PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

BAYLINER MARINE
17825 59TH AVENUE NE
ARLINGTON, WASHINGTON

June 25, 2009

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ARLINGTON, WASHINGTON 98223

STANTEC PN: 190402025

Submitted by:
Stantec Consulting Corporation
7730 SW Mohawk Street
Tualatin, Oregon 97062

Prepared for:
Brunswick Corporation
1 North Field Court
Lake Forest, Illinois 60045

Date
June 25, 2009

Prepared by:

Ross R. Simmons
Principal Consultant

Reviewed by:

John McInnes
Managing Principal Geologist

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APPENDICES

1.0 INTRODUCTION

This report presents the results of a Phase II Environmental Site Assessment (ESA) for the Bayliner Marine property located at 17825 59th Avenue NE, Arlington, Snohomish County, Washington 98223. Stantec was retained by Brunswick Corporation, owner of the subject property, in March 2009 to complete a Phase I ESA in preparation for a potential sale of the subject property. Based on findings of the Phase I ESA, Brunswick requested Stantec to perform the Phase II ESA described herein.

1.1 BACKGROUND

The findings of the Phase I ESA were detailed in a report prepared by Stantec and dated March 23, 2009. A summary of key information from the Phase I ESA Report is presented below.

1.1.1 Subject Property Description

The subject property is a 32.8-acre industrial site developed with three office buildings and thirteen industrial buildings constructed between 1969 and 1996. The subject property is a fiberglass boat manufacturing facility that was in the process of being shut down at the time of the March 2009 Phase I ESA. No manufacturing activities were occurring at the time of the site reconnaissance, and the majority of the equipment had been removed. A number of boats remained stored at the property. The facility operated as a fiberglass boat plant from 1968 until December 2008. Prior to 1968, the site consisted of undeveloped land.

Figure 1 in Appendix A depicts the location of the subject property. Figure 2 shows the location of key features of the subject property relative to surrounding properties and features. Figure 3 presents a Site Plan of the subject property showing Stantec's boring and sampling locations.

The subject property includes employee parking lots, boat storage areas, three stormwater retention ponds, and the following major structures:

- Building 1 – Cruiser Assembly and Prototyping
- Building 2 – Cruiser Lamination and Boat Molds
- Building 3 – Production Lamination
- Building 4 – Yacht Assembly
- Building 5 – Office
- Building 6 – Office

- Building 7 – Parts Warehouse
- Building 8 – Woodshop
- Building 9 – Office
- Building 10 – Maintenance and Weld Shop
- Building 11 – Loading Building
- Building 12 – Plug Shop
- Building 12A – Foam Milling Room
- Building 14 – Windshield and Wire Shop
- Building 16 – Lamination Building
- Building 17 – Large Yacht Assembly

The subject property is located in an area of moderately dense industrial and commercial development. It is bordered on the north by 180th Street NE. Across the street to the north of Building 1 is Campbell and Neilson Auto Wrecking (18021 59th Avenue NE). Undeveloped land is located across the street to the north of Building's 2, 3 and 4. Across the street to the north of the eastern boat storage yard is the Stella-Jones wood preserving plant (6520 188th Street NE).

The subject property is bordered on the east by a currently vacant former manufacturing building (address and former tenants unknown). Further to the east are a Burlington Northern Railroad line, smaller commercial structures, and 67th Avenue NE. A residential neighborhood lies beyond 67th Avenue. The subject property is bordered on the south primarily by undeveloped land. To the west of the subject property is 59th Avenue NE, with the Arlington Municipal Airport beyond.

1.1.2 Phase I ESA Findings

The March 23, 2009 Phase I ESA Report identified the following Recognized Environmental Conditions (RECs) associated with the subject property:

- Wastewater discharges from the facility were originally directed to two septic systems with leach fields on the subject property. All wastewater from the facility went to the on-site septic systems from 1968 until at least 1987. Bayliner buildings were gradually connected to the municipal sanitary sewer system between 1987 and 2005. Any chemical waste constituents in the wastewater discharges had the potential to migrate from the leach fields to subsurface soil and groundwater beneath the subject property.

- All stormwater catch basins and trench drains on the property discharged the collected stormwater to a series of three retention ponds along the southern boundary of the subject property. There was a potential that chemical or petroleum contaminants that became entrained in stormwater runoff may have accumulated in sediments within the ponds or leached to underlying soil or groundwater.

- Washington Department of Ecology's underground storage tank (UST) database indicated that two USTs had been present on the subject property from 1964 until 1996. However, the database did not provide any additional information about the removal of the tanks, and files researched at the City of Arlington Fire Department contained no record at all of former USTs. If USTs had indeed been previously present, there was a potential that petroleum leaks or spills from the tank systems could have caused contamination of subsurface soil or groundwater.

1.2 SCOPE OF WORK

The scope of work for the Phase II ESA was developed in consultation with Brunswick to further evaluate the potential presence of subsurface contamination associated with the RECs discussed above, as well as other aspects of the environmental condition of the property. Specifically, the Phase II ESA included the following tasks:

1. Interviews with former Bayliner employees with knowledge of the reported former USTs, to obtain more information about the former location of the tanks and activities associated with their removal.

2. Review of Department of Ecology files regarding the reported former USTs to determine additional details about their removal, and whether any evidence of petroleum releases was noted at the time of removal.

3. Review of Department of Ecology files pertaining subsurface contamination at the Stella-Jones (formerly J.H. Baxter) woodtreating plant located across 180th Street to the north of the subject property. Data reviewed during the Phase I ESA indicated that known groundwater contamination was present at this site, but that the affected areas were several hundred feet north of the subject property. With the direction of groundwater flow reported to be toward the northwest, this known contamination was not judged to represent a REC for the subject property. However, at the request of Brunswick, Stantec included a review of Ecology files to confirm this assumption and evaluate available groundwater quality data from locations on the Stella-Jones site nearer to the subject property.

4. Installation of one soil boring to a depth of up to 40 feet below ground surface (bgs) in each of the two former septic system leach fields (B-4 and B-7), with collection and laboratory analyses of soil and groundwater samples to assess potential subsurface impacts of these historic site features.

5. Installation of one soil boring (B-5) to a depth of up to 40 feet bgs in the area of the former USTs, with collection and laboratory analyses of soil and groundwater samples to assess potential subsurface impacts of these historic site features.

6. Installation of one soil boring (B-3) to a depth of up to 40 feet bgs in the area of the current aboveground storage tanks (ASTs) and associated fuel dispensers, with collection and laboratory analyses of soil and groundwater samples to assess potential subsurface impacts from spills or leaks of fuel.

7. Installation of one soil boring (B-2) to a depth of up to 40 feet bgs in the presumed downgradient direction from the largest of the three stormwater retention ponds (Pond #2), with collection and laboratory analyses of soil and groundwater samples to assess potential subsurface impacts from leaching of contaminants from the pond.

8. Installation of one soil boring (B-6) to a depth of up to 40 feet bgs near the northern property boundary in the presumed downgradient direction from the main operational areas of the Bayliner manufacturing facility, with collection and laboratory analyses of soil and groundwater samples to assess potential subsurface impacts of these historic site features.

9. Installation of one soil boring (B-1) to a depth of up to 40 feet bgs in the northeast portion of the subject property, with collection and laboratory analyses of soil and groundwater samples to assess potential subsurface impacts from the historic activities at the adjoining Stella-Jones woodtreating facility.

10. Collection and laboratory analyses of sediment samples from the bottom of each of the three ponds in the area of the inflow to the pond, to evaluate whether stormwater entering the ponds may have transported contaminants to accumulate in the pond sediments.

2.0 DEPARTMENT OF ECOLOGY FILE REVIEW

2.1 BAYLINER MARINE UST REMOVAL

Subsequent to completion of the Phase I ESA, Stantec interviewed Mr. Tad Blankenbaker, site manager at the Bayliner Marine facility. Mr. Blankenbaker has worked at the subject property for 20 years and stated that the USTs had been formerly located in the area just north of Building #11.

On May 19, 2009, Ms. Amy Zach of Stantec reviewed files pertaining to the former USTs at the Northwest Region office of the Department of Ecology in Bellevue, Washington. Ecology records indicated that one 5,000-gallon aviation gasoline UST and one 9,000-gallon Jet-A UST were removed from the ground in April 1989. The file contained a letter from Bayliner Marine notifying the agency of the planned removal, and stating "We have already contacted the local Fire Marshal and requested a permit." The letter stated that Fire Marshal Steve Anderson planned to make visual and olfactory observations around and below the tanks. The letter stated that Bayliner would collect soil samples for analyses if the visual inspection suggested any possible concern about fuel leaks or spills. Other notes in the file indicated that the tanks were 6 to 10 years old at the time of removal, and were constructed of carbon steel. Product inventory had reportedly been measured daily as a means of monitoring for leaks from the tanks. Piping from the tanks to dispensers consisted of bare steel underground pipe runs.

No further documentation submitted after the removal of the USTs was present in the Ecology files.

2.2 STELLA-JONES (FORMER J.H. BAXTER) WOODTREATING

On May 29, 2009, Ms. Amy Zach of Stantec reviewed extensive files at the Department of Ecology Northwest Region office in Bellevue, Washington pertaining to the investigation and remediation of contamination at the Stella-Jones wood treating facility at 6520 188th Street NE. A portion of this facility is located directly across 180th Street to the north of the subject property. A summary of the information in the files is presented below.

The Stella-Jones facility treats telephone and power poles using a pressure-treating process with a solution of 5% pentachlorophenol (PCP) in a base oil carrier. An alternate treatment process using Copper Naphthanate was added to the facility in approximately 2002-2003[1]. The facility encompasses approximately 57 acres. Parcel A includes approximately 17 acres used for the pole treatment operations, located in the northern part of the Stella-Jones facility, more than 1,500 feet north of the subject property. An additional 7 acres in the northern part of the facility is a closed landfill containing untreated-wood waste. Parcel B comprises 28 acres on the

[1] Underground Injection Control Program Registration Form, submitted to Washington Department of Ecology Water Quality Program, by J.H. Baxter & Co., May 27, 2003.

southern part of the facility adjacent to the Bayliner property. Parcel B has been used for untreated pole storage and pole peeling only. No wood treating has ever occurred on Parcel B.[2]

The location of the Stella-Jones facility was in agricultural use through the mid 1960s when Ted Butcher, Inc. constructed a woodtreating facility on Parcel A. Butcher peeled logs for use as telephone poles and treated them with a solution of PCP and creosote. PCP and creosote waste were reportedly disposed into a pit on the south portion of Parcel A (known as the Butcher Pit). In 1970, the Butcher facility was purchased by J.H. Baxter. Baxter continued the wood treating operations and purchased Parcel B for storage of untreated poles[3]. The Baxter operation was acquired by Stella-Jones Corp. in 2007.

During expansion of the woodtreating system in the 1970s, an area of heavy tar was excavated from the Butcher Pit area and disposed as hazardous waste at the Arlington, Oregon hazardous waste landfill. Releases of PCP solution from a treatment tank were reported in 1989, 1990 and 1991[4].

