETRACHLOROETHYLENE)<br>9, NA3082, PG III, (R<br>(ERG 171)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| 2. Burger and a second se                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                       |                                                                                                                                                                                                          |                                                                      |
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| A second se                                                                                                                                                                                                                                                       | NOTE: THE REPORT OF THE TRANSPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5 DC (983)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - N., 4 -                                                             | 102.02                                                                                                                                                                                                   | in reason                                                            |
| la. 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| La. CH11464 TERTR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ed Above seeded one easies interneed of an<br>ACHLORORTHYLENK CONTAMINATED W<br>HIT O BORD of TELES<br>DOOR ON THE SEEDER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| <ol> <li>CHI146. TERTR.</li> <li>Special Handling Instructions and Addit<br/>MERGENCY CONTACT: CHEMTRES<br/>HIPPER.</li> <li>GENERATOR'S CERTIFICATION: I hereby decla<br/>proper shipping name and are classified, packed<br/>according to applicable international and national<br/>if I am a large quantity generator, I certify tha<br/>economically practicable and that I have sele-<br/>future threat to human health and the environ</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ed Above<br>ACHLOROSTRYLENE CONTAMINATED W<br>ional Information WEAR APPROPRIATE PRO-<br>C: 1-800-424-9300. 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| <ul> <li>1a. CH11464 TERTR.</li> <li>5. Special Handling Instructions and Addit<br/>MERGENCY CONTACT: CHEMTREM<br/>FILTPPER.</li> <li>6. GENERATOR'S CERTIFICATION: I hereby decla<br/>proper shipping name and are classified, packed,<br/>according to applicable international and national<br/>if I am a large quantify generator, I certify tha<br/>economically practicable and that I have select<br/>future threat to human health and the environ<br/>the best waste management method that is avail<br/>Printed/Typed Name</li> <li>7. 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## S RECYCLING/TSD HANDLING AGREEMENT



WHEREAS, Generator produces spent chemicals which may be considered to be "hazardous" or "toxic" within the meaning of applicable federal and state laws/("Spent Chemicals") and which therefore must be transported, stored, disposed of, recycled, treated or re-used ("Handled") in accordance with applicable laws pertaining to hazardous or toxic chemicals;

ance with all applicable laws pertaining to such activities;

WHEREAS, the parties desire to enter into an arrangement for the Handling of Spent Chemicals, all on the terms and conditions hereinafter set forth;

**NOW, THEREFORE,** in consideration of the covenants and agreements contained herein, the undersigned agree to the following terms and conditions of this Recycling/TSD Handling Agreement as well as to the Standard Terms and Conditions Governing the Handling of Spent Chemicals ("Standard Terms and Conditions"), which are attached to the Generator copy of this Agreement and are incorporated herein by reference. All capitalized terms not otherwise defined herein shall have the meanings set forth in the Standard Terms and Conditions.

1. SPENT CHEMICALS SHIPMENT. The completed Uniform Hazardous Waste Manifest or appropriate state manifest which is identified by the reference number appearing in a space below the signatures to this Agreement and which pertains to the Spent Chemicals Shipment Handled under this Agreement is hereby incorporated herein by reference. Such manifest describes certain Spent Chemicals which Generator hereby agrees to ship to Recycling/TSD Contractor and which Recycling/TSD Contractor agrees to Handle at the facility named in such manifest ("Designated Facility").

2. COLLECTION, TRANSPORTATION, STORAGE AND DELIVERY. All Spent Chemicals Shipments shall be transported to Recycling/TSD Contractor by Van Waters & Rogers Inc., a Washington Corporation ("VW&R"), or an entity designated by VW&R to provide transportation and temporary storage services.

3. PAYMENT. It is understood that VW&R shall pay Recycling/TSD Contractor for Handling the Spent Chemicals Shipment (or, where money is owed to Generator, VW&R shall pay Generator for the Spent Chemicals Shipment) according to the terms of a certain Master Spent Chemicals Handling Agreement between Recycling/TSD Contractor and VW&R. Recycling/TSD Contractor shall not look to Generator for payment for Handling the Spent Chemicals Shipment, except for certain extraordinary charges incurred in connection with Nonconforming Spent Chemicals as set forth in the Standard Terms and Conditions.

4. INDEMNIFIED PARTY. As used in the Standard Terms and Conditions, the term "Indemnified Party" shall mean either Recycling/TSD Contractor or Generator, depending upon which party claims indemnification under this Agreement.

5. GENERATOR INDEMNIFICATION. Generator shall defend, indemnify and hold harmless Recycling/TSD Contractor, its past, present and future officers, directors, employees, agents, insurers and successors (hereinafter in this Paragraph referred to collectively as "Recycling/TSD Contractor") from and against any and all Loss which Recycling/TSD Contractor may sustain or incur, be responsible for or pay out as a result of:

(a) Generator's breach of any representation, warranty, term or provision of this Agreement; or

(b) The negligence or intentional misconduct of Generator, its employees, agents, representatives or subcontractors in the performance of this Agreement, provided that such indemnification shall not apply to the extent such liabilities result from Recycling/TSD Contractor's negligence or intentional misconduct or from a breach of this Agreement by Recycling/TSD Contractor.

6. NAMES AND ADDRESSES OF PERSONS TO WHOM NOTICE IS TO BE GIVEN. The name of the person to whom notice is to be given on behalf of Generator appears on the Uniform Hazardous Waste Manifest in Item 16 or the appropriate state manifest. The name of the person to whom notice is to be given on behalf of Recycling/TSD Contractor appears on the Uniform Hazardous Waste Manifest in Item 20 or the appropriate state manifest. The addresses of the persons to whom notice is to be given appear on the Uniform Hazardous Waste Manifest under Item 3 (for Generator) and Item 9 (for Recycling/TSD Contractor) or the appropriate state manifest.

#### RECYCLING/TSD HANDLING AGREEMENT (GENERATOR AND RECYCLING/TSD CONTRACTOR)

The undersigned hereby agree that, upon execution of this Recycling/TSD Handling Agreement, there is a binding contract between them according to the above terms and conditions, as of the day and year appearing below.

| GENERATOR EPA ID# WAD980978274                 | RECYCLING/TSD CONTRACTOR:             |
|------------------------------------------------|---------------------------------------|
| FACILITY: Cleaks hand laundry                  | PRINT George L. Curtis Vice President |
| PRINT                                          | SIGNATURE: AT THE                     |
|                                                | SHIPMENT APPROVAL NUMBER              |
| STATE HAZARDOUS WASTE MANIFEST DOCUMENT NUMBER | CHE- 12113-Ci                         |

#### TRANSPORTATION/HANDLING AGREEMENT (GENERATOR AND VW&R)

WHEREAS, Generator has made arrangements with a Recycling/TSD Contractor to transport, store, treat, dispose of, recycle, or re-use (which terms are hereinafter referred to as to "Handle") certain spent chemicals which it has generated and which may be considered to be "hazardous" or "toxic" within the meaning of applicable federal and state laws ("Spent Chemicals");

WHEREAS, Van Waters & Rogers Inc. ("VW&R") is in a position to transport and otherwise assist in the Handling of such Spent Chemicals;

NOW, THEREFORE, in consideration of the covenants and agreements contained herein, the aforementioned parties agree to the following terms and conditions as well as to the Standard Terms and Conditions Governing the Handling of Spent Chemicals ("Standard Terms and Conditions"), which are attached to the Generator Copy of this Agreement and are incorporated herein by reference. All capitalized terms not otherwise defined herein shall have the meanings set forth in the Standard Terms and Conditions.

1. DELIVERY. Prior to the execution of this Agreement, Generator has selected the Designated Facility set forth in the Uniform Hazardous Waste Manifest or appropriate state manifest for the Handling of the Spent Chemicals Shipment, which manifest is identified by the reference number appearing above the signatures to this Agreement. Generator has also completed all necessary arrangements for the Handling of such Spent Chemicals Shipment, including the execution of a Recycling/TSD Handling Agreement. VW&R shall deliver the Spent Chemicals Shipment to such Designated Facility.

2. CHARGES. The amount to be paid by Generator to VW&R for the services to be rendered hereunder is set forth on VW&R's Standard Schedule of Posted Prices for the Approved Spent Chemicals Stream to which the Spent Chemicals Shipment belongs, subject to all terms, conditions, and credit provisions contained therein. VW&R shall pay Recycling/TSD Contractor for all services in connection with the Handling of the Spent Chemicals Shipment, except for certain extraordinary charges incurred in connection with all or any portion of a Nonconforming Spent Chemicals Shipment, which Generator has agreed to pay.

3. WORK ON GENERATOR'S PREMISES. Generator agrees to provide VW&R, its employees, agents, and subcontractors, a safe working environment for any work, in performing this Transportation/Handling Agreement which must be undertaken on premises owned or controlled by Generator, except for hazardous environmental work conditions resulting from spills or other accidents which VW&R has caused.

4. INDEMNIFICATION. As used in the Standard Terms and Conditions, the term "Indemnified Party" shall mean either VW&R or Generator, depending upon which party claims indemnification under this Agreement. Generator and VW&R shall each defend, indemnify, and hold harmless the other, its past, present and future officers, directors, employees, agents, insurers and successors (hereinafter in this Paragraph referred to collectively as "VW&R" or "Generator") from and against any and all Loss which VW&R or Generator may sustain or incur, be responsible for or pay out as a result of the other's breach of any representation, warranty, term, or provision of this Agreement.

5. VW&R INDEMNIFICATION. VW&R shall defend, indemnify and hold harmless Generator from and against any and all Loss which Generator may sustain or incur, be responsible for, or pay out as a result of:

(a) VW&R's breach of any representation, warranty, term or prevision of this Agreement;

(b) any action or failure to act in connection with a Spent Chemicals Shipment which occurs during the period of time when such Shipment is in the possession of VW&R or VW&R's agents, employees or subcontractors regardless of whether VW&R or such persons are at fault with respect to such Loss, except where:

(i) such Loss arises from the action or the failure to act of Generator or any of its agents or em-

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anc the (ii) a Nonconforming Spent Chemicals Shipment is being returned to Generator or disposed of in some alternate manner following the giving of a Rescission Notice, or

(iii) Generator is transporting the Spent Chemicals Shipment, either as a subcontractor to VW&R or otherwise;

(c) the negligence or intentional misconduct of VW&R, its employees, agents, representatives or subcontractors in-the performance of this Agreement, provided that such indemnification shall not apply to the extent such liabilities result from Recycling/TSD Contractor's negligence or intentional misconduct or from a breach of this Agreement by Recycling/TSD Contractor.

#### STANDARD TERMS AND CONDITIONS GOVERNING THE HANDLING OF SPENT CHEMICALS

These Standard Terms and Conditions are to be incorporated by reference into the Master Spent Chemicals Handling Agreement made between Van Waters & Rogers Inc., a Washington corporation ("VW&R") and Recycling/TSD Contractors, the Recycling/TSD Handling Agreement made between Generator and Recycling/TSD Contractor and the Transportation/Handling Agreement made between Generator and VW&R, all relating to the Handling of Spent Chemicals, and shall govern the Handling of such Spent Chemicals. When so incorporated, the particular agreement into which these Standard Terms and Conditions have been so incorporated shall hereinafter be referred to as the "Agreement." All capitalized terms not otherwise defined herein shall have the meanings set forth in the Agreement. Whenever the rights and obligations of a person not party to the Agreement are described herein, such description is intended for informational purposes only, in order to reflect the rights and obligations of such person under one or more other agreements which are related to the Agreement.

1. SPENT CHEMICALS STREAM INFORMATION. VW&R shall function as a conduit whereby Generator shall, from time to time, provide to Recycling/TSD Contractor samples, forms, and other information ("Spent Chemicals Information") pertaining to types, categories, or streams of Spent Chemicals ("Spent Chemicals Stream") which Recycling/TSD Contractor may use in (a) determining whether such Spent Chemicals can be Handled by Recycling/TSD Contractor, (b) preparing any laboratory analysis of such Spent Chemicals or a report to the Generator thereon (the "Lab Report"), and (c) establishing the price(s) to be charged therefor. Spent Chemicals Information shall be periodically updated by Generator to meet regulatory requirements and the reasonable needs of Recycling/TSD Contractor. All Spent Chemicals Streams which Recycling/TSD Contractor has agreed to Handle pursuant to this Agreement are hereinafter referred to as "Approved Spent Chemicals Streams." Generator, and not VW&R, shall be responsible for the accuracy and completeness of all Spent Chemicals Information. Recycling/TSD Contractor shall look solely to Generator, not to VW&R, and shall in no way hold VW&R responsible, should any Spent Chemicals Information provided by a Generator (and in no manner commingled, mixed, changed or in any way altered by VW&R) prove to be other than true, accurate, and complete.

TRANSPORTATION SERVICES: ACCEPTANCE AND DELIVERY. In 2. connection with each Spent Chemicals Shipment, VW&R shall execute with Generator a Transportation/Handling Agreement relating to such Shipment ("Transportation/Handling Agreement"). Whenever VW&R is obligated pursuant to a Transportation/Handling Agreement to transport a shipment of Spent Chemicals ("Spent Chemicals Shipment"), VW&R shall collect such Spent Chemicals Shipment from Generator, transport it to Recycling/TSD Contractor (subject to such intermediate storage at VW&R or other facilities as shall, in VW&R's sole judgment, be necessary or desirable), and deliver such Spent Chemicals Shipment to Recycling/TSD Contractor in the same condition as received from Generators, reasonable wear and tear to containers excepted. Likewise, Generator and Recycling/TSD Contractor shall execute a Recycling/TSD Handling Agreement relating to such Shipment ("Recycling/TSD Handling Agreement"). The two aforementioned agreements, in combination with a completed Uniform Hazardous Waste Manifest are hereinafter referred to as "Handling Documents". Spent Chemicals Shipments shall be delivered to Recycling/TSD Contractor accompanied by the appropriate counterpart copies of the Uniform Hazardous Waste Manifest and the executed Recycling/TSD Handling Agreement. VW&R or Recycling/TSD Contractor (at the option of Recycling/TSD Contractor) shall assign a unique identification number for each Approved Spent Chemicals Stream ("Approved Spent Chemicals Stream Number") which number shall be supplied to the other parties and shall be included with the USDOT description (Item 11) on each Uniform Hazardous Waste Manifest prepared in connection with each Spent Chemicals Shipment. VW&R shall have no obligation to accept delivery of any shipment of Spent Chemicals unless: (a) Generator executes all shipping manifests required by Recycling/TSD Contractor and federal and state authorities ("Uniform Hazardous Waste Manifests") and completed Handling Documents, (b) the Spent Chemicals Shipment has been properly prepared for shipment, including the affixation of required labels, and (c) there is no visual, apparent indication that any container is not suitable for shipment. VW&R shall not commingle, mix, change or in any way alter the composition of any Spent Chemicals to be sent to Recycling/TSD Contractor under this Agreement. VW&R's acceptance of delivery of any Spent Chemicalls Shipment shall not release or absolve Generator from fulfilling its obligations under this Paragraph and in no event shall Generator or Recy-cling/TSD Contractor hold VW&R responsible should any of Generator's obligations hereunder not be met (except to the extent that VW&R is itself responsible for Generator's failure to perform its obligations under this Agreement). Subject to any special provisions in the Agreement, VW&R may utilize the services of subcontractors to perform transportation and/or storage services hereunder.

3. TITLE TO SPENT CHEMICALS. Title, risk of loss, and all other incidents of ownership of Spent Chemicals Shipments shall be transferred from Generator and vested in Recycling/TSD Contractor at the point in time when the Spent Chemicals Shipment departs from the Generator's facility on VW&R's or VW&R's subcontractor's vehicle(s) and Generator has signed the Uniform Hazardous Waste Manifest, subject to revocation of acceptance and title reversion, as provided in Paragraph 5 herein. Any marketable or usable material Recycling/TSD Contractor may recover from the Spent Chemicals Shipment shall be the sole property of Recycling/TSD Contractor.

I. RECYCLING/TSD CONTRACTOR'S HANDLING OF SPENT CHEMI-CALS. Recycling/TSD Contractor shall Handle each Spent Chemicals Shipment at the Available Facility agreed to by Recycling/TSD Contractor and designate another facility or means for further Handling. Any reasonable incremental cost of such further Handling (over and above the original contract price) and any other reasonable costs incidental thereto, including, without limitation, additional transportation costs, shall be Recycling/TSD Contractor's sole obligation.

#### 5. NONCONFORMING SPENT CHEMICALS.

(a) Definition of Nonconformance. A Spent Chemicals Shipment shall be considered nonconforming ("Nonconforming"), for the purposes of this Agreement, if:

(i) Nonconformity with Spent Chemicals Information. The Spent Chemicals contained therein do not conform to the Spent Chemicals Information supplied by Generator with respect to an Approved Spent Chemicals Stream or to the Lab Report or the Spent Chemicals contain constituents or components not listed in the Spent Chemicals Information which increase the nature or extent of the hazard, risk or cost undertaken by Recycling/TSD Contractor; or

(ii) Manifest Information. The Uniform Hazardous Waste Manifest signed by the Generator does not conform to the Spent Chemicals Information, does not conform to all requirements of law, or does not otherwise contain complete and accurate information relating to such Spent Chemicals Shipment.

(iii) Containers. The containers for the Spent Chemicals Shipment are incompatible with the Spent Chemicals, are damaged, leaking, improperly closed or improperly prepared for shipment, pose an undue hazard to the health or safety of personnel or the facility in connection with the Handling or transportation of the Spent Chemicals, or do not conform to requirements of state, federal or other pertinent law.

(b) Notification of Nonconformance. At any point in the Handling process, but only for 30 days following Recycling/TSD Contractor's acceptance of a Spent Chemicals Shipment at its or its subsidiary's facility (the time of acceptance being the time of Recycling/TSD Contractor's execution at its or its subsidiary's facility of the Uniform Hazardous Waste Manifest relating to such Shipment), both VW&R and the Recycling/TSD Contractor shall have an independent right to determine when a Spent Chemicals Shipment is Nonconforming, each in the exercise of its sole discretion. Whenever it is determined that all or a portion of a Spent Chemicals Shipment is Nonconforming, the party which makes such determination shall immediately notify the other and VW&R shall thereupon immediately notify Generator. At the time of such notification and at any time thereafter until such Nonconformance has been cured, VW&R may, and at Recycling/TSD Contractor's request shall, by notice to Generator ("Rescission Notice"), rescind any prior acceptance by VW&R or Recycling/TSD Contractor of delivery of any Spent Chemicals Shipment.

(c) Reversion of Title to Nonconforming Spent Chemicals. Upon the giving of a Rescission Notice, title, risk of loss, and all other incidents of ownership shall revert to Generator as of the point in time such title, risk of loss, and other incidents of ownership originally vested in Recycling/TSD Contractor as if title had never transferred to Recycling/TSD Contractor in the first instance.

(d) Return or Alternate Disposal of Nonconforming Spent Chemicals. Following the giving of a Rescission Notice, VW&R or the Recycling/TSD Contractor (whichever has possession) shall properly store, prepare for lawful transportation, and return to Generator (through VW&R) such Nonconforming Spent Chemicals within a reasonable time, not to exceed ten (10) days after the giving of the Rescission Notice, unless within such time the parties agree to some alternate lawful manner of disposition. The parties' agreement to an alternative manner of disposition or acceptance of a Nonconforming Spent Chemicals Shipment shall not be deemed a waiver of the right of VW&R and/or the Recycling/TSD Contractor to reject any other Nonconforming Spent Chemicals Shipment. Generator shall accept possession of any rejected Nonconforming Spent Chemicals Shipment returned to Generator and shall sign all required shipping papers and the Uniform Hazardous Waste Manifest(s) which accompany the Nonconforming Spent Chemicals Shipment. If Generator refuses to Handle such Nonconforming Spent Chemicals Shipment, including without limitation shipment elsewhere for Handling, then VW&R or Recycling/TSD Contractor (whichever party has possession) shall thereupon be authorized to act as Generator's agent to take all steps, including execution of documents, deemed by VW&R in its sole judgment to be appropriate or necessary to Handle such Spent Chemicals Shipment. Generator shall pay Recycling/TSD Contractor and/or VW&R all of their respective reasonable expenses and charges associated with handling, loading, preparing, transporting, storing, caring for, sampling, analyzing, or otherwise Handling Nonconforming Spent Chemicals under this Agreement so long as VW&R notifies Generator of the Nonconformity.

6. BILLING AND PAYMENT. VW&R, Generator, and Recycling/TSD Con-

(d) All containers in the Spent Chemicals Shipment are marked, labeled, and are otherwise in conformance with governmental laws, regulations, and orders;

(e) Generator holds clear title to the Spent Chemicals Shipment;

(f) Generator is under no legal restraint or order which would prohibit transfer of title of the Spent Chemicals Shipment to Recycling/TSD Contractand

(g) Generator has filed or will file with the appropriate governmental agency any preliminary notification required under applicable law for shipment of the Spent Chemicals Shipment.

VW&R'S AND RECYCLING/TSD CONTRACTOR'S RESPECTIVE REP-RESENTATIONS AND WARRANTIES. The parties hereto make the following representations and warranties:

(a) Recycling/TSD Contractor hereby represents and warrants as lows:

(i) All information supplied by Recycling/TSD Contractor, its employees, agents, directors, officers, and representatives to VW&R concerning the Available Facilities, including all information set forth on the List

Available Facilities, any information furnished or to be furnished in nection with Recycling/TSD Contractor's obligations under the Agreement is (or, in the case of information furnished hereafter by Recycling/TSD Contractor, shall be) true, complete, and accurate, and there has been and shall be no material omission or misrepresentation in nunection therewith; and

(ii) Recycling/TSD Contractor has obtained all necessary permits and licenses required in connection with its performance under the Agreement.

(b) VW&R hereby represents and warrants that all information supied by VW&R, its employees, agents, directors, officers, and representatives Recycling/TSD Contractor in connection with VW&R's obligations under

the Agreement is (or, in the case of information furnished hereafter by VW&R, shall be) true, complete, and accurate, and there has been and shall : no material omission or misrepresentation in connection therewith.

INDEMNIFICATION PROVISIONS: DEFINITIONS. The following terms sed herein and in the Agreement have the meanings set forth below:

(a) "CERCLA" means the Federal Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601 et seq., and all regulations thereunder, both as amended from time to time.

(b) "RCRA" means the Resource Conservation and Recovery Act, 42 S.C. § 6901 <u>et seq</u>, and all regulations thereunder, both as amended from time to time.

(c) "Other Enactment" means any federal, state, or local statute, ordinance, order, rule, or regulation of any type other than CERCLA and CRA, including without limitation those relating to the Handling of Spent hemicals, the contamination of the environment, any removal of such contamination or remediation thereof, or endangerment of human health.

(d) "Loss" means any and all of the following, whether the result of ny action of any governmental agency or any third party: liabilities, penalties, prfeitures, suits, losses, damages, fines, expenses, debts, obligations, claims, including, without limitation, fines, liabilities, or losses arising out of CERCLA, RCRA, or any and all Other Enactments, costs (including costs of investigation, defense, settlement and attorneys' and other professional fees (hether or not litigation is instituted), costs and capital expenditures required or compliance with CERCLA, RCRA, or any and all Other Enactments, any sosses related to death, bodily injury, property damage or destruction, damage to the environment, losses which any Indemnified Party may sustain as a result of any investigation, removal, remediation, cleanup, or decontamination rising out of any contamination of or discharge or threatened discharge into he environment, whether liquidated or unliquidated, fixed or contingent, known or unknown, but in no event shall include damages for loss of use, income or profits.