An initial groundwater investigation was conducted in 1989. Three monitoring wells were installed on Parcel A to monitor impacts to groundwater quality from the wood waste landfill, and a fourth upgradient well was installed on Parcel B approximately 1,000 feet north of the Bayliner property. In 1990, three additional monitoring wells (MW-1, MW-2, MW-3) were installed on Parcel A. MW-4 was installed in 1994 in the southwest portion of Parcel B, about 400 feet north of the Bayliner property (see Appendix A, Figure 2).

An investigation of soil and groundwater quality in the untreated pole storage area (Parcel B) was completed in October 2002. Locations of the 2002 soil borings (SB-52 through SB-58), adjacent to stormwater catch basins, are depicted on Figure 2 in Appendix A. Grab groundwater samples were collected from each boring location. In addition, a groundwater monitoring well (MW-14) was added to the site's well network near the southern boundary of the Baxter facility, across the street from the employee parking lot on the Bayliner property. A PCP concentration of 0.067 micrograms per liter (µg/L) was reported in the groundwater sample from SB-57, across the street from the northeast corner of the Bayliner property. This is a very low concentration, just slightly above the laboratory method detection limit (MDL). PCP was not detected at any of the other groundwater sample locations within 1,000 feet of the subject property (SB-54, SB-55, SB-56, SB-58, MW-4, MW-14). Analyses of groundwater from MW-14 for Polynuclear Aromatic Hydrocarbons (PAHs) and Total Petroleum Hydrocarbons-Diesel Range (TPH-D) were also performed. A low total PAH concentration of 0.0425 µg/L was reported at MW-14. This was well below the Method A Groundwater Cleanup Level of 5 µg/L

[2] *Draft Work Plan, J.H. Baxter Arlington Plant, Remedial Investigation/Feasibility Study, Arlington, Washington*, prepared by Hart Crowser, Inc., Dec. 2001.
[3] Hart Crowser, 2001
[4] Hart Crowser, 2001.

established under MTCA by Ecology. The only locations with elevated concentrations of PCP, PAHs and TPH-D were located 2,000 to 3,000 feet north of the subject property.[5]

October 2002 groundwater data showed a fairly steep groundwater gradient across the Stella-Jones property toward the northwest.

Groundwater wells at the Baxter facility were sampled as many as 40 times between 1990 and 2001. PCP was regularly detected in three of the wells on Parcel A, but was not detected at MW-4 between 1990 and 2008. PCP concentrations were highest, up to 570 µg/L, at MW-3, 2,000 feet to the north of the Bayliner property. Reported concentrations were less than 100 µg/L at other locations, and concentrations at all locations have been gradually declining since 1993. Groundwater has been encountered at depths ranging from 10 to 40 feet bgs, depending on time of year and monitoring location. Groundwater levels fluctuate 5 to 10 feet between wet season and dry season, and as much as 18 feet between wet years and dry years. Groundwater elevations have been significantly higher in the east and south portions of the Baxter site than at locations to the north and west, and groundwater flow direction has been consistently toward the northwest. Groundwater data suggest that substantial recharge of the aquifer occurs from the hilly upland residential neighborhoods immediately to the east. The flow patterns indicate that impacts from the Baxter facility are "very unlikely" to reach domestic groundwater wells to the south and east of the site[6].

Stormwater quality was analyzed quarterly from 1994 to at least 2001. PCP concentrations have been detected in Parcel A storm drains at concentrations averaging between 200 and 450 µg/L. PCP has also been detected in some storm drains on Parcel B, but at much lower concentrations, averaging around 30 µg/L.

The stormwater catch basins in Parcel B were removed in 2002. At the time of removal, soil samples were collected from beneath the catch basins at a depth of 48 to 50 inches bgs. Samples were analyzed for PCP and TPH-D. At catch basin 20, near MW-14 along the southern property boundary of the Stella-Jones site, PCP at 0.12 milligrams per kilogram (mg/kg) and TPH-D at 81 mg/kg were detected in the soil sample. PCP was not detected at any other catch basin location within 500 feet of the Bayliner property, and TPH-D was not detected at any other catch basin location within 300 feet of the Bayliner property[7].

In 2003, J.H. Baxter installed a stormwater treatment system to collect stormwater runoff from both the treated wood area of the facility (Parcel A), and the untreated wood area (Parcel B). The stormwater is routed to a treatment building located on the southeast corner of the property near 180th Street NE where the runoff is treated via chemical precipitation and filtering to remove solids, and by granular activated carbon to remove PCP contamination. Following treatment, the system effluent is tested to confirm compliance with discharge criteria, then

[5] Underground Injection Control Program Registration Form, May 27, 2003.
[6] Hart Crowser, 2001.
[7] *Drain Closure Under State Waste Discharge Permit ST-7425,* prepared by J.H. Baxter and submitted to Washington Department of Ecology, March 23, 2003.

pumped to a stormwater infiltration gallery in the southwest corner of the property where the discharge is allowed to infiltrate to the subsurface at a depth of 8-10 feet bgs, recharging underlying groundwater. The infiltration gallery is located directly across the street to the north of the boat storage area at the Bayliner property.

Groundwater sampling conducted in February 2004 found no PCP or PAHs at MW-4 or MW-14. The closest reported contamination to the Bayliner property was at MW-10, about 1,500 feet to the north.

No data more recent than 2004 was found in the Department of Ecology files.

3.0 LIMITED SUBSURFACE INVESTIGATION

3.1 PRE-FIELD WORK ACTIVITIES

Prior to mobilizing to the site, on May 20, 2009, Stantec notified the Washington Utilities Underground Location Center (800-424-5555) to alert the utility companies in the area of the scheduled work, and request that they mark all underground utility locations in accordance with State of Washington requirements. In addition, Stantec subcontracted with Applied Professional Services, Inc. (APS) a private utility locating contractor to mark private underground utilities near the proposed boring locations. On May 20, 2009, a representative with APS met Stantec at the subject property to mark locations of all power, communications, natural gas and water lines in the vicinity of the proposed borings.

3.2 INSTALLATION OF SOIL BORINGS

Stantec retained Cascade Drilling Services, Inc. of Woodinville, Washington to provide hollow-stem auger drilling equipment and crews for installation of seven soil borings at the subject property. Drilling commenced on May 20, 2009 and was completed on May 21, 2009. As an added safety precaution, the first 5 feet of each boring was cleared using a hand auger. The 4-inch diameter auger stem was then lowered into the hand-cleared boring and drilling began. Drill cuttings were placed into 55-gallon steel drums which, when full, were closed with a lid, labeled with Stantec's contact information and temporarily stored on-site.

Soil samples were obtained at every 5 feet of depth using a split-spoon sampler attached to the drill string. Soil samples were examined for visual or olfactory indications of contamination and were screen in the field for volatile organic vapors using a photoionization detector (PID) with a 10.6 electron-volt lamp. Soil samples from each depth interval were then collected from the split spoon using EPA Method 5035 samples to minimize loss of volatile constituents during sample collection. The samples were transferred to clean, laboratory-supplied sample containers, placed in a cooler, and held for possible laboratory analyses.

Soil samples were also characterized according to the Unified Soil Classification System and observations were recorded on a boring log. Copies of the boring logs are provided in Appendix C.

The borings were continued to at least 5 feet below the first encountered groundwater, or the depth of auger refusal, whichever was shallower. After reaching the total depth in each boring, a temporary two-inch diameter monitoring well casing was placed in the boring, with 10 feet of screen placed both above and below the water table. The annulus around the temporary well casing was filled with sand to a depth of at least 2 feet above the screened interval of the well.

Following completion of all soil and groundwater sampling activities, the temporary casing was removed from the boring, and the hole was backfilled with bentonite slurry.

3.3 SAMPLING OF POND SEDIMENT

To evaluate potential accumulations of contamination in the three on-site retention ponds as a result of stormwater flow into the ponds, Stantec collected a surface sediment sample from the bottom of each pond on May 22, 2009. At Retention Pond #1, the sample was collected approximately 3 inches below the pond bottom, at the water's edge about 2 feet from the inlet pipe. At Retention Pond #2, a sample was collected at the water's edge just west of a concrete barrier dividing the pond. Due to safety concerns, this sample was collected about 20 feet away from the inlet pipe. Retention Pond #3 did not contain any water on the day of the sampling. A sediment sample was collected about 4 inches below the pond bottom, at the deepest point of the pond, approximately 8 feet from the inlet pipe. All three sediment samples were collected using a clean trowel to place the sample directly into laboratory-supplied glass sample jars. The jars were immediately closed and labeled and placed into a cooler.

3.4 GROUNDWATER SAMPLING

A groundwater sample was collected from each of the seven borings for laboratory analyses. A peristaltic pump was used to draw representative formation water into the sample chamber. Following purging of the water, a grab groundwater sample was collected using the peristaltic pump and a clean length of dedicated plastic tubing. The water samples were decanted directly into laboratory-supplied clean sample containers, which were labeled with a unique identifier and placed immediately into a cooler.

3.5 LABORATORY ANALYSES

One soil sample from each boring was selected for laboratory analyses. The selected sample at each location was from the depth interval just above the saturated zone, except at boring B-6 where a very low PID reading was observed in the sample from the 5-foot depth. No positive PID readings were recorded at any of the other sample intervals in any of the borings. Based on the PID reading of 1.2 ppm at the 5-foot sample in B-6 and the 0.0 PID reading from the deeper samples, the 5-foot sample from B-6 was selected for laboratory analyses.

The selected soil samples and the groundwater samples from each boring were maintained on ice in a cooler and under chain-of-custody until delivery to the project laboratory. All samples were shipped to Environmental Science Corp. (ESC) laboratory in Mt. Juliet, Tennessee for analyses.

All of the soil, sediment and groundwater samples were analyzed by ESC for the following parameters:

- Volatile Organic Compounds (VOCs) by US EPA Method 8260B
- Semi-Volatile Organic Compounds by EPA Method 8270 C

- RCRA 8 Total Metals by US EPA Method 6010 (arsenic, barium, cadmium, chromium, lead, selenium and silver) and US EPA Method 7471 (mercury).

4.0 SUMMARY OF FINDINGS

4.1 OBSERVED SUBSURFACE CONDITIONS

Observed subsurface soil in the borings at the Bayliner site consisted of fine-to-coarse-grained sand with traces of gravel. Similar soil conditions were noted at all depth intervals in all of the borings, with the only noticeable difference being slight variation in the amount of gravel. Groundwater was encountered at a depth of approximately 18 feet bgs in all borings.

According to the USGS 7.5-minute topographic map for the Smokey Point, Washington quadrangle (1981), the subject property is located at an elevation of approximately 130 feet above mean sea level. The area to the north, south and west is relatively flat, sloping downward slightly toward the Stillaguamish River approximately 1.4 miles to the northwest. However, an area of low hills rise steeply just to the east of the subject property, reaching to ridges of up to 350 feet above mean sea level within less than one-half-mile. Based on this observed surface topography, groundwater beneath the Bayliner property is expected to flow toward the northwest

The inferred groundwater flow direction has been confirmed through groundwater monitoring data at the Stella-Jones (former J.H. Baxter) woodtreating facility across the street to the north. According to an October 2001 Remedial Investigation/Feasibility Study Work Plan for the Baxter property, prepared by Hart Crowser Inc., the area is a broad valley that filled with glacial outwash and river alluvium during, and after, the retreat of the last glaciers. These deposits are generally coarse-grained sands and gravels believed to be about 150 feet thick. These deposits are underlain by a layer of glacial till that separates the surface aquifer from any deeper water-bearing zones.