(e) "Indemnified Party" and "Indemnified Parties" shall mean the party or parties defined as the "Indemnified Party" or "Indemnified Parties" in the Agreement and shall include the respective past, present, and future officers, directors, employees, agents, insurers, and successors of such party or parties.

10. RECYCLING/TSD CONTRACTOR INDEMNIFICATION. Recyling/TSD Contractor shall defend, indemnify, and hold harmless each and every Indemnified Party from and against any and all Loss which such Indemnified Party may sustain or incur, be responsible for or pay out (except to the extent that such Indemnified Party is itself at fault with respect to such Loss) as a result of:

 (a) Recycling/TSD Contractor's breach of any representation, warranty, term, or provision of the Agreement, or

(b) Recycling/TSD Contractor's or any other person's Handling of Spent Chemicals, containers, and residues once such Spent Chemicals have been accepted by Recycling/TSD Contractor at its facilities (as provided in Paragraph 5(b) of these Standard Terms and Conditions), regardless of whether Recycling/TSD Contractor is without fault with respect to such Loss. (c) The negligence or intentional misconduct of Recycling/TSD Con-

tractor, its employees, agents, representatives or subcontractors in the perform-

Spent Chemicals under the Agreement except as specifically provided to the contrary in the Agreement.

12. NOTICE AND COOPERATION. The following procedures shall apply to indemnification under the Agreement:

(a) In the event that any Indemnified Party shall have a claim made or threatened against it as to which the Indemnified Party believes it is entitled to indemnification under the Agreement, it shall promptly notify the party against whom indemnification is sought and VW&R. The notice shall specify the party from which indemnification is sought, and provide available material details of the claim, with copies of any relevant documents. Failure to notify the above party(ies) of any claim shall relieve such party of its obligation to indemnify any Loss related to that particular claim.

(b) Within ten (10) days after receipt of a notice asserting a right to indemnification, the party from which indemnification is sought shall notify all other Indemnified Parties whether it undertakes the defense and disposition of the claim or declines responsibility for the claim. A party which undertakes the defense and disposition of a claim may reserve its right to decline responsibility if facts subsequently come to its attention which indicate that it is not obligated to indemnify.

(c) A party which undertakes the defense and disposition of a claim shall have control of the defense and disposition, so along as such party's ability to perform its obligations under this Agreement relating to indemnification shall not suffer any material adverse change. The Indemnified Parties shall cooperate in the defense as reasonably requested by, and at the expense of, the undertaking party. The other Indemnified Parties may further participate in the defense at their own expense, but shall not have control of the defense.

(d) If a party declines responsibility for a tendered claim and the parties cannot resolve the dispute within thirty (30) days, the question of responsibility to indemnify shall be submitted to arbitration under Paragraph 19 of these Standard Terms and Conditions. Pending such arbitration, the Indemnified Party against which the claim was asserted shall act to protect the interests of the parties with respect to the claim, subject to reimbursement of all costs and expenses by any party which is thereafter determined to have responsibility for conducting such defense.

13. NONEXCLUSIVITY. The parties acknowledge that the arrangements contemplated under the Agreement are nonexclusive and that any Generator may, in its sole discretion, select persons and facilities other than Recycling/TSD Contractor to Handle Spent Chemicals, including but not limited to persons who are affiliates of VW&R, and that VW&R may utilize the services of persons and facilities other than Recycling/TSD Contractor to Handle Spent Chemicals, including but not limited.

14. ENTIRE AGREEMENT. The Agreement represents the entire understanding between the parties hereto relating to the matters addressed herein. The Agreement supersedes any and all prior agreements, whether written or oral, which may exist between the parties.

15. **AMENDMENT.** The Agreement may be amended from time to time only by an express instrument in writing signed by the parties.

16. SAVINGS CLAUSE. If any one or more of the provisions contained in the Agreement shall, for any reason, be held to be invalid, illegal, or unenforceable in any respect, such invalidity, illegality, or unenforceability shall not affect any other provisions of the Agreement and the Agreement shall be construed as if such invalid, illegal, or unenforceable provision had never been contained herein.

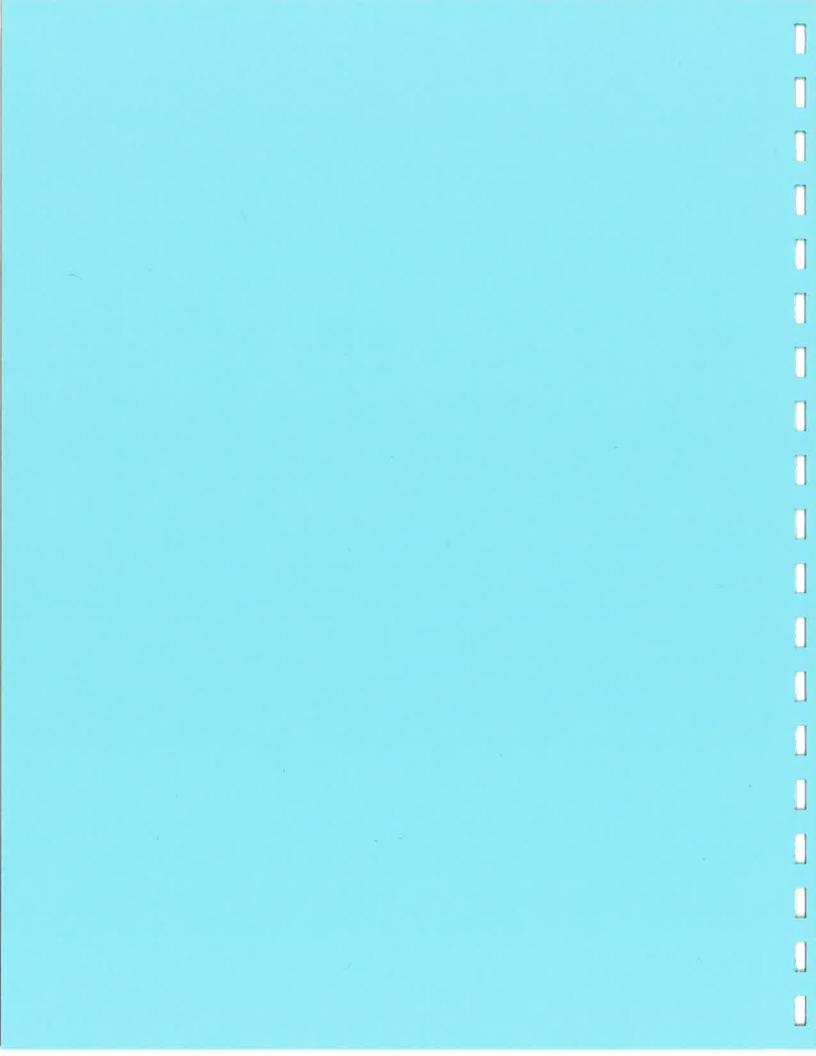
17. SCOPE AND SURVIVAL. The obligations of the parties to indemnify under the Agreement shall survive the expiration or termination of this Agreement.

18. EXCUSE OF PERFORMANCE. The performance of this Agreement, except for the payment of money for services already rendered, may be suspended by any party in the event performance is prevented by causes beyond the reasonable control of such party. Such causes shall include, but not be limited to, acts of God, acts of war, riot, fire, explosion, accident, flood or sabotage, governmental laws, regulations, requirements, orders, lock-outs, or strikes.

19. MANDATORY ARBITRATION. Any controversy or claim arising out of or relating to the Agreement or breach of the Agreement shall be settled by arbitration in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The award resulting from the arbitration shall be final and binding upon the parties and judgment on the award rendered may be entered in any court having jurisdiction. The place of arbitration shall be mutually agreed upon by the parties to the arbitration or, if the parties are unable to agree, St. Louis, Missouri.

20. ATTORNEYS' FEES AND EXPENSES. If any action or proceeding shall be commenced before any court or governmental agency to enforce the terms of the Agreement, or if any arbitration shall take place pursuant to Paragraph 19 of these Standard Terms and Conditions, then the prevailing party shall be entitled to recover from the other party the reasonable attorneys' fees, costs, and expenses incurred by such prevailing party in connection with such action, proceeding, or arbitration.

NOTICES Except as otherwise provided any notice to be given under



| se print c                                                                                                                                                          | or type. (Form designed for use on elite (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 12-pitch) typewriter.)                                                                                                                                                                                                                                              |                                                                                                                                                                                                                              |                                                                                             |                                                             | Form Approved           | , JND 140. 2                        |                                                                                                                                              |
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| Ų                                                                                                                                                                   | NIFORM HAZARDOUS<br>WASTE MANIFEST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1. Generator's US EP                                                                                                                                                                                                                                                | Doc                                                                                                                                                                                                                          | ifest<br>ument No.<br>088                                                                   | 2. P                                                        | isn                     |                                     | n the shaded areas<br>d by Federal law.                                                                                                      |
| 3. Gen                                                                                                                                                              | erator's Name and Mailing Address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | LAN LARD                                                                                                                                                                                                                                                            | Jamesburg                                                                                                                                                                                                                    | in mark                                                                                     | A. St                                                       | ate Manifest            | Documer                             | nt Number                                                                                                                                    |
| 1002                                                                                                                                                                | 24TH ST. 53<br>IRRTIN, NA 99337                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                     | . d                                                                                                                                                                                                                          |                                                                                             | B. St                                                       | ate Generate            | or's ID                             | and the second second                                                                                                                        |
| 4. Gen                                                                                                                                                              | nerator's Phone (425) 427-6<br>nsporter 1 Company Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 061 <u>EMERGE</u><br>6.                                                                                                                                                                                                                                             | US EPA ID Numb                                                                                                                                                                                                               |                                                                                             | C. St                                                       | ate Transpo             | rter's ID                           |                                                                                                                                              |
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|                                                                                                                                                                     | EXPRESS, INC.<br>ignated Facility Name and Site Addr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                     | USEPAID Numb                                                                                                                                                                                                                 |                                                                                             |                                                             | ate Facility's          |                                     | 10-521-5041                                                                                                                                  |
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|                                                                                                                                                                     | DOT Description (Including Proper S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                              | 12. Conta                                                                                   | ainers                                                      | 13.<br>Total            | 14.<br>Unit                         |                                                                                                                                              |
| HM<br>a.                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                              | ENO.                                                                                        | Туре                                                        | Quantity                | Wt/Vo                               | F002                                                                                                                                         |
| X                                                                                                                                                                   | (TETRACHLOROETHYLENE)<br>9, NA3077, PG III, (E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                              | 10 1                                                                                        |                                                             | 13.1                    | 00                                  |                                                                                                                                              |
| b.                                                                                                                                                                  | HAZARDOUS WASTE, SOLI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | owened we as the                                                                                                                                                                                                                                                    | ,<br>                                                                                                                                                                                                                        | 1.1-                                                                                        | MO                                                          | _1.7.12                 | UT.                                 | F002                                                                                                                                         |
| р.<br>Ж                                                                                                                                                             | (TETRACHLOROETHYLENE)<br>9. NA3077, PG 111, (E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                              | no l                                                                                        |                                                             | 10-                     | 0                                   |                                                                                                                                              |
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| 114.                                                                                                                                                                | litional Descriptions for Materials List<br>CN7401<br>CJJ1640                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ed Above<br>CHLOROETH/LENE<br>CHLOROETH/LENE                                                                                                                                                                                                                        | SOIL MEETS SI                                                                                                                                                                                                                | ANDARD                                                                                      |                                                             | enore - o<br>Ok unier A | ng sana<br>Polo dan<br>Bolo dan     |                                                                                                                                              |
| 11a.<br>11b.<br>15. Sp<br>EMERC<br>SHIPI<br>16. GEN<br>prop                                                                                                         | CN7401<br>CU1640<br>Decial Handling Instructions and Addi<br>GENCY CONTACT: CHEMIRE<br>PER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | tional Information WBA<br>C1 1-800-424-9                                                                                                                                                                                                                            | SOIL MEETS SI<br>CONT. SOIL                                                                                                                                                                                                  | PROTECT                                                                                     | IVE<br>NTI                                                  | GEAR WHI<br>T YOPAK     | IN HAN                              | DLING.                                                                                                                                       |
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| 6/04/           | 99<br>ator Name:                                                                                                                                                                                                                                                                                                                                         | City hand Laund printest Doc. No.: 01088                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                  |                                                                                                                                                                                                                                                                   |  |
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|                 | le Nuter:                                                                                                                                                                                                                                                                                                                                                | CUIGO State Manifest No:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                  |                                                                                                                                                                                                                                                                   |  |
| 2. If           | this waste in<br>h restriction<br>HOS, R<br>artify ALLUS<br>He, identify H<br>Lifornia List<br>See constitue<br>aracteristic a                                                                                                                                                                                                                           | non-vasbeater or wastewater? (See 40 GR 268.2) Check CNE: Nordestewater Wast<br>s subject to any California List restrictions enter the letter from below (either A<br>n that is applicable:<br>DS, Acid, Metals, Cyanides<br>27A hazardous waste codes that apply to this waste shipment, as defined by 40 GR 2<br>the corresponding subcategory, or check NDNE if the waste code has no subcategory.<br>treatment standards are listed on the following page. If FO39, multi-source lead<br>its must be listed and attached by the generator. If DO01-DO43 requires treatment of<br>and meet 268.48 standards, then the underlying hazardous constituent(s) present in<br>and attached.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 61. For<br>Spent<br>abe app<br>of the                                                                                                            | each waste<br>solvent and<br>lies                                                                                                                                                                                                                                 |  |
| REF<br>#        | 4. US EPA<br>HAZARDOUS<br>WASUE                                                                                                                                                                                                                                                                                                                          | AZAROLIS ENTER THE SUBCRIPTION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                  |                                                                                                                                                                                                                                                                   |  |
| #               | CCCE(S)                                                                                                                                                                                                                                                                                                                                                  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NONE                                                                                                                                             | ENIER LECTER<br>FROM HELOW                                                                                                                                                                                                                                        |  |
| 1               | F002                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                  | A                                                                                                                                                                                                                                                                 |  |
| 2               |                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8                                                                                                                                                | -                                                                                                                                                                                                                                                                 |  |
| 3               |                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                  |                                                                                                                                                                                                                                                                   |  |
| 4               |                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                  |                                                                                                                                                                                                                                                                   |  |
| HE2<br>If<br>TD | ardous Čonsti<br>no UHCs are p                                                                                                                                                                                                                                                                                                                           | for LOOI-LOA3 underlying hezarchus constituent(s), use the "FOS9/Underlying<br>tuent Rom" provided (CW-2004) and check here:<br>mesent in the waste upon its initial generation check here:<br>al USEPA waste code(s) and subcategorie(s), use the suplemental sheet provided (C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | WM-2005                                                                                                                                          | -B)                                                                                                                                                                                                                                                               |  |
| B.2             | rage the LDR<br>latory citatic<br>tions.<br>Section 3004(<br>or Hazardous I<br>Section 3004(<br>or Hazardous I<br>Section of the<br>immediately m<br>tained proper<br>prohibitions<br>waste. I an<br>of fine and in<br>RESURICIED WA<br>TRACED BY TH<br>"I certify un<br>I an aware th<br>and imprison<br>GCOD FAILH AN<br>"I certify un<br>I certify un | Debris: "This hazardous debris is subject to the alternative treatment standards of<br>SUE TREATED TO PERCONANCE SIGNDADS<br>der penalty of law that I have personally examined and am familiar with the treatment<br>treatment process used to support this certification and that, based upon my inquir<br>esponsible for obtaining this information, I believe that the treatment process has<br>by so as to comply with the performance levels specified in 40 CFR part 268 Subpart<br>set forth in 40 CFR 268.32 or RCFA Section 3004(d) without impermissible dilution of<br>aware that there are significant penalties for submitting a false certification, in<br>morisonment."<br>SUES FOR WHICH THE TREATMENT SUPNOARD IS EXPRESSED AS A SPECIFIED TECHNICGY (AND T<br>AT TECHNICGY)<br>der penalty of the law that the waste has been treated in accordance with the requir<br>at there are significant penalties for submitting a false certification, including                                                                                                                                                                                                                                                                                                                                                           | elow. I<br>teed of<br>boart D<br>40 CFR<br>at tech<br>y of the<br>been of<br>the p<br>cluding<br>internation<br>the post<br>the post<br>ant tech | where these<br>the 40 CFR<br>, 268.32, or RCFA<br>. Part 268.45."<br>mology and oper-<br>ose individuals<br>perated and main-<br>all applicable<br>withinted<br>the possibility<br>E FAS HEEN<br>s of 40 CFR 268.42.<br>ssibility of fine<br>mology and operation |  |
|                 | immediately r<br>treated by ir<br>conduction ir<br>unable to det<br>such constitu-<br>the possibili<br>DECHARACIENT<br>"I certify ur<br>remove the hr<br>further treat<br>false certiff<br>RESERVICIED W                                                                                                                                                 | espinsible for obtaining this information, I believe that the morestevater organic<br>concration in units operated in accordance with 40 CR Part 264 Subpart 0 or Part 2<br>in fuel substitution units operating in accordance with amplicable technical require<br>eact the movastevater organic constituents despite having used best good faith effi-<br>ents. I an aware that there are significant penalties for submitting a false certi-<br>try of fine and imprisonment."<br>250 WASIE REQUERES INFAMENT FOR UNDERVING HAZAFOOLS CONSIDIENTS<br>of a penalty of law that the waste has been treated in accordance with the requirem<br>wantbut characteristic. This decharacterized waste contains underlying heardous<br>ment to meet universal treatment standards. I an aware that there are significant<br>ication, including the possibility of fine and imprisonment."<br>ASIE SELECT TO A VARIANCE                                                                                                                                                                                                                                                                                                                                                                                                                      | e consti<br>265 Subj<br>ments, a<br>arts to<br>ficatio<br>ents of<br>constitution<br>penalt                                                      | ituents have been<br>part 0, or by<br>and I have been<br>analyze for<br>an including<br>40 CFR 268.40 to<br>ments that require<br>ies for submitting a                                                                                                            |  |
| D.<br>E.        | effective da<br>Ror Hazardous<br>RESURICIED W<br>"I have debe<br>all applicable<br>without furth<br>maintained a<br>I personally<br>the waste to<br>263 Supart<br>believe that<br>penalties for<br>WASIE IS NOI<br>This waste i<br>Eneby certify                                                                                                         | s abject to a national capacity variance, a treatability variance, or a case-by-ca<br>be of prohibition in column 6 above.<br>Debris: "This hazardous debris is subject to the alternative treatment standards of<br>ASTE CAN BE LAND DISPOSED WITHOUT FURHER TREAMMENT<br>minued that this waste meets all applicable treatment standards set forth in 40 CFF<br>le prohibition levels set forth in Section 268.32 or NCRA Section 3004(d), and then<br>her treatment. A copy of all applicable treatment standards and specified treatment<br>to the treatment, storage and disposal facility named above." "I certify under para<br>have examined and an familiar with the waste through analysis and testing or throu<br>support this certification that the waste complies with the treatment standards s<br>D and all applicable prohibitions set forth on 40 CFR 268.32 or NCRA section 3004(d)<br>the information I submitted is true, accurate and complete. I am aware that there<br>r submitting false certifications, including the possibility of a fine and imprison<br>CORRENTLY SUBJECT TO FRAT 268 RESULTIONS<br>is a newly identified waste that is not currently subject to any 40 CFR Part 268 res<br>that all unformation submitted in this and all associated documents is complete a<br>edge and information. A | of 40 CF<br>Part 2<br>refore,<br>it metho<br>alty of<br>gh know<br>recified<br>are si<br>ment."                                                  | R Part 268.45."<br>68 Subpart D, and<br>can be land disposed<br>ds is<br>law that<br>lace of<br>1 in 40 CFR Part<br>Ignificant<br>ns.                                                                                                                             |  |

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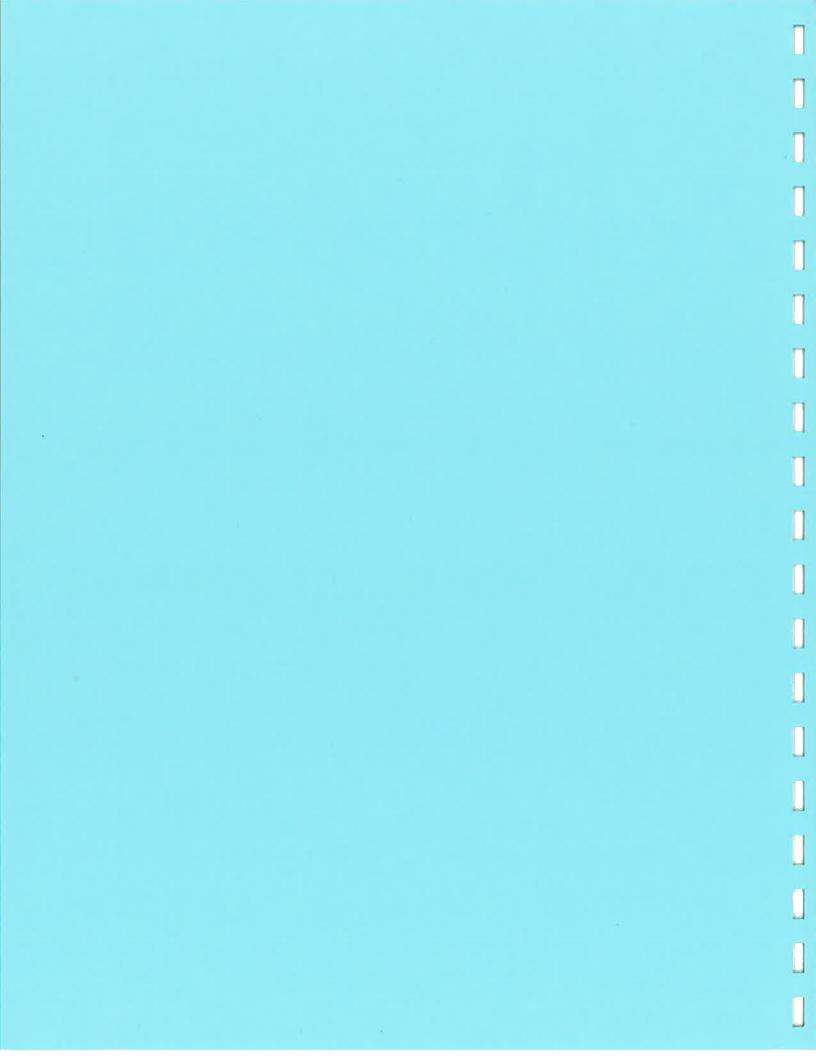
| LESC OF INY |                  |       |           |      |         |
|-------------|------------------|-------|-----------|------|---------|
| Signature   | . J. T. Millmand | Title | 1040 pler | Date | 5/11/0/ |