According to the Hart Crowser Work Plan, coarse-grained sandy gravel is present to depths of 15 to 25 feet bgs beneath the Baxter site, underlain by finer sand deposits to at least 50 feet bgs. Groundwater contour maps developed for the Baxter site show a fairly steep gradient, with potentiometric surface elevation dropping as much as 15 feet between the southeast corner of the property, near the Bayliner site, and the northwest corner of the Baxter property about 2,000 feet distant. The groundwater system is recharged by direct infiltration of precipitation and by inflow from the upland area to the east, with a consistent southeast-to-northwest flow pattern.

4.2 SOIL SAMPLE ANALYTICAL RESULTS

Analytical results for soil samples are summarized in Appendix B, Tables 1 and 2. Complete copies of the laboratory analytical reports are provided in Appendix D.

Low concentrations of Tetrachloroethylene (PCE), a common industrial and dry cleaning solvent, were found in the soil at 6 of the 7 soil boring locations. PCE was not present above the detection limit of the laboratory method in the sample collected from B-7, in one of the

former septic leach field areas on the western portion of the property. PCE concentrations ranged from 0.0036 mg/kg to 0.011 mg/kg in the other six soil samples. These are all well below the MTCA Method A Soil Cleanup Level for Unrestricted Site Use, established by the Department of Ecology, of 0.05 mg/kg.

Acetone (0.082 mg/kg) and styrene (0.0026 mg/kg) were also detected in the sample from B-6. Washington has not established Method A Soil Cleanup Levels for these compounds. But for purposes of comparison, the US EPA's risk-based Regional Screening Levels are 61,000 mg/kg for acetone and 6,500 mg/kg for styrene in residential soil. The detected concentrations in the B-6 sample are several orders of magnitude below these US EPA screening levels, which were developed using a process similar to the one outlined under MTCA for calculating site-specific Method B cleanup levels.

Dimethyl Phthalate was the only SVOC detected in any of the samples, at a concentration of 1.3 mg/kg in the sample collected from B-6. Washington has not established a Method A Cleanup Level for this compound, and this compound is not included in the US EPA Regional Screening Levels.

No other VOCs or SVOCs were detected in any of the samples at concentrations above the laboratory MDL.

Several RCRA metals were present in the soil samples. Results were compared against MTCA Method A Soil Cleanup Levels for Unrestricted Site Use. Method A Cleanup Levels have been established for 5 of the 8 metals analyzed (arsenic, cadmium, chromium, lead and mercury). The detected concentrations of these 5 metals were all well below their respective Method A Cleanup levels.

Barium was present in all 7 samples, at concentrations ranging from 43 to 60 mg/kg. Washington has not established a Method A Cleanup Level for barium. However, the US EPA's Regional Risk-Based Screening Level for barium in residential soil is 15,000 mg/kg. The detected concentrations of barium in soil are several orders of magnitude below this screening level.

Silver was not detected in 6 of the 7 soil samples. In the sample collected from B-7, a silver concentration of 1.2 mg/kg was reported. Washington has not established a Method A Cleanup Level for silver. However, the US EPA's Regional Risk-Based Screening Level for silver in residential soil is 390 mg/kg, so the detected silver concentration appears to be well below levels of concern.

Selenium was not detected above the laboratory MDL in any of the soil samples.

4.3 POND SEDIMENT SAMPLE ANALYTICAL RESULTS

Acetone was detected at low concentrations in the sediment samples from RP-1 (0.14 mg/kg) and RP-3 (0.056 mg/kg). Acetone was not detected in the sample from RP-2. No other VOCs

or SVOCs were detected in any of the pond sediment samples at concentrations exceeding the laboratory MDL.

As with the soil samples discussed above. The sediment samples contained several RCRA metals, in all cases below MTCA Method A Soil Cleanup Levels for Unrestricted Site Use, or below US EPA risk-based screening levels in cases where MTCA cleanup levels have not been established.

4.4 GROUNDWATER SAMPLE ANALYTICAL RESULTS

PCE was the only VOC reported in groundwater samples at concentrations exceeding the laboratory MDL. The reported PCE concentration exceeded the MTCA Method A Groundwater Cleanup Level at three locations: B-4 (42 µg/L), B-5 (31 µg/L), and B-6 (18 µg/L). Lower concentrations were also detected at B-3 (3.3 µg/L) and B-2 (1.5 µg/L). The highest reported PCE concentration is from a boring location (B-4) in the area of a former septic system leach field. The other locations with PCE concentrations above the MTCA Method A cleanup level are located in the presumed downgradient direction from B-4.

Pentachlorophenol (PCP), the wood treatment chemical present in groundwater at the adjacent Stella-Jones (former J.H. Baxter) facility, was not present in any of the subject property groundwater samples at concentrations above the laboratory MDL, nor were any other SVOCs.

Several RCRA metals were detected in groundwater samples. Arsenic was reported in only one sample, with a concentration of 24 µg/L in the sample from B-5, exceeding the MTCA Method A Groundwater Cleanup Level of 5 µg/L.

Lead was reported in 5 of the 7 groundwater samples. The concentration of 20 µg/L in B-1 exceeds the MTCA Method A Groundwater Cleanup Level of 15 µg/L. All other lead concentrations were below the Method A Cleanup Level.

Cadmium was also detected only in the sample from B-5. Chromium was detected in 6 of the 7 groundwater samples. All cadmium and chromium concentrations were below the Method A Groundwater Cleanup Level of 50 µg/L.

Barium was reported in all 7 groundwater samples at concentrations ranging from 71 to 480 µg/L. No Method A Groundwater Cleanup Level has been established for barium. However, for comparison purposes, the US EPA's Regional risk-based screening level for barium in drinking water is 7,300 µg/L. All reported concentrations are more than an order of magnitude lower.

Selenium was reported in only one groundwater sample, at a concentration of 22 µg/L. No Method A Groundwater Cleanup Level has been established for selenium. However, this is well below the US EPA's Regional risk-based screening level for selenium in drinking water of 180 µg/L.

5.0 SUMMARY AND CONCLUSIONS

The Phase II ESA at the Bayliner property identified an area of shallow groundwater impacted with PCE at concentrations above the Washington MTCA Method A Groundwater Cleanup Level of 5 µg/L. The highest reported concentration of PCE was 42 µg/L at B-4, located in the area of a former septic system leach field north of Building 14. At B-5, approximately 200 feet northwest in the presumed downgradient direction from B-4, the reported PCE concentration was 31 µg/L. At B-6, an additional 600 feet downgradient to the northwest, the PCE concentration was 18 µg/L near the northern boundary of the Bayliner property. Based on the preliminary data generated in this investigation, the lateral extent of PCE impact to the east and west appears to be limited. At B-3 and B-2, approximately 100 to 200 feet northeast of B-4, the PCE concentrations were 3.3 and 1.5 µg/L, respectively. At B-7, roughly 750 feet west-northwest of B-4, PCE was not detected.

No other VOCs were detected in the collected groundwater samples. The source of the PCE contamination is not known. Additional investigation may be needed to evaluate the possibility of an off-site upgradient source.

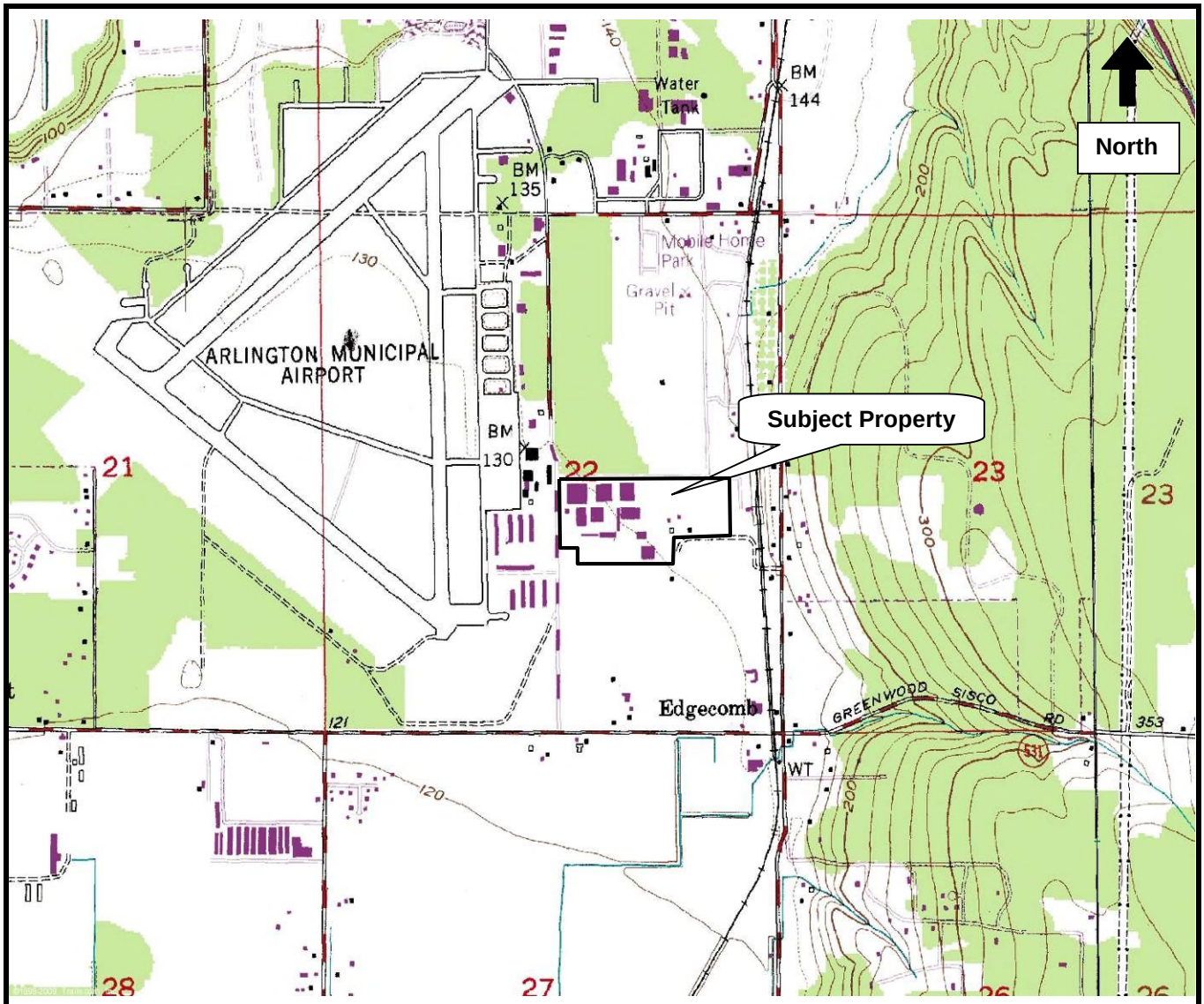
No SVOCs were detected in any of the groundwater samples. Several metals were identified in the groundwater samples, but only arsenic in B-5 at 24 µg/L and lead in B-1 at 20 µg/L exceeded the respective MTCA Method A Cleanup Levels. The elevated concentrations of arsenic and lead in groundwater samples may be attributable to turbidity in the samples, since the samples were not filtered prior to analysis.