| 6/04                              | /99                                                                                                                                                                                                                                         | LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (PHASE II)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                  |                                                                                                                                         | -        |  |  |  |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|--|--|--|
| Gene                              | rator Name:                                                                                                                                                                                                                                 | City hang Launary Manifest Doc. No.: 01088                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                  |                                                                                                                                         |          |  |  |  |
|                                   | jle Number:                                                                                                                                                                                                                                 | _CN 740] 0 State Manifest No:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 9                                                                                                |                                                                                                                                         |          |  |  |  |
|                                   | this waste is<br>the restriction<br>Bots, PO<br>Entify ALLUSE<br>ode, identify t<br>alifomia List<br>pose constituen                                                                                                                        | non-wastewater or wastewater? (See 40 CFR 283.2) Check ONE: Nonvestewater Wast<br>subject to any California List restrictions enter the letter from below (either P<br>in that is applicable:<br>Bs, Acid, Metals, Cyanides<br>PA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 2<br>the corresponding subcategory, or check NONE if the waste code has no subcategory.<br>treatment standards are listed on the following page. If FO39, multi-source lead<br>its must be listed and attached by the generator. If DO31-DO43 requires treatment of<br>min meet 268.48 standards, then the underlying hazardous constituent(s) present in<br>and attached.                                                                                                                                                                                                                                                                                                                                                               | A, B.1, d<br>Sol. For<br>Spents<br>rate appl<br>of the                                           | each waste<br>solvent and<br>lies                                                                                                       |          |  |  |  |
| REF                               | 4. US EPA<br>HAZARDOUS<br>WASUE                                                                                                                                                                                                             | AZARCOUS ENIER THE SUBCRIEGORY DESCRIPTION.<br>WASHE IF NOT APPLICABLE, SIMPLY CHECK NONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                  |                                                                                                                                         |          |  |  |  |
| #                                 | CODE(S)                                                                                                                                                                                                                                     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NONE                                                                                             | ENIER LEFTER<br>FROM HELOW                                                                                                              |          |  |  |  |
| 1                                 | FOOL                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                  | D                                                                                                                                       |          |  |  |  |
| 2                                 |                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                  |                                                                                                                                         |          |  |  |  |
| 3                                 |                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                  |                                                                                                                                         |          |  |  |  |
| 旧近                                | no UHCs are p                                                                                                                                                                                                                               | or DOU-DOUS underlying hezandous constituent(s), use the "FO39/Underlying<br>band Rom" provided (CVM-2004) and check here:<br>resent in the waste upon its initial generation check here:<br>al USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <br>WM-2005-:                                                                                    | в)                                                                                                                                      |          |  |  |  |
| the<br>to a<br>reg.<br>citz<br>A. | letter Bl, B2,<br>nanage the IDR j<br>latony citation<br>ations.<br>RESIRICIED WAS<br>This waste mus<br>Section 3004(d<br>For Hazardous D<br>RESIRICIED WAS<br>"I certify und<br>ation of the t<br>immediately ne                           | Ebris: "This hazardous debris is subject to the alternative treatment standards of<br>UE TREATED TO PERCOMPACE SUPACIANS<br>For penalty of law that I have personally examined and am familiar with the treatment<br>reatment process used to support this certification and that, based upon my inquir<br>sponsible for obtaining this infommation, I believe that the treatment process has                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | abes aut<br>elow. W<br>tead of<br>boart D,<br>40 CFR<br>at techn<br>y of tho<br>s been op        | horized by BPA<br>here these<br>the 40 CFR<br>268.32, or RCF<br>Part 268.45."<br>nology and oper-<br>se individuals<br>serated and main | <b>-</b> |  |  |  |
|                                   | prohibitions s<br>waste. I am a<br>of fine and im<br>RESURICIED WAS<br>TRANED BY THA<br>"I certify und<br>I am aware tha<br>and imprisonme                                                                                                  | THES FOR WHICH THE INFRIMENT SUMMAND IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND J<br>IN TECHNOLOGY)<br>Her paralty of the law that the waste has been treated in accordance with the requi<br>at there are significant paralties for submitting a false certification, including<br>ant."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | of the procluding<br>INE WASIE<br>irements                                                       | chibited<br>the possibility<br>CHAS HEEN<br>of 40 CFR 268,                                                                              | 42.      |  |  |  |
|                                   | "I certify und<br>of the treatme<br>immediately re-<br>treated by inc<br>confustion in<br>unable to deter<br>such constitu-<br>the possibility                                                                                              | NATION, ORTIFICATION FOR INCINERATION ORGANICS<br>her penalty of law that I have personally examined and am familiar with the treatme<br>and process used to support this certification and that, based upon my inquiry of the<br>exponsible for obtaining this information, I believe that the nonvestewater organic<br>cineration in units operated in accordance with 40 CFR Part 264 Subpart 0 or Part 2<br>fuel substitution units operating in accordance with applicable bechnical requirer<br>act the nonvestewater organic constituents despite having used best good faith effe<br>arts. I am aware that there are significant penalties for submitting a false certi-<br>ty of fine and imprisonment."                                                                                                                                                                                                                                                                                                                                        | constitute<br>265 Subponents, au<br>acts to a                                                    | tividuals<br>tuents have bee<br>art 0, or by<br>nd I have been<br>analyze for                                                           |          |  |  |  |
|                                   | "I certify un<br>remove the has<br>further treats<br>false certific                                                                                                                                                                         | D WASLE REQUERS TRANMENT FOR UNDERLYING HAZAROOUS CONSITTUENDS<br>der panalty of law that the waste has been treated in accordance with the requirem<br>zandous characteristic. This decharacterized waste contains underlying hazardous (<br>ment to meet universal treatment standards. I am aware that there are significant<br>cation, including the possibility of fine and imprisonment."<br>SUE SUBJECT TO A VARIANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | constitu                                                                                         | ents that requ                                                                                                                          | re       |  |  |  |
|                                   | This waste is<br>effective data                                                                                                                                                                                                             | subject to a national capacity variance, a treatability variance, or a case-by-ca<br>e of prohibition in column 6 above.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                  |                                                                                                                                         | e        |  |  |  |
| E.<br>T                           | For Hazardous I<br>RESURICIED WA<br>"I have deten<br>all applicable<br>without furth<br>meintained at<br>I personally I<br>the waste to<br>268 Supart D<br>balieve that<br>penalties for<br>WASUE IS NOT<br>This waste is<br>person certain | Debris: "This hazardous debris is subject to the alternative treatment standards of<br>SHE CAN BE LAND DISPOSED WITHOUT FURTHER TRAIMENT<br>mined that this waste meets all applicable treatment standards set forth in 40 CFR<br>er treatment. A copy of all applicable treatment standards and specified treatment<br>the treatment, storage and disposal facility named above." "I certify under pera-<br>have examined and an familiar with the waste through analysis and testing or throu-<br>suport this certification that the waste complies with the treatment standards sp<br>and all applicable prohibitions set forth on 40 CFR 288.32 or RCPA section 3004(d)<br>the information I submitted is true, accurate and complete. I am aware that there<br>cannot find that the possibility of a fine and imprison<br>CUNNENTLY SUBJECT TO PART 268 RESURCEMENTS<br>is a newly identified waste that is not currently subject to any 40 CFR Part 268 res<br>that all information submitted in this and all associated documents is complete and | Part 26<br>efore, c<br>t method<br>lty of 1<br>gh knowl<br>ecified<br>1). I<br>are sig<br>ment." | 8 Subpart D, an<br>an be land disp<br>is is<br>aw that<br>edge of<br>in 40 CFR Part<br>puificant<br>ns.                                 | 0990     |  |  |  |
|                                   | st of my knowle<br>gnature                                                                                                                                                                                                                  | Title <u>du ner</u> Dete <u>3</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -/u_[                                                                                            | 01                                                                                                                                      |          |  |  |  |

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DA                                                                                                                                                                                               | 1B No. 20                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| UNIFORM HAZARDOUS<br>WASTE MANIFEST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1. Generator's US EPA ID<br>WAD 98097                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Doc                                                                                                                                                                                                                                                                                                                    | nifest<br>cument No. | 2. Page<br>of 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| 3. Generator's Name and Mailing Address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 1002 4TH ST. 583<br>BREMERTON, WA 98337<br>4. Generator's Phone (425) 427-0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 5. Transporter 1 Company Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | US EPA ID Num                                                                                                                                                                                                                                                                                                          | ber                  | C. 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| VOPAK USA INC.<br>7. Transporter 2 Company Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>WAD</u><br>8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0 6 7 5 4 US EPA ID Numl                                                                                                                                                                                                                                                                                               |                      | E. 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GENERATOR'S CERTIFICATION: I hereby decla         proper shipping name and are classified, packed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ional Information WEAR A<br>C: 1-800-424-9300<br>re that the contents of this consig<br>marked, and labeled, and are in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ONT. 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GENERATOR'S CERTIFICATION: 1 hereby decla proper shipping name and are classified, packed according to applicable international and nationa if 1 am a large quantity generator, 1 certify the content of the target of target of target of target of the target of targe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | THLOROETHYLENE SC<br>CHLOROETHYLENE SC<br>ional Information WEAR A<br>C: 1-800-424-9300<br>re that the contents of this consig<br>, marked, and labeled, and are in<br>government regulations.<br>It I have a program in place to<br>red the areacticable method of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | APPROPRIATE<br>0. 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Facility Owner or Operator: Certification<br/>Printed/Typed Name<br/>Frinted/Typed Nam</li></ul>                                                                                                  | CHLOROETHYLENE SC<br>HIOROETHYLENE SC<br>ional Information WEAR A<br>C: 1-800-424-9300<br>re that the contents of this consign<br>marked, and labeled, and are in<br>government regulations.<br>It I have a program in place to<br>cted the practicable method of<br>ment; OR, if I am a small quar<br>able to me and that I can afford.<br>Ceipt of Materials<br>Control Material Control | APPROPRIATE<br>O. 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| <ul> <li>11a. CN7401<br/>11b. CU1640<br/>TETRA<br/>TETRA<br/>15. Special Handling Instructions and Addi<br/>EMERGENCY CONTACT: CHEMTRE<br/>SHIPPER.</li> <li>16. GENERATOR'S CERTIFICATION: I hereby decla<br/>proper shipping name and are classified, packed<br/>according to applicable international and national<br/>If I am a large quantity generator, I certify the<br/>economically practicable and that I have sele<br/>future threat to human health and the environ<br/>the best waste management method that is avai<br/>Printed/Typed Name<br/>SC<br/>Printed/Typed Name<br/>SC<br/>18. Transporter 1 Acknowledgement of Re<br/>Printed/Typed Name<br/>Printed/Typed Name<br/>Discrepancy Indication Space<br/>20. Facility Owner or Operator: Certification<br/>11. Certify Comments of Certification<br/>12. Facility Owner or Operator: Certification<br/>13. Tachender of the the theory of theory of the theory of the theory of the theory o</li></ul>                                                                                                                                                                                                                                                                                         | CHLOROETHYLENE SC<br>HIOROETHYLENE SC<br>ional Information WEAR A<br>C: 1-800-424-9300<br>re that the contents of this consign<br>marked, and labeled, and are in<br>government regulations.<br>It I have a program in place to<br>cted the practicable method of<br>ment; OR, if I am a small quar<br>able to me and that I can afford.<br>Ceipt of Materials<br>Control Material Control | APPROPRIATE<br>O. CALLER<br>gnment are fully and au<br>a all respects in proper<br>reduce the volume a<br>treatment, storage, o<br>ntity generator, 1 have<br>Signature<br>Signature<br>Signature<br>Signature<br>Signature<br>Signature<br>Signature<br>Signature<br>Signature<br>Signature<br>Signature<br>Signature | PROTECT<br>MUST IDE  | ibed above by<br>ansport by hig<br>waste general<br>rently availabl<br>faith effort to<br>be compared<br>to the fort to<br>the fort to                                                                                                                                                                          | AR WHEN<br>VOPAK U<br>hway<br>red to the de<br>to me which<br>minimize my<br>Solution<br>and<br>as noted in 1<br>Noted to 1<br>as noted in 1<br>Noted to 1<br>as noted in 1<br>Noted to 1<br>as noted in 1 | HANE<br>SA AS                                                                                                   | Ave optermined to<br>ost the present<br>caretion and se<br>month Day<br>Month Day<br>OS 2 3<br>Month Day                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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CWM OF THE NORTHWEST Federal EPA ID: ORD089452353 17629 CEDAR SPRINGS LANE ARLINGTON, OR 97812

CITY HAND LAUNDRY ATTN: MANIFEST SECTION WAD980978274 1002 4TH ST BREMERTON WA 98337-1429

## CERTIFICATE OF DISPOSAL

Chemical Waste Management, Inc. has received waste material from CITY HAND LAUNDRY on 06/05/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 01088.