The analytical results did not identify any compounds in soil at concentrations exceeding Method A Soil Cleanup Levels for Unrestricted Site Use. The low reported concentrations of PCE in soil are not indicative of a source point contributing to the PCE impacts to groundwater. In fact, based on reported large fluctuations in groundwater levels in the area, the PCE in soil may represent residual impacts from the contaminated groundwater. Several compounds were detected for which Method A Cleanup Levels have not been established.

Stantec reviewed records of the Department of Ecology pertaining to the Stella-Jones (former J.H. Baxter) woodtreating facility located across the street to the north of the subject property. Known PCP and TPH-D contamination in groundwater is present as a result of historic operations of the J.H. Baxter facility. However, the areas affected by PCP contamination lie 1,800 feet or more to the north of the subject property, and have migrated with the direction of groundwater flow toward the northwest. The areas of the Stella-Jones (Baxter) facility that are proximate to the Bayliner property have been used only for storage of untreated wood poles. PCP has not been detected in the Stella-Jones monitoring wells closest to the Bayliner facility, and no PCP was detected in any of the soil or groundwater samples collected during this assessment from the Bayliner borings. There is no indication that the Bayliner property has been adversely impacted from the historic Stella-Jones (Baxter) operations.

APPENDIX A

FIGURES



Quadrangle Location Map

Job #: 190402025

Site Location Map

Bayliner Marine
17825 59th Avenue NE
Arlington, Washington 98223

Stantec

7730 SW Mohawk St.
Tualatin, Oregon
97062

DATE: 06/17/09	*Source: USGS Smokey Point, WA Quad 1981*	*Scale 1:25000*	*Figure: 1*
DWN: Paula Fitzgerald	*APPR: Amy Zach*		*Revision: 0*

Arlington Airport

59th Avenue NE

NORTH

Jet City Equipment Rental

Anchor Self Storage

Undeveloped Land

Cook Investments

Parking Lot

Office 9

Office 6

Office 5

1

12

12A

16

Hazardous Material Storage

Pool

10

7

2

17

Maintenance Shop

8

3

11

14

Pool

4

Resin Room

Aqua Wash Waste

180th Street NE

Campbell/Neilson Auto Wrecking

Cemetary

Undeveloped Land

Mobile Home Park

Undeveloped Land

Employee Parking

Boat Storage

Mold & Plug Storage

Manufacturing Facility

Former Manufacturing Building

SB-56

SB-55

SB-54

SB-53

Stormwater Infiltration Gallery

Former Wood Waste Landfill

Approximate PCP Plume Area

SB-52

MW-14

(Parcel B Untreated Pole Storage)

(Parcel A Wood Treatment Facility)

STELLA JONES (FORMER J.H. BAXTER) WOODTREATING

Stormwater Treatment Building

SB-58

SB-57

MW-4

Burlington Northern Railroad

67th Avenue NE

Residential Neighborhood

Key Code

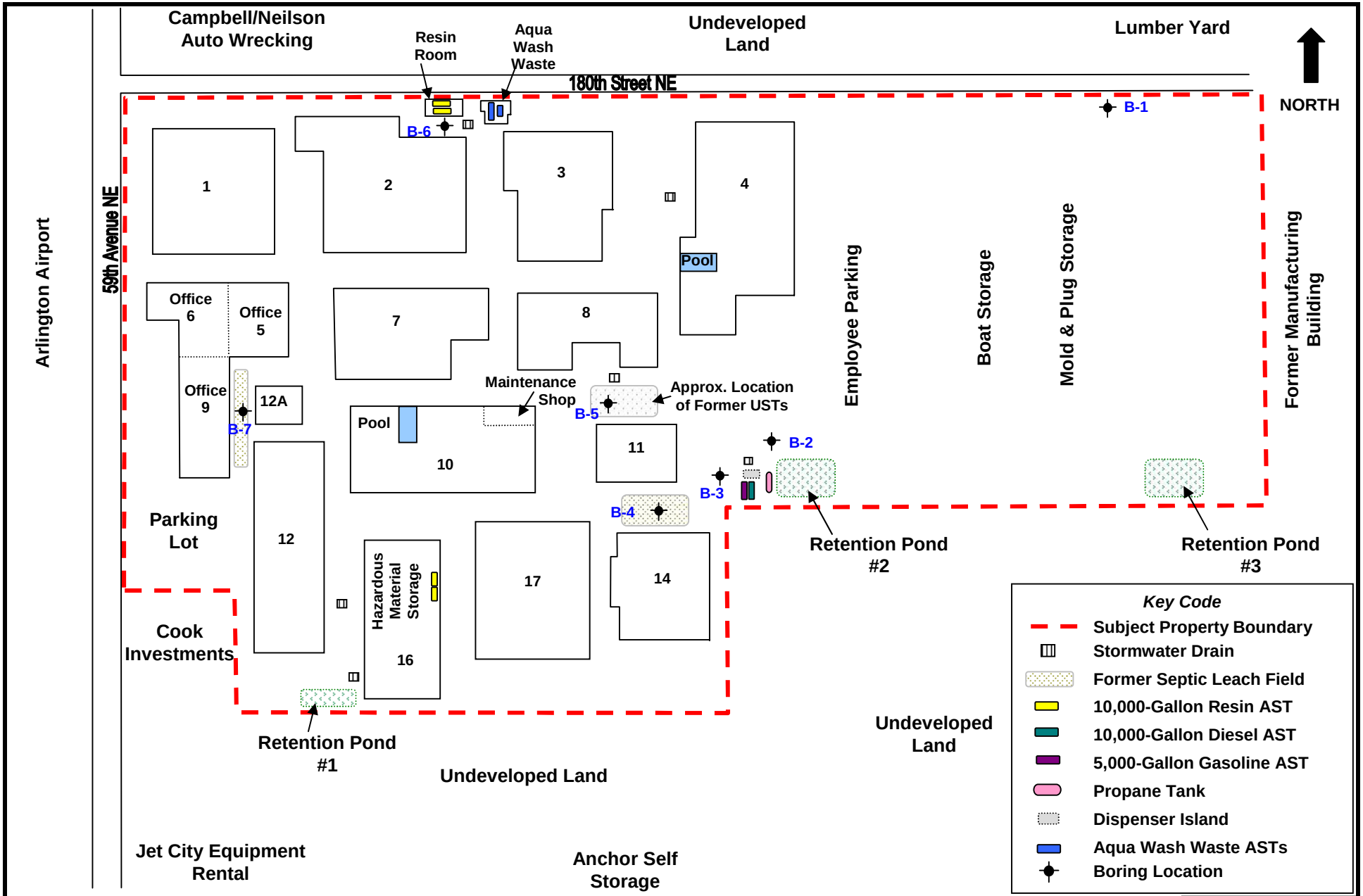
- Subject Property Boundary
- Stormwater Drain
- Former Septic Leach Field
- 10,000-Gallon Resin AST
- 10,000-Gallon Diesel AST
- 5,000-Gallon Gasoline AST
- Propane Tank
- Dispenser Island
- Aqua Wash Waste ASTs
- Soil Boring & Monitoring Well

Drawn By: PF	Checked By: RS	PROJECT NO 190402025	FIGURE 2
Dwg Date 06/17/09	Revision 0	Bayliner Marine 17825 59th Avenue NE Arlington, Washington 98223	Title: Site and Vicinity Map
Client: Brunswick Corporation			Scale: None

Stantec

7730 SW Mohawk St.
Tualatin, Oregon
97062

Stantec



Drawn By: PF	Cked By: RS	PROJECT NO. 190402025	Figure 3	Stantec 7730 SW Mohawk Street Tualatin, Oregon 97062
Dwg Date 6/17/09	Revision 0	Bayliner Marine 17825 59th Avenue NE Arlington, Washington 98223	Title: Boring Location Map	
Client: Brunswick Corporation			Scale: None	

APPENDIX B

TABLES

TABLE 1
SUMMARY OF LABORATORY ANALYTICAL RESULTS
BAYLINER MARINE - ARLINGTON, WASHINGTON

VOCs AND SVOCs IN SOIL

Sample #	*Sample Date*	*Sample Depth (feet bgs)*[1]	*VOCs*[2] *(mg/kg)*[3]	*SVOCs*[4] *(mg/kg)*	*MTCA Method A Cleanup Level*[5] *(mg/kg)*	*US EPA Regional Risk-Based Screening Level*[6] *(mg/kg)*
B-1-15	5/20/09	15	PCE[7] 0.0036 All Others BDL[9]	PCP[8] BDL All Others BDL	PCE 0.05	PCE 0.57
B-2-15	5/20/09	15	PCE 0.0041 All Others BDL	PCP BDL All Others BDL	PCE 0.05	PCE 0.57
B-3-15	5/21/09	15	PCE 0.0075 All Others BDL	PCP BDL All Others BDL	PCE 0.05	PCE 0.57
B-4-15	5/21/09	15	PCE 0.0049 All Others BDL	PCP BDL All Others BDL	PCE 0.05	PCE 0.57
B-5-15	5/21/09	15	PCE 0.011 All Others BDL	PCP BDL All Others BDL	PCE 0.05	PCE 0.57
B-6-5	5/21/09	5	Acetone 0.082 PCE 0.044 Styrene 0.0026	Dimethyl Phthalate 1.3 PCP BDL All Others BDL	Acetone NE[10] Dimethly Phthalate NE PCE 0.05 Styrene NE	Acetone 61,000 Dimethyl Phthalate NE PCE 0.57 Styrene 6,500
B-7-15	5/21/09	15	All BDL	PCP BDL All Others BDL	N/A	N/A

NOTES:

1 Sample depth in feet below ground surface (bgs)
2 VOCs = Volatile Organic Compounds by USEPA Method 8260 B
3 Mg/kg = milligrams per kilogram
4 SVOCs = Semi-Volatile Organic Compounds by USEPA Method 8270 C
5 Method A Soil Cleanup Level for Unrestricted Land Use established under Washington Model Toxics Cleanup Act (MTCA)
6 Regional Risk Based-Screening Level Table Master published by US Environmental Protection Agency
7 PCE = Tetrachloroethylene (aka perchlorethylene)
8 PCP = Pentachlorophenol
9 BDL = Below Detection Limit for the laboratory analytical method
10 MTCA Method A Cleanup Level is not established for this compound

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
BAYLINER MARINE – ARLINGTON, WASHINGTON

RCRA METALS IN SOIL

Sample #	*Sample Date*	*Sample Depth (feet bgs)*[1]	*Arsenic*	*Barium*	*Cadmium*	*Chromium*	*Lead*	*Mercury*	*Selenium*	*Silver*	*MTCA Method A Cleanup Level*[3]	*US EPA Regional Risk-Based Screening Level*[4]
			(all values in mg/kg)[2]									
B-1-15	5/20/09	15	BDL[5]	52	0.89	Total 32 Cr III 30 Cr VI BDL	3.2	0.025	BDL	BDL	Arsenic 20 Barium NE[6] Cadmium 2 Chromium-Total NE Chromium III 2,000 Chromium VI 19 Lead 250 Mercury 2 Selenium NE Silver NE	Arsenic 0.39 Barium 15,000 Cadmium 70 Chromium-Total 280 Chromium III 120,000 Chromium VI 39 Lead 400 Mercury 4.3 Selenium 390 Silver 390
B-2-15	5/20/09	15	BDL	58	0.66	Total 29 Cr III 25 Cr VI BDL	2.7	BDL	BDL	BDL		
B-3-15	5/21/09	15	BDL	43	0.92	Total 61 Cr III 55 Cr VI BDL	3.2	0.022	BDL	BDL		
B-4-15	5/21/09	15	BDL	55	0.8	Total 38 Cr III 36 Cr VI BDL	3.2	BDL	BDL	BDL		
B-5-15	5/21/09	15	BDL	49	1.2	Total 140 Cr III 140 Cr VI BDL	3.8	BDL	BDL	BDL		
B-6-5	5/21/09	5	BDL	56	0.93	Total 33 Cr III 31 Cr VI BDL	7.2	0.028	BDL	BDL		
B-7-15	5/21/09	15	1.4	60	0.38	Total 45 Cr III NA Cr VI NA	3.4	BDL	BDL	1.2		

NOTES:

1 Sample depth in feet below ground surface (bgs)
2 Mg/kg = milligrams per kilogram
3 Method A Soil Cleanup Level for Unrestricted Land Use established under Washington Model Toxics Cleanup Act (MTCA)
4 Regional Risk Based-Screening Level Table Master published by US Environmental Protection Agency
5 BDL = Below Detection Limit of laboratory analytical method
6 MTCA Method A Cleanup Level is not established for this compound

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
BAYLINER MARINE – ARLINGTON, WASHINGTON

VOCs AND SVOCs IN POND SEDIMENT

Sample #	*Sample Date*	*VOCs*[1]	*SVOCs*[3]	*MTCA Method A Cleanup Level*[4]	*US EPA Regional Risk-Based Screening Level*[5]
		(all values in mg/kg)[2]			
RP-1	5/22/09	Acetone 0.14 All Others BDL[6]	All BDL	Acetone NE[7]	Acetone 61,000
RP-2	5/22/09	All BDL	All BDL	- - -	- - -
RP-3	5/22/09	Acetone 0.056 All Others BDL	All BDL	Acetone NE	Acetone 61,000
Trip Blank	5/22/09	All BDL	N/A	- - -	- - -

NOTES:

1 VOCs = Volatile Organic Compounds by USEPA Method 8260 B
2 Mg/kg = milligrams per kilogram
3 SVOCs = Semi-Volatile Organic Compounds by USEPA Method 8270 C
4 Method A Soil Cleanup Level for Unrestricted Land Use established under Washington Model Toxics Cleanup Act (MTCA)
5 Regional Risk Based-Screening Level Table Master published by US Environmental Protection Agency
6 BDL = Below Detection Limit for the laboratory analytical method
7 MTCA Method A Cleanup Level is not established for this compound

TABLE 4
SUMMARY OF LABORATORY ANALYTICAL RESULTS
BAYLINER MARINE – ARLINGTON, WASHINGTON

RCRA METALS IN POND SEDIMENT

Sample #	*Sample Date*	*Arsenic*	*Barium*	*Cadmium*	*Chromium*	*Lead*	*Mercury*	*Selenium*	*Silver*	*MTCA Method A Cleanup Level*[3]	*US EPA Regional Risk-Based Screening Level*[4]
		(all values in mg/kg)[2]									
RP-1	5/22/09	13	63	1.8	Total 80 Cr III 40 Cr VI BDL	160	0.12	BDL[5]	1.8	Arsenic 20 Barium NE[6] Cadmium 2 Chromium-Total NE Chromium III 2000 Chromium VI 19 Lead 250 Mercury 2 Selenium NE Silver NE	Arsenic 0.39 Barium 15,000 Cadmium 70 Chromium-Total 280 Chromium III 120,000 Chromium VI 39 Lead 400 Mercury 4.3 Selenium 390 Silver 390
RP-2	5/22/09	3.4	52	0.59	Total 47 Cr III 33 Cr VI BDL	17	0.037	BDL	1.2		
RP-3	5/22/09	2.7	56	0.49	Total 42 Cr III 38 Cr VI BDL	10	0.025	BDL	1.2		

NOTES:

1 Sample depth in feet below ground surface (bgs)
2 Mg/kg = milligrams per kilogram
3 Method A Soil Cleanup Level for Unrestricted Land Use established under Washington Model Toxics Cleanup Act (MTCA)
4 Regional Risk Based-Screening Level Table Master published by US Environmental Protection Agency
5 BDL = Below Detection Limit of laboratory analytical method
6 MTCA Method A Cleanup Level is not established for this compound

TABLE 5
SUMMARY OF LABORATORY ANALYTICAL RESULTS
BAYLINER MARINE – ARLINGTON, WASHINGTON

VOCs AND SVOCs IN GROUNDWATER

Sample #	*Sample Date*	*Depth to Water (feet bgs)*[1]	*VOCs*[2] *(µg/L)*[3]	*SVOCs*[4] *(µg/L)*	*MTCA Method A Cleanup Level*[5] *(µg/L)*
B-1	5/20/09	18	All BDL[8]	PCP[7] BDL All Others BDL	N/A
B-2	5/21/09	18	PCE[6] 1.5 All Others BDL	PCP BDL All Others BDL	PCE 5
B-3	5/21/09	18	PCE 3.3 All Others BDL	PCP BDL All Others BDL	PCE 5
B-4	**5/21/09**	**18**	**PCE 42** All Others BDL	PCP BDL All Others BDL	PCE 5
B-5	**5/21/09**	**18**	**PCE 31** All Others BDL	PCP BDL All Others BDL	PCE 5
B-6	**5/21/09**	**18**	**PCE 18**	PCP BDL All Others BDL	PCE 5
B-7	5/21/09	18	All BDL	PCP BDL All Others BDL	N/A

NOTES:

Values in bold font exceed applicable cleanup guidelines

1 Depth to groundwater in feet below ground surface (bgs)
2 VOCs = Volatile Organic Compounds by USEPA Method 8260 B
3 µg/L = micrograms per liter
4 SVOCs = Semi-Volatile Organic Compounds by USEPA Method 8270 C
5 Method A Groundwater Cleanup Level established under Washington Model Toxics Cleanup Act (MTCA)
6 PCE = Tetrachloroethylene (aka perchlorethylene)
7 PCP = Pentachlorophenol
8 BDL = Below Detection Limit for the laboratory analytical method
9 MTCA Method A Cleanup Level is not established for this compound

TABLE 6
SUMMARY OF LABORATORY ANALYTICAL RESULTS
BAYLINER MARINE – ARLINGTON, WASHINGTON

RCRA METALS IN GROUNDWATER

Sample #	*Sample Date*	*Depth to Water (feet bgs)*[1]	*Arsenic*	*Barium*	*Cadmium*	*Chromium (Total)*	*Lead*	*Mercury*	*Selenium*	*Silver*	*MTCA Method A Cleanup Level*[3]	*US EPA Regional Risk-Based Screening Level*[4]
			(all values in µg/L)[2]									
B-1	**5/20/09**	**18**	BDL[4]	480	BDL	43	**20**	0.21	BDL	BDL	Arsenic 5 Barium NE Cadmium 5 Chromium (Total) 50 Lead 15 Mercury 2 Selenium NE[5] Silver NE	Arsenic 0.045 Barium 7,300 Cadmium 18 Chromium (Total) 100 Lead 15 Mercury 0.57 Selenium 180 Silver 180
B-2	5/21/09	18	BDL	91	BDL	20	6.9	BDL	BDL	BDL		
B-3	5/21/09	18	BDL	70	BDL	12	7.1	BDL	BDL	BDL		
B-4	5/21/09	18	BDL	190	BDL	38	7.6	BDL	BDL	BDL		
B-5	**5/21/09**	**18**	**24**	91	BDL	14	BDL	BDL	22	BDL		
B-6	5/21/09	18	BDL	71	BDL	BDL	BDL	BDL	BDL	BDL		
B-7	5/21/09	18	BDL	82	BDL	32	6.5	BDL	BDL	BDL		

NOTES:

Values shown in bold font exceed applicable cleanup guidelines

1 Depth to groundwater in feet below ground surface (bgs)
2 µg/L = micrograms per liter
3 Method A Groundwater Cleanup Level established under Washington Model Toxics Cleanup Act (MTCA)
4 BDL = Below Detection Limit of laboratory analytical method
5 MTCA Method A Cleanup Level is not established for this compound

APPENDIX C

BORING LOGS

PROJECT: **US Marine - Bayliner**
LOCATION: **Arlington, WA**
PROJECT NUMBER: **190402025.200.0002**

WELL / PROBEHOLE / BOREHOLE NO: **B-1** PAGE 1 OF 1

DRILLING: STARTED **5/20/09** COMPLETED: **5/20/09**
INSTALLATION: STARTED **5/20/09** COMPLETED: **5/20/09**
DRILLING COMPANY: **Cascade Drilling, Inc.**
DRILLING EQUIPMENT: **Hollow Stem Auger**
DRILLING METHOD: **Hammer**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **18 5/20/09** BOREHOLE DEPTH (ft): **25.0**
STATIC DTW (ft): **NE** WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **6.25**
LOGGED BY: **ACZ** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Fill material, gravel							
		SW	SW; Sand, olive gray, trace silt, well sorted sand, medium dense, moist, no odor, no staining							
9 35 5					-- --		4 14 18	0.0	5	
9 46 10		SW	SW; Sand, olive gray, trace gravel, well sorted sand, medium dense, moist, no odor, no staining		-- --		12 19 20	0.0	10	Soil boring back filled with bentonite.
9 56 15		SW	SW; Sand, olive gray, trace gravel, well sorted sand, medium dense, moist to wet, no odor, no staining		9 56 B-1-15		5 21 24	0.0	15	
10 05 20		SW	SW; Sand, olive gray, trace gravel, well sorted sand, medium dense, saturated, no odor, no staining		-- --		20 24 25	0.0	20	
25			Groundwater sample collected. Hole terminated at 25 feet.						25	

GEO FORM 304 BRUNSICK - ARLINGTON, WA.GPJ SECOR INTL.GDT 6/5/09

PROJECT: **US Marine - Bayliner**
LOCATION: **Arlington, WA**
PROJECT NUMBER: **190402025.200.0002**