Profile Number: CN7401 CWM Tracking ID: 35823301 Process: LANDFILL Treatment Date: 06/06/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Beckysummer

LYNN MURR**(**LL RECORDS MANAGER Certificate # 89075 06/13/01

## MASTE MANAGEMENT, INC. RECYCLING/TSD HANDLING AGREEMENT (GENERATOR AND RECYCLING/TSD CONTRACTOR)



WHEREAS, Generator produces spent chemicals which may be considered to be "hazardous" or "toxic" within the meaning of applicable federal and state laws ("Spent Chemicals") and which therefore must be transported, stored, disposed of, recycled, treated or re-used ("Handled") in accordance with applicable laws pertaining to hazardous or toxic chemicals;

WHEREAS, Recycling/TSD Contractor owns or controls facilities which are capable of Handling Spent Chemicals in accordance with all applicable laws pertaining to such activities;

WHEREAS, the parties desire to enter into an arrangement for the Handling of Spent Chemicals, all on the terms and conditions hereinafter set forth;

NOW, THEREFORE, in consideration of the covenants and agreements contained herein, the undersigned agree to the following terms and conditions of this Recycling/TSD Handling Agreement as well as to the Standard Terms and Conditions Governing the Handling of Spent Chemicals ("Standard Terms and Conditions"), which are attached to the Generator copy of this Agreement and are incorporated herein by reference. All capitalized terms not otherwise defined herein shall have the meanings set forth in the Standard Terms and Conditions.

1. SPENT CHEMICALS SHIPMENT. The completed Uniform Hazardous Waste Manifest or appropriate state manifest which is identified by the reference number appearing in a space below the signatures to this Agreement and which pertains to the Spent Chemicals Shipment Handled under this Agreement is hereby incorporated herein by reference. Such manifest describes certain Spent Chemicals which Generator hereby agrees to ship to Recycling/TSD Contractor and which Recycling/TSD Contractor agrees to Handle at the facility named in such manifest ("Designated Facility").

2. COLLECTION, TRANSPORTATION, STORAGE AND DELIVERY. All Spent Chemicals Shipments shall be transported to Recycling/TSD Contractor by Van Waters & Rogers Inc., a Washington Corporation ("VW&R"), or an entity designated by VW&R to provide transportation and temporary storage services.

3. **PAYMENT.** It is understood that VW&R shall pay Recycling/TSD Contractor for Handling the Spent Chemicals Shipment (or, where money is owed to Generator, VW&R shall pay Generator for the Spent Chemicals Shipment) according to the terms of a certain Master Spent Chemicals Handling Agreement between Recycling/TSD Contractor and VW&R. Recycling/TSD Contractor shall not look to Generator for payment for Handling the Spent Chemicals Shipment, except for certain extraordinary charges incurred in connection with Nonconforming Spent Chemicals as set forth in the Standard Terms and Conditions.

4. **#INDEMNIFIED PARTY.** As used in the Standard Terms and Conditions, the term "Indemnified Party" shall mean either Recycling/TSD Contractor or Generator, depending upon which party claims indemnification under this Agreement.

5. GENERATOR INDEMNIFICATION. Generator shall defend, indemnify and hold harmless Recycling/TSD Contractor, its past, present and future officers, directors, employees, agents, insurers and successors (hereinafter in this Paragraph referred to collectively as "Recycling/TSD Contractor") from and against any and all Loss which Recycling/TSD Contractor may sustain or incur, be responsible for or pay out as a result of:

(a) Generator's breach of any representation, warranty, term or provision of this Agreement; or

(b) The negligence or intentional misconduct of Generator, its employees, agents, representatives or subcontractors in the performance of this Agreement, provided that such indemnification shall not apply to the extent such liabilities result from Recycling/TSD Contractor's negligence or intentional misconduct or from a breach of this Agreement by Recycling/TSD Contractor.

6. NAMES AND ADDRESSES OF PERSONS TO WHOM NOTICE IS TO BE GIVEN. The name of the person to whom notice is to be given on behalf of Generator appears on the Uniform Hazardous Waste Manifest in Item 16 or the appropriate state manifest. The name of the person to whom notice is to be given on behalf of Recycling/TSD Contractor appears on the Uniform Hazardous Waste Manifest in Item 20 or the appropriate state manifest. The addresses of the persons to whom notice is to be given appear on the Uniform -Hazardous Waste Manifest under Item 3 (for Generator) and Item 9 (for Recycling/TSD Contractor) or the appropriate state manifest.

## RECYCLING/TSD HANDLING AGREEMENT

(GENERATOR AND RECYCLING/TSD CONTRACTOR)

The undersigned hereby agree that, upon execution of this Recycling/TSD Handling Agreement, there is a binding contract between them according to the above terms and conditions, as of the day and year appearing below.

| GENERATOR EPA ID#: WAD980918214 RECYCLING/TSD CONTRACTOR:                                                                                                                                                                                                                                                                                                                                                                                                 |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| FACILITY: City hand laundry PRINT Ty A Harter Director - National Acc                                                                                                                                                                                                                                                                                                                                                                                     | ounts<br>.ce |
| PRINT                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |
| SIGNATURE:DATE:DATE:SHIPMENT APPROVAL NUMBER                                                                                                                                                                                                                                                                                                                                                                                                              |              |
| UNIFORM HAZARDOUS WASTE MANIFEST DOCUMENT NUMBER                                                                                                                                                                                                                                                                                                                                                                                                          |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |
| TRANSPORTATION / HANDLING AGREEMENT<br>(GENERATOR AND VW&R)<br>The undersigned hereby acknowledge that Generator and Recycling/TSD Contractor have entered into the at<br>Recycling/TSD Handling Agreement. The undersigned hereby agree that, upon execution of this Transportation/Handling Agreement, there<br>binding contract between them according to the terms and conditions appearing on the reverse side hereof, effective on the same date as | is a         |
| Recycling/TSD Handling Agreement.<br>GENERATOR EPA ID#:WAD 980978274 Van Waters & Rogers Inc.                                                                                                                                                                                                                                                                                                                                                             |              |
| FACILITY: a ROYAL PAKHOED COMPANY.                                                                                                                                                                                                                                                                                                                                                                                                                        | ¥            |
| PRINT                                                                                                                                                                                                                                                                                                                                                                                                                                                     | е.<br>С      |
| SIGNATURE: DATE: SIGNATURE: DATE: DATE:                                                                                                                                                                                                                                                                                                                                                                                                                   | - <u></u>    |

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## TRANSPORTATION/HANDLING AGREEMENT

WHEREAS, Generator has made arrangements with a Recycling/TSD Contractor to transport, store, treat, dispose of, recycle, or re-use (which terms are hereinafter referred to as to "Handle") certain spent chemicals which it has generated and which may be considered to be "hazardous" or "toxic" within the meaning of applicable federal and state laws ("Spent Chemicals");

WHEREAS, Van Waters & Rogers Inc. ("VW&R") is in a position to transport and otherwise assist in the Handling of such Spent Chemicals;

NOW, THEREFORE, in consideration of the covenants and agreements contained herein, the aforementioned parties agree to the following terms and conditions as well as to the Standard Terms and Conditions Governing the Handling of Spent Chemicals ("Standard Terms and Conditions"), which are attached to the Generator Copy of this Agreement and are incorporated herein by reference. All capitalized terms not otherwise defined herein shall have the meanings set forth in the Standard Terms and Conditions.

1. DELIVERY. Prior to the execution of this Agreement, Generator has selected the Designated Facility set forth in the Uniform Hazardous Waste Manifest or appropriate state manifest for the Handling of the Spent Chemicals Shipment, which manifest is identified by the reference number appearing above the signatures to this Agreement. Generator has also completed all necessary arrangements for the Handling of such Spent Chemicals Shipment, including the execution of a Recycling/TSD Handling Agreement. VW&R shall deliver the Spent Chemicals Shipment to such Designated Facility.

2. CHARGES. The amount to be paid by Generator to VW&R for the services to be rendered hereunder is set forth on VW&R's Standard Schedule of Posted Prices for the Approved Spent Chemicals Stream to which the Spent Chemicals Shipment belongs, subject to all terms, conditions, and credit provisions contained therein. VW&R shall pay Recycling/TSD Contractor for all services in connection with the Handling of the Spent Chemicals Shipment, except for certain extraordinary charges incurred in connection with all or any portion of a Nonconforming Spent Chemicals Shipment, which Generator has agreed to pay.

3. WORK ON GENERATOR'S PREMISES. Generator agrees to provide VW&R, its employees, agents, and subcontractors, a safe working environment for any work, in performing this Transportation/Handling Agreement which must be undertaken on premises owned or controlled by Generator, except for hazardous environmental work conditions resulting from spills or other accidents which VW&R has caused.

4. INDEMNIFICATION. As used in the Standard Terms and Conditions, the term "Indemnified Party" shall mean either VW&R or Generator, depending upon which party claims indemnification under this Agreement. Generator and VW&R shall each defend, indemnify, and hold harmless the other, its past, present and future officers, directors, employees, agents, insurers and successors (hereinafter in this Paragraph referred to collectively as "VW&R" or "Generator") from and against any and all Loss which VW&R or Generator may sustain or incur, be responsible for or pay out as a result of the other's breach of any representation, warranty, term, or provision of this Agreement.

5. VW&R INDEMNIFICATION. VW&R shall defend, indemnify and hold harmless Generator from and against any and all Loss which Generator may sustain or incur, be responsible for, or pay out as a result of:

(a) VW&R's breach of any representation, warranty, term or provision of this Agreement;

(b) any action or failure to act in connection with a Spent Chemicals Shipment which occurs during the period of time when such Shipment is in the possession of VW&R or VW&R's agents, employees or subcontractors regardless of whether VW&R or such persons are at fault with respect to such Loss, except where:

(i) such Loss arises from the action or the failure to act of Generator or any of its agents or employees,

(ii) a Nonconforming Spent Chemicals Shipment is being returned to Generator or disposed of in some alternate manner following the giving of a Rescission Notice, or

(iii) Generator is transporting the Spent Chemicals Shipment, either as a subcontractor to VW&R or otherwise;

c) the negligence or intentional misconduct of VW&R, its employees, agents, representatives or subcontractors in the performance of this Agreement, provided that such indemnification shall not apply to the extent such liabilities result from Recycling/TSD Contractor's negligence or intentional misconduct or from a breach of this Agreement by Recycling/TSD Contractor.

6. NAMES AND ADDRESSES OF PERSONS TO WHOM NOTICE IS TO BE GIVEN. The name of the person to whom notice is to be given on behalf of Generator appears on the Uniform Hazardous Waste Manifest in Item 16 or the appropriate state manifest and the address of such person appears on the Uniform Hazardous Waste Manifest in Item 3 or the appropriate state manifest. The name and address of the person to whom notice is to be given on behalf of VW&R is as follows:

Benerald St.