WELL / PROBEHOLE / BOREHOLE NO: **B-2** PAGE 1 OF 1

Stantec

DRILLING: STARTED **5/20/09** COMPLETED: **5/21/09**
INSTALLATION: STARTED **5/20/09** COMPLETED: **5/21/09**
DRILLING COMPANY: **Cascade Drilling, Inc.**
DRILLING EQUIPMENT: **Hollow Stem Auger**
DRILLING METHOD: **Hammer**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **25.0**
STATIC DTW (ft): **NE** WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **6.25**
LOGGED BY: **ACZ** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Concrete							
		SW	SW; Sand, olive gray, trace gravel, well sorted sand, medium dense, moist, no odor, no staining							
11 53 5					11 53 --		13 16 17	0.0	5	
11 58 10					11 58 --		17 24 26	0.0	10	Soil boring back filled with bentonite.
1200 15		SW	SW; Sand, olive gray, trace gravel, well sorted sand, medium dense, moist to wet, no odor, no staining		12 00 B-2-15		16 17 18	0.0	15	
12 05 20		SW	SW; Sand, olive gray, trace gravel, well sorted sand, medium dense, saturated, no odor, no staining		12 05 --		18 25 31	0.0	20	
25			Groundwater sample collected. Hole terminated at 25 feet.						25	

GEO FORM 304 BRUNSICK - ARLINGTON, WA.GPJ SECOR INTL.GDT 6/5/09

PROJECT: **US Marine - Bayliner**
LOCATION: **Arlington, WA**
PROJECT NUMBER: **190402025.200.0002**

WELL / PROBEHOLE / BOREHOLE NO: **B-3** PAGE 1 OF 1

Stantec

DRILLING: STARTED **5/21/09** COMPLETED: **5/21/09**
INSTALLATION: STARTED **5/21/09** COMPLETED: **5/21/09**
DRILLING COMPANY: **Cascade Drilling, Inc.**
DRILLING EQUIPMENT: **Hollow Stem Auger**
DRILLING METHOD: **Hammer**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **18 5/21/09** BOREHOLE DEPTH (ft): **25.0**
STATIC DTW (ft): **NE** WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **6.25**
LOGGED BY: **ACZ** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Concrete							
		SW	SW; Sand, olive gray, trace gravel, well sorted sand, medium dense, moist, no odor, no staining							
8 24 5					8 24 --		8 10 11	0.0	5	
8 29 10					8 29 --		16 20 21	0.0	10	Soil boring back filled with bentonite.
8 34 15		SW	SW; Sand, olive gray, trace gravel, well sorted sand, medium dense, moist to wet, no odor, no staining		8 34 B-3-15		14 20 22	0.0	15	
8 39 20		SW	SW; Sand, olive gray, trace gravel, well sorted sand, medium dense, saturated, no odor, no staining		8 39 --		16 22 23	0.0	20	
25			Groundwater sample collected. Hole terminated at 25 feet.						25	

GEO FORM 304 BRUNSICK - ARLINGTON, WA.GPJ SECOR INTL.GDT 6/5/09

PROJECT: **US Marine - Bayliner**
LOCATION: **Arlington, WA**
PROJECT NUMBER: **190402025.200.0002**

WELL / PROBEHOLE / BOREHOLE NO: **B-4** PAGE 1 OF 1

Stantec

DRILLING: STARTED **5/21/09** COMPLETED: **5/21/09**
INSTALLATION: STARTED **5/21/09** COMPLETED: **5/21/09**
DRILLING COMPANY: **Cascade Drilling, Inc.**
DRILLING EQUIPMENT: **Hollow Stem Auger**
DRILLING METHOD: **Hammer**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **18 5/21/09** BOREHOLE DEPTH (ft): **25.0**
STATIC DTW (ft): **NE** WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **6.25**
LOGGED BY: **ACZ** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Concrete							
		SW	SW; Sand, olive gray, trace gravel, well sorted sand, medium dense, moist, no odor, no staining							
10 00 5					10 00 --		5 5 6	0.0	5	
10 05 10					10 05 --		18 20 23	0.0	10	Soil boring back filled with bentonite.
10 09 15		SW	SW; Sand, olive gray, trace gravel, well sorted sand, medium dense, moist to wet, no odor, no staining		10 09 B-4-15		22 25 28	0.0	15	
10 12 20		SW	SW; Sand, olive gray, trace gravel, well sorted sand, medium dense, saturated, no odor, no staining		10 12 --		15 22 28	0.0	20	
25			Groundwater sample collected. Hole terminated at 25 feet.						25	

GEO FORM 304 BRUNSICK - ARLINGTON, WA.GPJ SECOR INTL.GDT 6/5/09

PROJECT: **US Marine - Bayliner**
LOCATION: **Arlington, WA**
PROJECT NUMBER: **190402025.200.0002**

WELL / PROBEHOLE / BOREHOLE NO: **B-5** PAGE 1 OF 1

DRILLING: STARTED **5/21/09** COMPLETED: **5/21/09**
INSTALLATION: STARTED **5/21/09** COMPLETED: **5/21/09**
DRILLING COMPANY: **Cascade Drilling, Inc.**
DRILLING EQUIPMENT: **Hollow Stem Auger**
DRILLING METHOD: **Hammer**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **18 5/21/09** BOREHOLE DEPTH (ft): **25.0**
STATIC DTW (ft): **NE** WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **6.25**
LOGGED BY: **ACZ** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Concrete							
		SW	SW; Sand, olive gray, trace gravel, well sorted sand, medium dense, moist, no odor, no staining							
11 20 5					11 20 --		5 7 8	0.0	5	
11 24 10					11 24 --		13 26 20	0.0	10	Soil boring back filled with bentonite.
11 27 15		SW	SW; Sand, olive gray, trace gravel, well sorted sand, medium dense, moist to wet, no odor, no staining		11 27 B-5-15		18 22 26	0.0	15	
11 32 20		SW	SW; Sand, olive gray, trace gravel, well sorted sand, medium dense, saturated, no odor, no staining		11 32 --		18 23 26	0.0	20	
25			Groundwater sample collected. Hole terminated at 25 feet.						25	

GEO FORM 304 BRUNSICK - ARLINGTON, WA.GPJ SECOR INTL.GDT 6/5/09

PROJECT: **US Marine - Bayliner**
LOCATION: **Arlington, WA**
PROJECT NUMBER: **190402025.200.0002**

WELL / PROBEHOLE / BOREHOLE NO: **B-6** PAGE 1 OF 1

DRILLING: STARTED **5/21/09** COMPLETED: **5/21/09**
INSTALLATION: STARTED **5/21/09** COMPLETED: **5/21/09**
DRILLING COMPANY: **Cascade Drilling, Inc.**
DRILLING EQUIPMENT: **Hollow Stem Auger**
DRILLING METHOD: **Hammer**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft):
EASTING (ft):
LATITUDE:
LONGITUDE:
GROUND ELEV (ft):
TOC ELEV (ft):
INITIAL DTW (ft): **18** **5/21/09**
BOREHOLE DEPTH (ft): **25.0**
STATIC DTW (ft): **NE**
WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in): **---**
BOREHOLE DIAMETER (in): **6.25**
LOGGED BY: **ACZ**
CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Concrete							
		SW	SW; Sand, olive gray, trace gravel, well sorted sand, medium dense, moist, no odor, no staining							
12 52 5					12 52 B-6-5		2 3 4	1.2	5	
12 58 10					12 58 --		16 17 18	0.0	10	Soil boring back filled with bentonite.
13 05 15		SW	SW; Sand, olive gray, trace gravel, well sorted sand, medium dense, moist to wet, no odor, no staining		13 05 --		12 12 13	0.0	15	
13 11 20		SW	SW; Sand, olive gray, trace gravel, well sorted sand, medium dense, saturated, no odor, no staining		13 11 --		12 16 18	0.0	20	
25			Groundwater sample collected. Hole terminated at 25 feet.						25	

GEO FORM 304 BRUNSICK - ARLINGTON, WA.GPJ SECOR INTL.GDT 6/5/09

PROJECT: **US Marine - Bayliner**
LOCATION: **Arlington, WA**
PROJECT NUMBER: **190402025.200.0002**

WELL / PROBEHOLE / BOREHOLE NO: **B-7** PAGE 1 OF 1

DRILLING: STARTED **5/21/09** COMPLETED: **5/21/09**
INSTALLATION: STARTED **5/21/09** COMPLETED: **5/21/09**
DRILLING COMPANY: **Cascade Drilling, Inc.**
DRILLING EQUIPMENT: **Hollow Stem Auger**
DRILLING METHOD: **Hammer**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft):
EASTING (ft):
LATITUDE:
LONGITUDE:
GROUND ELEV (ft):
TOC ELEV (ft):
INITIAL DTW (ft): **18** **5/21/09**
BOREHOLE DEPTH (ft): **25.0**
STATIC DTW (ft): **NE**
WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in): **---**
BOREHOLE DIAMETER (in): **6.25**
LOGGED BY: **ACZ**
CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Concrete							
		SW	SW; Sand, olive gray, trace gravel, well sorted sand, medium dense, moist, no odor, no staining							
15 35 5					15 35 --		8 10 13	0.0	5	
15 40 10					15 40 --		18 23 29	0.0	10	Soil boring back filled with bentonite.
15 46 15		SW	SW; Sand, olive gray, trace gravel, well sorted sand, medium dense, moist to wet, no odor, no staining		15 46 B-7-15		20 28 30	0.0	15	
15 50 20		SW	SW; Sand, olive gray, trace gravel, well sorted sand, medium dense, saturated, no odor, no staining		15 50 --		23 25 27	0.0	20	
25			Groundwater sample collected. Hole terminated at 25 feet.						25	

GEO FORM 304 BRUNSICK - ARLINGTON, WA.GPJ SECOR INTL.GDT 6/5/09

APPENDIX D

LABORATORY ANALYTICAL REPORTS

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street

Tualatin, OR 97062

Report Summary

Thursday June 04, 2009

Report Number: L404086
Samples Received: 05/22/09
Client Project: 190402025.200.0001

Description: US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

T. Alan Harvill, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-01

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-1-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/20/09 09:56

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	94.0		%	2540G	05/28/09	1
Mercury	0.025	0.021	mg/kg	7471	05/26/09	1
Arsenic	BDL	5.3	mg/kg	6010B	06/03/09	5
Barium	52.	0.26	mg/kg	6010B	06/02/09	1
Cadmium	0.89	0.26	mg/kg	6010B	06/02/09	1
Chromium	32.	0.53	mg/kg	6010B	06/02/09	1
Lead	3.2	0.26	mg/kg	6010B	06/02/09	1
Selenium	BDL	2.1	mg/kg	6010B	06/04/09	2
Silver	BDL	0.53	mg/kg	6010B	06/02/09	1
Volatile Organics						
Acetone	BDL	0.053	mg/kg	8260B	05/26/09	1
Acrylonitrile	BDL	0.011	mg/kg	8260B	05/26/09	1
Benzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Bromobenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
Bromoform	BDL	0.0011	mg/kg	8260B	05/26/09	1
Bromomethane	BDL	0.0053	mg/kg	8260B	05/26/09	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	05/26/09	1
Chlorobenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
Chloroethane	BDL	0.0053	mg/kg	8260B	05/26/09	1
2-Chloroethyl vinyl ether	BDL	0.053	mg/kg	8260B	05/26/09	1
Chloroform	BDL	0.0053	mg/kg	8260B	05/26/09	1
Chloromethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	05/26/09	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,2-Dibromo-3-Chloropropane	BDL	0.0053	mg/kg	8260B	05/26/09	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
Dibromomethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Dichlorodifluoromethane	BDL	0.0053	mg/kg	8260B	05/26/09	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	05/26/09	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	05/26/09	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	05/26/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted

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Est. 1970

REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-01

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-1-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/20/09 09:56

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	05/26/09	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	05/26/09	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	05/26/09	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	05/26/09	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	05/26/09	1
Ethylbenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Hexachloro-1,3-Butadiene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	05/26/09	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260B	05/26/09	1
Methylene Chloride	BDL	0.0053	mg/kg	8260B	05/26/09	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	05/26/09	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	05/26/09	1
Naphthalene	BDL	0.0053	mg/kg	8260B	05/26/09	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Styrene	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
Tetrachloroethene	0.0036	0.0011	mg/kg	8260B	05/26/09	1
Toluene	BDL	0.0053	mg/kg	8260B	05/26/09	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0011	mg/kg	8260B	05/26/09	1
Trichloroethene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Trichlorofluoromethane	BDL	0.0053	mg/kg	8260B	05/26/09	1
1,2,3-Trichloropropane	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Vinyl chloride	BDL	0.0011	mg/kg	8260B	05/26/09	1
Xylenes, Total	BDL	0.0032	mg/kg	8260B	05/26/09	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	05/26/09	1
Dibromofluoromethane	93.4		% Rec.	8260B	05/26/09	1
4-Bromofluorobenzene	97.2		% Rec.	8260B	05/26/09	1
Base/Neutral Extractables						
Acenaphthene	BDL	0.35	mg/kg	8270C	05/28/09	1
Acenaphthylene	BDL	0.35	mg/kg	8270C	05/28/09	1
Anthracene	BDL	0.35	mg/kg	8270C	05/28/09	1
Benzidine	BDL	0.35	mg/kg	8270C	05/28/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

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Est. 1970

REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-01

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-1-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/20/09 09:56

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Benzo(a)anthracene	BDL	0.35	mg/kg	8270C	05/28/09	1
Benzo(b)fluoranthene	BDL	0.35	mg/kg	8270C	05/28/09	1
Benzo(k)fluoranthene	BDL	0.35	mg/kg	8270C	05/28/09	1
Benzo(g,h,i)perylene	BDL	0.35	mg/kg	8270C	05/28/09	1
Benzo(a)pyrene	BDL	0.35	mg/kg	8270C	05/28/09	1
Bis(2-chlorethoxy)methane	BDL	0.35	mg/kg	8270C	05/28/09	1
Bis(2-chloroethyl)ether	BDL	0.35	mg/kg	8270C	05/28/09	1
Bis(2-chloroisopropyl)ether	BDL	0.35	mg/kg	8270C	05/28/09	1
4-Bromophenyl-phenylether	BDL	0.35	mg/kg	8270C	05/28/09	1
2-Chloronaphthalene	BDL	0.35	mg/kg	8270C	05/28/09	1
4-Chlorophenyl-phenylether	BDL	0.35	mg/kg	8270C	05/28/09	1
Chrysene	BDL	0.35	mg/kg	8270C	05/28/09	1
Dibenz(a,h)anthracene	BDL	0.35	mg/kg	8270C	05/28/09	1
3,3-Dichlorobenzidine	BDL	0.35	mg/kg	8270C	05/28/09	1
2,4-Dinitrotoluene	BDL	0.35	mg/kg	8270C	05/28/09	1
2,6-Dinitrotoluene	BDL	0.35	mg/kg	8270C	05/28/09	1
Fluoranthene	BDL	0.35	mg/kg	8270C	05/28/09	1
Fluorene	BDL	0.35	mg/kg	8270C	05/28/09	1
Hexachlorobenzene	BDL	0.35	mg/kg	8270C	05/28/09	1
Hexachloro-1,3-butadiene	BDL	0.35	mg/kg	8270C	05/28/09	1
Hexachlorocyclopentadiene	BDL	0.35	mg/kg	8270C	05/28/09	1
Hexachloroethane	BDL	0.35	mg/kg	8270C	05/28/09	1
Indeno(1,2,3-cd)pyrene	BDL	0.35	mg/kg	8270C	05/28/09	1
Isophorone	BDL	0.35	mg/kg	8270C	05/28/09	1
Naphthalene	BDL	0.35	mg/kg	8270C	05/28/09	1
Nitrobenzene	BDL	0.35	mg/kg	8270C	05/28/09	1
n-Nitrosodimethylamine	BDL	0.35	mg/kg	8270C	05/28/09	1
n-Nitrosodiphenylamine	BDL	0.35	mg/kg	8270C	05/28/09	1
n-Nitrosodi-n-propylamine	BDL	0.35	mg/kg	8270C	05/28/09	1
Phenanthrene	BDL	0.35	mg/kg	8270C	05/28/09	1
Benzylbutyl phthalate	BDL	0.35	mg/kg	8270C	05/28/09	1
Bis(2-ethylhexyl)phthalate	BDL	0.35	mg/kg	8270C	05/28/09	1
Di-n-butyl phthalate	BDL	0.35	mg/kg	8270C	05/28/09	1
Diethyl phthalate	BDL	0.35	mg/kg	8270C	05/28/09	1
Dimethyl phthalate	BDL	0.35	mg/kg	8270C	05/28/09	1
Di-n-octyl phthalate	BDL	0.35	mg/kg	8270C	05/28/09	1
Pyrene	BDL	0.35	mg/kg	8270C	05/28/09	1
1,2,4-Trichlorobenzene	BDL	0.35	mg/kg	8270C	05/28/09	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	0.35	mg/kg	8270C	05/28/09	1
2-Chlorophenol	BDL	0.35	mg/kg	8270C	05/28/09	1
2,4-Dichlorophenol	BDL	0.35	mg/kg	8270C	05/28/09	1
2,4-Dimethylphenol	BDL	0.35	mg/kg	8270C	05/28/09	1
4,6-Dinitro-2-methylphenol	BDL	0.35	mg/kg	8270C	05/28/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-01

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-1-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/20/09 09:56

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
2,4-Dinitrophenol	BDL	0.35	mg/kg	8270C	05/28/09	1
2-Nitrophenol	BDL	0.35	mg/kg	8270C	05/28/09	1
4-Nitrophenol	BDL	0.35	mg/kg	8270C	05/28/09	1
Pentachlorophenol	BDL	0.35	mg/kg	8270C	05/28/09	1
Phenol	BDL	0.35	mg/kg	8270C	05/28/09	1
2,4,6-Trichlorophenol	BDL	0.35	mg/kg	8270C	05/28/09	1
Surrogate Recovery						
Nitrobenzene-d5	52.8		% Rec.	8270C	05/28/09	1
2-Fluorobiphenyl	71.4		% Rec.	8270C	05/28/09	1
p-Terphenyl-d14	88.0		% Rec.	8270C	05/28/09	1
Phenol-d5	62.3		% Rec.	8270C	05/28/09	1
2-Fluorophenol	61.0		% Rec.	8270C	05/28/09	1
2,4,6-Tribromophenol	88.1		% Rec.	8270C	05/28/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 06/04/09 11:10 Revised: 06/04/09 15:24

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Mt. Juliet, TN 37122
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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-02

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-2-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/20/09 12:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	85.2		%	2540G	05/28/09	1
Mercury	BDL	0.023	mg/kg	7471	05/26/09	1
Arsenic	BDL	5.9	mg/kg	6010B	06/03/09	5
Barium	58.	0.29	mg/kg	6010B	06/02/09	1
Cadmium	0.66	0.29	mg/kg	6010B	06/02/09	1
Chromium	29.	0.59	mg/kg	6010B	06/02/09	1
Lead	2.7	0.29	mg/kg	6010B	06/02/09	1
Selenium	BDL	2.3	mg/kg	6010B	06/04/09	2
Silver	BDL	0.59	mg/kg	6010B	06/02/09	1
Volatile Organics						
Acetone	BDL	0.059	mg/kg	8260B	05/26/09	1
Acrylonitrile	BDL	0.012	mg/kg	8260B	05/26/09	1
Benzene	BDL	0.0012	mg/kg	8260B	05/26/09	1
Bromobenzene	BDL	0.0012	mg/kg	8260B	05/26/09	1
Bromodichloromethane	BDL	0.0012	mg/kg	8260B	05/26/09	1
Bromoform	BDL	0.0012	mg/kg	8260B	05/26/09	1
Bromomethane	BDL	0.0059	mg/kg	8260B	05/26/09	1
n-Butylbenzene	BDL	0.0012	mg/kg	8260B	05/26/09	1
sec-Butylbenzene	BDL	0.0012	mg/kg	8260B	05/26/09	1
tert-Butylbenzene	BDL	0.0012	mg/kg	8260B	05/26/09	1
Carbon tetrachloride	BDL	0.0012	mg/kg	8260B	05/26/09	1
Chlorobenzene	BDL	0.0012	mg/kg	8260B	05/26/09	1
Chlorodibromomethane	BDL	0.0012	mg/kg	8260B	05/26/09	1
Chloroethane	BDL	0.0059	mg/kg	8260B	05/26/09	1
2-Chloroethyl vinyl ether	BDL	0.059	mg/kg	8260B	05/26/09	1
Chloroform	BDL	0.0059	mg/kg	8260B	05/26/09	1
Chloromethane	BDL	0.0012	mg/kg	8260B	05/26/09	1
2-Chlorotoluene	BDL	0.0012	mg/kg	8260B	05/26/09	1
4-Chlorotoluene	BDL	0.0012	mg/kg	8260B	05/26/09	1
1,2-Dibromo-3-Chloropropane	BDL	0.0059	mg/kg	8260B	05/26/09	1
1,2-Dibromoethane	BDL	0.0012	mg/kg	8260B	05/26/09	1
Dibromomethane	BDL	0.0012	mg/kg	8260B	05/26/09	1
1,2-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	05/26/09	1
1,3-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	05/26/09	1
1,4-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	05/26/09	1
Dichlorodifluoromethane	BDL	0.0059	mg/kg	8260B	05/26/09	1
1,1-Dichloroethane	BDL	0.0012	mg/kg	8260B	05/26/09	1
1,2-Dichloroethane	BDL	0.0012	mg/kg	8260B	05/26/09	1
1,1-Dichloroethene	BDL	0.0012	mg/kg	8260B	05/26/09	1
cis-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260B	05/26/09	1
trans-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260B	05/26/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-02