Director of Chemcare Van Waters & Rogers Inc. 6100 Carillon Point Kirkland, WA 98033 With a copy to:

Legal Services Department Van Waters & Rogers Inc. 6100 Carillon Point Kirkland, WA 98033

#### STANDARD TERMS AND CONDITIONS GOVERNING THE HANDLING OF SPENT CHEMICALS

These Standard Terms and Conditions are to be incorporated by reference into the Master Spent Chemicals Handling Agreement made between Van Waters & Rogers Inc., a Washington corporation ("VW&R") and Recycling/TSD Contractors, the Recycling/TSD Handling Agreement made between Generator and Recycling/TSD Contractor and the Transportation/Handling Agreement made between Generator and VW&R, all relating to the Handling of Spent Chemicals, and shall govern the Handling of such Spent Chemicals. When so incorporated, the particular agreement into which these Standard Terms and Conditions have been so incorporated shall hereinafter be referred to as the "Agreement." All capitalized terms not otherwise defined herein such description is intended for informational purposes only, in order to reflect the rights and obligations of such person under one or more other agreements which are related to the Agreement.

agreements which are related to the Agreement.

 SPENT CHEMICALS STREAM INFORMATION. VW&R shall function as a conduit whereby Generator shall, from time to time, provide to Recycling/TSD Contractor samples, forms, and other information ("Spent Chemicals Information") pertaining to types, categories, or streams of Spent Chemicals ("Spent Chemicals Stream") which Recycling/TSD Contractor may use in (a) determining whether such Spent Chemicals can be Handled by Recycling/TSD Contractor, (b) preparing any laboratory analysis of such Spent Chemicals or a report to the Generator thereon (the "Lab Report"), and (c) establishing the price(s) to be charged therefor. Spent Chemicals Informa-tion shall be periodically updated by Generator to meet regulatory require-ments and the reasonable needs of Recycling/TSD Contractor. All Spent Chemicals Streams which Recycling/TSD Contractor has agreed to Handle pursuant to this Agreement are hereinafter referred to as "Approved Spent Chemicals Streams." Generator, and not VW&R, shall be responsible for the accuracy and completeness of all Spent Chemicals Information. Recy-cling/TSD Contractor shall look solely to Generator, not to VW&R, and shall in no way hold VW&R responsible, should any Spent Chemicals Information provided by a Generator (and in no manner commingled, mixed, changed or in any way altered by VW&R) prove to be other than true, accurate, and complete.

2. TRANSPORTATION SERVICES: ACCEPTANCE AND DELIVERY. In connection with each Spent Chemicals Shipment, VW&R shall execute with Generator a Transportation/Handling Agreement relating to such Shipment ("Transportation/Handling Agreement"). Whenever VW&R is obligated pursu-ant to a Transportation/Handling Agreement to transport a shipment of Spent Chemicals ("Spent Chemicals Shipment"), VW&R shall collect such Spent Chemicals Shipment from Generator, transport it to Recycling/TSD Contractor (subject to such intermediate storage at VW&R or other facilities as shall, in VW&R's sole judgment, be necessary or desirable), and deliver such Spent Chemicals Shipment to Recycling/TSD Contractor in the same condition as received from Generators, reasonable wear and tear to containers excepted. Likewise. Generator and Recycling/TSD Contractor shall execute a such Spent Chemicals Shipment to Recycling/TSD Contractor in the same condition as received from Generators, reasonable wear and tear to containers excepted. Likewise, Generator and Recycling/TSD Contractor shall execute a Recycling/TSD Handling Agreement". The two aforementioned agreements, in combination with a completed Uniform Hazardous Waste Manifest are hereinafter referred to as "Handling Documents". Spent Chemicals Shipments shall be delivered to Recycling/TSD Contractor accompanied by the appropri-ate counterpart copies of the Uniform Hazardous Waste Manifest and the executed Recycling/TSD Handling Agreement, VW&R or Recycling/TSD Contractor (at the option of Recycling/TSD Contractor) shall assign a unique identification number for each Approved Spent Chemicals Stream ("Approved Spent Chemicals Stream Number") which number shall be supplied to the other parties and shall be included with the USDOT description (Item 11) on each Uniform Hazardous Waste Manifest prepared in connection with each Spent Chemicals Shipment. VW&R shall have no obligation to accept delivery of any shipment of Spent Chemicals unless: (a) Generator executes all shipping manifests required by Recycling/TSD Contractor and federal and state authorities ("Uniform Hazardous Waste Manifests") and completed Handling Documents, (b) the Spent Chemicals Shipment has been properly prepared for shipment, including the affixation of required labels, and (c) there is no visual, apparent indication that any container is not suitable for shipment. VW&R's acceptance of delivery of any Spent Chemi-cals Shipment shall not commingle, mix, change or in any way alter the composition of any Spent Chemicals to be sent to Recycling/TSD Contractor under this Agreement, W&R's acceptance of delivery of any Spent Chemi-cals Shipment shall not commingle, mix, change or in any way alter the colligations under this Paragraph and in no event shall Generator or Recy-cling/TSD Contractor hold VW&R responsible should any of Generator's obligations under this Pa utilize the services of subcontractors to perform transportation and/or storage services hereunder.

3. TITLE TO SPENT CHEMICALS. Title, risk of loss, and all other incidents of ownership of Spent Chemicals Shipments shall be transferred from Generator and vested in Recycling/TSD Contractor at the point in time when the Spent Chemicals Shipment departs from the Generator's facility on VW&R's or VW&R's subcontractor's vehicle(s) and Generator has signed the Uniform Hazardous Waste Manifest, subject to revocation of acceptance and title reversion, as provided in Paragraph 5 herein. Any marketable or usable material Recycling/TSD Contractor may recover from the Spent Chemicals Shipment shall be the sole property of Recycling/TSD Contractor.

RECYCLING/TSD CONTRACTOR'S HANDLING OF SPENT CHEMI-4. RECYCLING/TSD CONTRACTOR'S HANDLING OF SPENT CHEMI-CALS. Recycling/TSD Contractor shall Handle each Spent Chemicals Ship-ment at the Available Facility agreed to by Recycling/TSD Contractor and designated by Generator on the Uniform Hazardous Waste Manifest prepared-in connection with such Spent Chemicals Shipment ("Designated Facility") -using the method described in the List of Available Facilities and in compliance with all local, state, and federal laws governing such activities. Recycling/TSD Contractor shall use due care and prudence in; (a) Handling all Spent Chemicals Shipments so as to prevent injury to persons, contamina-tion, or threatened contamination of the environment, and any liability to VW&R or Generators, and (b) selecting any method or person to dispose of empty containers, still bottoms, and other residues, so as to prevent injury to persons, contamination, or threatened contamination of the environment, and empty containers, still bottoms, and other residues, so as to prevent injury to persons, contamination, or threatened contamination of the environment, and any liability to VW&R or Generators. When Recycling/TSD Contractor has become obligated to Handle a Conforming Spent Chemicals Shipment (which are not Nonconforming, as defined below), that obligation is absolute, subject only to the terms hereof, including the excuses of performance set forth in Paragraph 18 of these Standard Terms and Conditions. Accordingly, should Recycling/TSD Contractor not be able to perform its obligations to Handle a Conforming Spent Chemicals Shipment pursuant to a Recycling/TSD Han-dling Agreement, Recycling/TSD Contractor shall immediately notify VW&R and shall include with such notification a proposal to Generator of one or more alternate facilities or means of Handling such Conforming Spent Chemicals Shipment. VW&R shall immediately thereupon transmit such noti-fication to Generator. Generator shall have ten (10) days following notification by VW&R in which to either accept such alternate facility or means or to

designate another facility or means for further Handling. Any reasonable incremental cost of such further Handling (over and above the original contract price) and any other reasonable costs incidental thereto, including, without limitation, additional transportation costs, shall be Recycling/TSD Contractor's sole obligation.

 NONCONFORMING SPENT CHEMICALS.

 (a) Definition of Nonconformance. A Spent Chemicals Shipment
 shall be considered nonconforming ("Nonconforming"), for the purposes of

 this Agreement, if:

Agreement, II: (i) Nonconformity with Spent Chemicals Information. The Spent Chemicals contained therein do not conform to the Spent Chemicals Information supplied by Generator with respect to an Approved Spent Chemicals Stream or to the Lab Report or the Spent Chemicals contain constituents or components not listed in the Spent Chemicals Information which increase the nature or extent of the hazard, risk or cost undertaken by Reporting (TSD Contractor, or

which increase the nature of extent of the nazard, risk or cost undertaken by Recycling/TSD Contractor; or (ii) Manifest Information. The Uniform Hazardous Waste Manifest signed by the Generator does not conform to the Spent Chemicals Information, does not conform to all requirements of law, or does not otherwise contain complete and accurate information relating to such Spent Chemicals Shipment

Information, does not conform to all requirements of law, or does not otherwise contain complete and accurate information relating to such Spent Chemicals Shipment.
(iii) Containers. The containers for the Spent Chemicals Shipment are incompatible with the Spent Chemicals, are damaged, leaking, improperly closed or improperly prepared for shipment, pose an undue hazard to the health or safety of personnel or the facility in connection with the Handling or transportation of the Spent Chemicals, or do not conform to requirements of state, federal or other pertinent law.
(b) Notification of Nonconformance. At any point in the Handling process, but only for 30 days following Recycling/TSD Contractor's acceptance of a Spent Chemicals Shipment at its or its subsidiary's facility (the time of acceptance being the time of Recycling/TSD Contractor's execution at its or its subsidiary's facility of the Uniform Hazardous Waste Manifest relating to such Shipment, both VW&R and the Recycling/TSD Contractor shall have an independent right to determine when a Spent Chemicals Shipment is Nonconforming, each in the exercise of its sole discretion. Whenever it is determined that all or a portion of a Spent Chemicals Shipment is Nonconforming, the party which makes such determination shall immediately notify the other and VW&R shall thereupon immediately notify Generator. At the time of such notification and at any time thereafter until such Nonconformance has been cured, VW&R may, and at Recycling/TSD Contractor's request shall, by notice to Generator ("Rescission Notice"), rescind any prior acceptance by VW&R or Recycling/TSD Contractor of delivery of any Spent Chemicals Shipment.

(c) Reversion of Title to Nonconforming Spent Chemicals. Upon the giving of a Rescission Notice, title, risk of loss, and all other incidents of ownership shall revert to Generator as of the point in time such title, risk of loss, and other incidents of ownership originally vested in Recycling/TSD Contractor as if title had never transferred to Recycling/TSD Contractor in the first instance. the first instance.

the first instance. (d) Return or Alternate Disposal of Nonconforming Spent Chemi-cals. Following the giving of a Rescission Notice, VW&R or the Recy-cling/TSD Contractor (whichever has possession) shall properly store, prepare for lawful transportation, and return to Generator (through VW&R) such Nonconforming Spent Chemicals within a reasonable time, not to exceed ten (10) days after the giving of the Rescission Notice, unless within such time the parties agree to some alternate lawful manner of disposition. The parties' agreement to an alternative manner of disposition or acceptance of a Nonconforming Spent Chemicals Shipment shall not be deemed a waiver of the right of VW&R and/or the Recycling/TSD Contractor to reject any other Nonconforming Spent Chemicals Shipment. Generator shall accept possession of any rejected Nonconforming Spent Chemicals Shipment re-turned to Generator and shall sign all required shipping papers and the Uniform Hazardous Waste Manifest(s) which accompany the Nonconforming Spent Chemicals Shipment. If Generator refuses to Handle such Nonconform Uniform Hazardous Waste Manifest(s) which accompany the Nonconforming Spent Chemicals Shipment. If Generator refuses to Handle such Nonconform-ing Spent Chemicals Shipment, including without limitation shipment else-where for Handling, then VW&R or Recycling/TSD Contractor (whichever party has possession) shall thereupon be authorized to act as Generator's agent to take all steps, including execution of documents, deemed by VW&R in its sole judgment to be appropriate or necessary to Handle such Spent Chemicals Shipment. Generator shall pay Recycling/TSD Contractor and/or VW&R all of their respective reasonable expenses and charges associated with handling, loading, preparing, transporting, storing, caring for, sampling, analyzing, or otherwise Handling Nonconforming Spent Chemicals under this Agreement so long as VW&R notifies Generator of the Nonconformity.

BILLING AND PAYMENT. VW&R, Generator, and Recycling/TSD Contractor shall submit invoices for charges and fees which any party may owe to the others under the Agreement. Payment shall be made within thirty (30) days following receipt of a billing invoice. Any sums not paid when due shall bear interest at the rate of 18% per annum, or the maximum amount permitted by law, whichever is lower.

#### GENERATOR'S REPRESENTATIONS AND WARRANTIES. Generator hereby represents and warrants as follows:

(a) All Spent Chemicals Information delivered to Recycling/TSD Con-tractor pertaining to the Spent Chemicals Shipment or the Spent Chemicals Stream to which it belongs and all information appearing on the Uniform Hazardous Waste Manifest or appropriate state manifest are complete, true, and correct:

(b) The description and specifications contained in the Spent Chemi-cals Information delivered to Recycling/TSD Contractor fairly advises Recy-cling/TSD Contractor of the hazards and risks known by Generator to be incident to the Handling of the Spent Chemicals:

(c) The Spent Chemicals Shipment conforms to the Spent Chemicals Information, the Lab Report, the Approved Spent Chemicals Stream Number, and the Uniform Hazardous Waste Manifest or appropriate state manifest;

(d) All containers in the Spent Chemicals Shipment are marked, abeled, and are otherwise in conformance with governmental laws, regulations, and orders;

(e) Generator holds clear title to the Spent Chemicals Shipment;

 (f) Generator is under no legal restraint or order which would prohibit transfer of title of the Spent Chemicals Shipment to Recycling/TSD Contractor; and

(g) Generator has filed or will file with the appropriate governmental agency any preliminary notification required under applicable law for ship-ment of the Spent Chemicals Shipment.

WW&R'S AND RECYCLING/TSD CONTRACTOR'S RESPECTIVE REP-RESENTATIONS AND WARRANTIES. The parties hereto make the following representations and warranties:

(a) Recycling/TSD Contractor hereby represents and warrants as follows:

(i) All information supplied by Recycling/TSD Contractor, its em-ployees, agents, directors, officers, and representatives to VW&R concerning the Available Facilities, including all information set forth on the List of Available Facilities, any information furnished or to be furnished in onnection with Recycling/TSD Contractor's obligations under the Agree-nent is (or, in the case of information furnished hereafter by Recy-ling/TSD Contractor, shall be) true, complete, and accurate, and there has been and shall be no material omission or misrepresentation in connection therewith and

connection therewith; and (ii) Recycling/TSD Contractor has obtained all necessary permits nd licenses required in connection with its performance under the Agreement.

(b) VW&R hereby represents and warrants that all information sup-olied by VW&R, its employees, agents, directors, officers, and representatives o Recycling/TSD Contractor in connection with VW&R's obligations under VW&R hereby represents and warrants that all information sup-The Agreement is (or, in the case of information furnished hereafter by  $\nabla W\&R$ , shall be) true, complete, and accurate, and there has been and shall be no material omission or misrepresentation in connection therewith.

Each and every representation and warranty made by either party in onnection with the Handling of Spent Chemicals Shipments pursuant to the greement shall survive completion of performance under the Agreement.

9. INDEMNIFICATION PROVISIONS: DEFINITIONS. The following terms sed herein and in the Agreement have the meanings set forth below:
(a) "CERCLA" means the Federal Comprehensive Environmental Reponse, Compensation and Liability Act of 1980, 42 U.S.C. § 9601 et seq., and all regulations thereunder, both as amended from time to time.
(b) "RCRA" means the Resource Conservation and Recovery Act, 42 U.S.C. § 6901 et seq., and all regulations thereunder, both as amended from time to time. me to time.

— (c) "Other Enactment" means any federal, state, or local statute, ordinance, order, rule, or regulation of any type other than CERCLA and RCRA, including without limitation those relating to the Handling of Spent

RCRA, including without limitation those relating to the Handling of Spent hemicals, the contamination of the environment, any removal of such intamination or remediation thereof, or endangerment of human health. (d) "Loss" means any and all of the following, whether the result of any action of any governmental agency or any third party. liabilities, penalties, forfeitures, suits, losses, damages, fines, expenses, debts, obligations, claims, cluding, without limitation, fines, liabilities, or losses arising out of ERCLA, RCRA, or any and all Other Enactments, costs (including costs of investigation, defense, settlement and attorneys' and other professional fees whether or not litigation is instituted), costs and capital expenditures required tr compliance with CERCLA, RCRA, or any and all Other Enactments, any

r compliance with CERCLA, RCRA, or any and all Other Enactments, any sses related to death, bodily injury, property damage or destruction, damage ses related to death, bodily injury, property damage or destruction, damage the environment, losses which any Indemnified Party may sustain as a result of any investigation, removal, remediation, cleanup, or decontamination arising out of any contamination of or discharge or threatened discharge into e environment, whether liquidated or unliquidated, fixed or contingent, nown or unknown, but in no event shall include damages for loss of use, memory or profits

(e) "Indemnified Party" and "Indemnified Parties" shall mean the party or parties defined as the "Indemnified Party" or "Indemnified Parties" in the greement and shall include the respective past, present, and future officers, rectors, employees, agents, insurers, and successors of such party or parties.

10. RECYCLING/TSD CONTRACTOR INDEMNIFICATION. Recy-10. ery Indemnified Party from and against any and all Loss which such demnified Party may sustain or incur, be responsible for or pay out (except to the extent that such Indemnified Party is itself at fault with respect to such Loss) as a result of:

such Loss) as a result of:

(a) Recycling/TSD Contractor's breach of any representation, warranty, rm, or provision of the Agreement, or
(b) Recycling/TSD Contractor's or any other person's Handling of Spent Chemicals, containers, and residues once such Spent Chemicals have been accepted by Recycling/TSD Contractor at -its-facilities (as provided in ragraph 5(b) of these Standard Terms and Conditions), regardless of ether Recycling/TSD Contractor is without fault with respect to such Loss.
(c) The negligence or intentional misconduct of Recycling/TSD Contractor, its employees, agents, representatives or subcontractors in the performance of this Agreement, provided that such indemnification shall not annly to

ance of this Agreement, provided that such indemnification shall not apply to the extent such liabilities result from Indemnified Party's negligence or intentional misconduct or from a breach of this Agreement by Indemnified

Party. VW&R's indemnification of Recycling/TSD Contractor is provided by separate agreement.

11. **INDEPENDENT CONTRACTORS.** Each party is and shall be an independent contractor in the Handling of Spent Chemicals under the Agreement. No party or anyone employed by any party shall be the agent, representative, employee or servant of any other party in the Handling of

Spent Chemicals under the Agreement except as specifically provided to the contrary in the Agreement.

NOTICE AND COOPERATION. The following procedures shall apply to 12 indemnification under the Agreement:

indemnification under the Agreement:

(a) In the event that any Indemnified Party shall have a claim made or threatened against it as to which the Indemnified Party believes it is entitled to indemnification under the Agreement, it shall promptly notify the party against whom indemnification is sought and VW&R. The notice shall specify the party from which indemnification is sought, and provide available material details of the claim, with copies of any relevant documents. Failure to notify the above party(ies) of any claim shall relieve such party of its obligation to indemnify any Loss related to that particular claim.
(b) Within ten (10) days after receipt of a notice asserting a right to indemnification, the party from which indemnification is sought shall notify all other Indemnified Parties whether it undertakes the defense and disposition of the claim or declines responsibility for the claim. A party which

an other indentified rathes whether it undertakes the claim. A party which undertakes the defense and disposition of a claim may reserve its right to decline responsibility if facts subsequently come to its attention which indicate that it is not obligated to indemnify.

(c) A party which undertakes the defense and disposition of a claim shall have control of the defense and disposition, so along as such party's ability to perform its obligations under this Agreement relating to indemnifica-tion shall not suffer any material adverse change. The Indemnified Parties shall cooperate in the defense as reasonably requested by, and at the expense of, the undertaking party. The other Indemnified Parties may further partici-pate in the defense at their own expense, but shall not have control of the defense.

(d) If a party declines responsibility for a tendered claim and the parties cannot resolve the dispute within thirty (30) days, the question of responsibility to indemnify shall be submitted to arbitration under Paragraph 19 of these Standard Terms and Conditions. Pending such arbitration, the Indemnified Party against which the claim was asserted shall act to protect the interests of the parties with respect to the claim, subject to reimbursement of all costs and expenses by any party which is thereafter determined to have responsibility for conducting such defease. responsibility for conducting such defense.

NONEXCLUSIVITY. The parties acknowledge that the arrangements 13 contemplated under the Agreement are nonexclusive and that any Generator may, in its sole discretion, select persons and facilities other than Recy-cling/TSD Contractor to Handle Spent Chemicals, including but not limited to persons who are affiliates of VW&R, and that VW&R may utilize the services of persons and facilities other than Recycling/TSD Contractor to Handle Spent Chemicals, including but not limited to VW&R's own affiliates.

14. ENTIRE AGREEMENT. The Agreement represents the entire under-standing between the parties hereto relating to the matters addressed herein. The Agreement supersedes any and all prior agreements, whether written or oral, which may exist between the parties.

15 AMENDMENT. The Agreement may be amended from time to time only by an express instrument in writing signed by the parties.

SAVINGS CLAUSE. If any one or more of the provisions contained in greement shall, for any reason, be held to be invalid, illegal, or 16. the Agreement shall, for any reason, be held to be invalid, illegal, or unenforceable in any respect, such invalidity, illegality, or unenforceability shall not affect any other provisions of the Agreement and the Agreement shall be construed as if such invalid, illegal, or unenforceable provision had never been contained herein.

17. SCOPE AND SURVIVAL. The obligations of the parties to indemnify under the Agreement shall survive the expiration or termination of this Agreement.

18. **EXCUSE OF PERFORMANCE.** The performance of this Agreement, except for the payment of money for services already rendered, may be suspended by any party in the event performance is prevented by causes beyond the reasonable control of such party. Such causes shall include, but not be limited to, acts of God, acts of war, riot, fire, explosion, accident, flood or sabotage, governmental laws, regulations, requirements, orders, lockouts, or strikes.

19. MANDATORY ARBITRATION. Any controversy or claim arising out of or relating to the Agreement or breach of the Agreement shall be settled by arbitration in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The award resulting from the arbitration shall be final and binding upon the parties and judgment on the award rendered may be entered in any court having jurisdiction. The place of arbitration shall be mutually agreed upon by the parties to the arbitration or, if the parties are unable to agree St Louis Missouri if the parties are unable to agree, St. Louis, Missouri.

20. ATTORNEYS' FEES AND EXPENSES. If any action or proceeding shall be commenced before any court or governmental agency to enforce the terms of the Agreement, or if any arbitration shall take place pursuant to Paragraph 19 of these Standard Terms and Conditions, then the prevailing party shall be entitled to recover from the other party the reasonable attorneys' fees, costs, and expenses incurred by such prevailing party in connection with such action proceeding or arbitration. connection with such action, proceeding, or arbitration.

NOTICES. Except as otherwise provided, any notice to be given under 21 21. NOTICES. Except as otherwise provided, any notice to be given under the Agreement shall be in writing and shall become effective when delivered to a party (with appropriate copies to other persons as indicated in the Agreement) at the address of the party as indicated in the Agreement or at such other address as shall be designated by such party in a written notice to the address of (a) notice required to be given of Nonthe other party(ies). In the cases of: (a) notice required to be given of Non-conforming Spent Chemicals Shipment or (b) a Rescission Notice, notice is deemed to have been given at the time the notifying party informs the party to be notified by telephone, provided that written confirmation is mailed to the party to be notified, postage prepaid, within seventy-two (72) hours thereafter.