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-2-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/20/09 12:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dichloropropane	BDL	0.0012	mg/kg	8260B	05/26/09	1
1,1-Dichloropropene	BDL	0.0012	mg/kg	8260B	05/26/09	1
1,3-Dichloropropane	BDL	0.0012	mg/kg	8260B	05/26/09	1
cis-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260B	05/26/09	1
trans-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260B	05/26/09	1
2,2-Dichloropropane	BDL	0.0012	mg/kg	8260B	05/26/09	1
Di-isopropyl ether	BDL	0.0012	mg/kg	8260B	05/26/09	1
Ethylbenzene	BDL	0.0012	mg/kg	8260B	05/26/09	1
Hexachloro-1,3-Butadiene	BDL	0.0012	mg/kg	8260B	05/26/09	1
Isopropylbenzene	BDL	0.0012	mg/kg	8260B	05/26/09	1
p-Isopropyltoluene	BDL	0.0012	mg/kg	8260B	05/26/09	1
2-Butanone (MEK)	BDL	0.012	mg/kg	8260B	05/26/09	1
Methylene Chloride	BDL	0.0059	mg/kg	8260B	05/26/09	1
4-Methyl-2-pentanone (MIBK)	BDL	0.012	mg/kg	8260B	05/26/09	1
Methyl tert-butyl ether	BDL	0.0012	mg/kg	8260B	05/26/09	1
Naphthalene	BDL	0.0059	mg/kg	8260B	05/26/09	1
n-Propylbenzene	BDL	0.0012	mg/kg	8260B	05/26/09	1
Styrene	BDL	0.0012	mg/kg	8260B	05/26/09	1
1,1,1,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260B	05/26/09	1
1,1,2,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260B	05/26/09	1
Tetrachloroethene	0.0041	0.0012	mg/kg	8260B	05/26/09	1
Toluene	BDL	0.0059	mg/kg	8260B	05/26/09	1
1,2,3-Trichlorobenzene	BDL	0.0012	mg/kg	8260B	05/26/09	1
1,2,4-Trichlorobenzene	BDL	0.0012	mg/kg	8260B	05/26/09	1
1,1,1-Trichloroethane	BDL	0.0012	mg/kg	8260B	05/26/09	1
1,1,2-Trichloroethane	BDL	0.0012	mg/kg	8260B	05/26/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0012	mg/kg	8260B	05/26/09	1
Trichloroethene	BDL	0.0012	mg/kg	8260B	05/26/09	1
Trichlorofluoromethane	BDL	0.0059	mg/kg	8260B	05/26/09	1
1,2,3-Trichloropropane	BDL	0.0012	mg/kg	8260B	05/26/09	1
1,2,4-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	05/26/09	1
1,3,5-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	05/26/09	1
Vinyl chloride	BDL	0.0012	mg/kg	8260B	05/26/09	1
Xylenes, Total	BDL	0.0035	mg/kg	8260B	05/26/09	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	05/26/09	1
Dibromofluoromethane	92.5		% Rec.	8260B	05/26/09	1
4-Bromofluorobenzene	94.5		% Rec.	8260B	05/26/09	1
Base/Neutral Extractables						
Acenaphthene	BDL	0.39	mg/kg	8270C	05/28/09	1
Acenaphthylene	BDL	0.39	mg/kg	8270C	05/28/09	1
Anthracene	BDL	0.39	mg/kg	8270C	05/28/09	1
Benzidine	BDL	0.39	mg/kg	8270C	05/28/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-02

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-2-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/20/09 12:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Benzo(a)anthracene	BDL	0.39	mg/kg	8270C	05/28/09	1
Benzo(b)fluoranthene	BDL	0.39	mg/kg	8270C	05/28/09	1
Benzo(k)fluoranthene	BDL	0.39	mg/kg	8270C	05/28/09	1
Benzo(g,h,i)perylene	BDL	0.39	mg/kg	8270C	05/28/09	1
Benzo(a)pyrene	BDL	0.39	mg/kg	8270C	05/28/09	1
Bis(2-chlorethoxy)methane	BDL	0.39	mg/kg	8270C	05/28/09	1
Bis(2-chloroethyl)ether	BDL	0.39	mg/kg	8270C	05/28/09	1
Bis(2-chloroisopropyl)ether	BDL	0.39	mg/kg	8270C	05/28/09	1
4-Bromophenyl-phenylether	BDL	0.39	mg/kg	8270C	05/28/09	1
2-Chloronaphthalene	BDL	0.39	mg/kg	8270C	05/28/09	1
4-Chlorophenyl-phenylether	BDL	0.39	mg/kg	8270C	05/28/09	1
Chrysene	BDL	0.39	mg/kg	8270C	05/28/09	1
Dibenz(a,h)anthracene	BDL	0.39	mg/kg	8270C	05/28/09	1
3,3-Dichlorobenzidine	BDL	0.39	mg/kg	8270C	05/28/09	1
2,4-Dinitrotoluene	BDL	0.39	mg/kg	8270C	05/28/09	1
2,6-Dinitrotoluene	BDL	0.39	mg/kg	8270C	05/28/09	1
Fluoranthene	BDL	0.39	mg/kg	8270C	05/28/09	1
Fluorene	BDL	0.39	mg/kg	8270C	05/28/09	1
Hexachlorobenzene	BDL	0.39	mg/kg	8270C	05/28/09	1
Hexachloro-1,3-butadiene	BDL	0.39	mg/kg	8270C	05/28/09	1
Hexachlorocyclopentadiene	BDL	0.39	mg/kg	8270C	05/28/09	1
Hexachloroethane	BDL	0.39	mg/kg	8270C	05/28/09	1
Indeno(1,2,3-cd)pyrene	BDL	0.39	mg/kg	8270C	05/28/09	1
Isophorone	BDL	0.39	mg/kg	8270C	05/28/09	1
Naphthalene	BDL	0.39	mg/kg	8270C	05/28/09	1
Nitrobenzene	BDL	0.39	mg/kg	8270C	05/28/09	1
n-Nitrosodimethylamine	BDL	0.39	mg/kg	8270C	05/28/09	1
n-Nitrosodiphenylamine	BDL	0.39	mg/kg	8270C	05/28/09	1
n-Nitrosodi-n-propylamine	BDL	0.39	mg/kg	8270C	05/28/09	1
Phenanthrene	BDL	0.39	mg/kg	8270C	05/28/09	1
Benzylbutyl phthalate	BDL	0.39	mg/kg	8270C	05/28/09	1
Bis(2-ethylhexyl)phthalate	BDL	0.39	mg/kg	8270C	05/28/09	1
Di-n-butyl phthalate	BDL	0.39	mg/kg	8270C	05/28/09	1
Diethyl phthalate	BDL	0.39	mg/kg	8270C	05/28/09	1
Dimethyl phthalate	BDL	0.39	mg/kg	8270C	05/28/09	1
Di-n-octyl phthalate	BDL	0.39	mg/kg	8270C	05/28/09	1
Pyrene	BDL	0.39	mg/kg	8270C	05/28/09	1
1,2,4-Trichlorobenzene	BDL	0.39	mg/kg	8270C	05/28/09	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	0.39	mg/kg	8270C	05/28/09	1
2-Chlorophenol	BDL	0.39	mg/kg	8270C	05/28/09	1
2,4-Dichlorophenol	BDL	0.39	mg/kg	8270C	05/28/09	1
2,4-Dimethylphenol	BDL	0.39	mg/kg	8270C	05/28/09	1
4,6-Dinitro-2-methylphenol	BDL	0.39	mg/kg	8270C	05/28/09	1

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-02

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-2-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/20/09 12:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
2,4-Dinitrophenol	BDL	0.39	mg/kg	8270C	05/28/09	1
2-Nitrophenol	BDL	0.39	mg/kg	8270C	05/28/09	1
4-Nitrophenol	BDL	0.39	mg/kg	8270C	05/28/09	1
Pentachlorophenol	BDL	0.39	mg/kg	8270C	05/28/09	1
Phenol	BDL	0.39	mg/kg	8270C	05/28/09	1
2,4,6-Trichlorophenol	BDL	0.39	mg/kg	8270C	05/28/09	1
Surrogate Recovery						
Nitrobenzene-d5	40.8		% Rec.	8270C	05/28/09	1
2-Fluorobiphenyl	54.9		% Rec.	8270C	05/28/09	1
p-Terphenyl-d14	63.4		% Rec.	8270C	05/28/09	1
Phenol-d5	48.5		% Rec.	8270C	05/28/09	1
2-Fluorophenol	47.9		% Rec.	8270C	05/28/09	1
2,4,6-Tribromophenol	69.3		% Rec.	8270C	05/28/09	1

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Reported: 06/04/09 11:10 Revised: 06/04/09 15:24

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1-800-767-5859
Fax (615) 758-5859

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-03

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-3-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 08:34

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	90.5		%	2540G	05/28/09	1
Mercury	0.022	0.022	mg/kg	7471	05/26/09	1
Arsenic	BDL	5.5	mg/kg	6010B	06/03/09	5
Barium	43.	0.28	mg/kg	6010B	06/02/09	1
Cadmium	0.92	0.28	mg/kg	6010B	06/02/09	1
Chromium	61.	0.55	mg/kg	6010B	06/02/09	1
Lead	3.2	0.28	mg/kg	6010B	06/02/09	1
Selenium	BDL	2.2	mg/kg	6010B	06/04/09	2
Silver	BDL	0.55	mg/kg	6010B	06/02/09	1
Volatile Organics						
Acetone	BDL	0.055	mg/kg	8260B	05/26/09	1
Acrylonitrile	BDL	0.011	mg/kg	8260B	05/26/09	1
Benzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Bromobenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
Bromoform	BDL	0.0011	mg/kg	8260B	05/26/09	1
Bromomethane	BDL	0.0055	mg/kg	8260B	05/26/09	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	05/26/09	1
Chlorobenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
Chloroethane	BDL	0.0055	mg/kg	8260B	05/26/09	1
2-Chloroethyl vinyl ether	BDL	0.055	mg/kg	8260B	05/26/09	1
Chloroform	BDL	0.0055	mg/kg	8260B	05/26/09	1
Chloromethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	05/26/09	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,2-Dibromo-3-Chloropropane	BDL	0.0055	mg/kg	8260B	05/26/09	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
Dibromomethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Dichlorodifluoromethane	BDL	0.0055	mg/kg	8260B	05/26/09	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	05/26/09	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	05/26/09	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	05/26/09	1

Results listed are dry weight basis.
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REPORT OF ANALYSIS

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Stantec Consulting - Tualatin, OR
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Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-03

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-3-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 08:34

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	05/26/09	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	05/26/09	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	05/26/09	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	05/26/09	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	05/26/09	1
Ethylbenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Hexachloro-1,3-Butadiene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	05/26/09	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260B	05/26/09	1
Methylene Chloride	BDL	0.0055	mg/kg	8260B	05/26/09	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	05/26/09	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	05/26/09	1
Naphthalene	BDL	0.0055	mg/kg	8260B	05/26/09	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Styrene	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
Tetrachloroethene	0.0075	0.0011	mg/kg	8260B	05/26/09	1
Toluene	BDL	0.0055	mg/kg	8260B	05/26/09	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0011	mg/kg	8260B	05/26/09	1
Trichloroethene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Trichlorofluoromethane	BDL	0.0055	mg/kg	8260B	05/26/09	1
1,2,3-Trichloropropane	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Vinyl chloride	BDL	0.0011	mg/kg	8260B	05/26/09	1
Xylenes, Total	BDL	0.0033	mg/kg	8260B	05/26/09	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	05/26/09	1
Dibromofluoromethane	95.8		% Rec.	8260B	05/26/09	1
4-Bromofluorobenzene	95.3		% Rec.	8260B	05/26/09	1
Base/Neutral Extractables						
Acenaphthene	BDL	0.36	mg/kg	8270C	05/28/09	1
Acenaphthylene	BDL	0.36	mg/kg	8270C	05/28/09	1
Anthracene	BDL	0.36	mg/kg	8270C	05/28/09	1
Benzidine	BDL	0.36	mg/kg	8270C	05/28/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
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June 04,2009

ESC Sample # : L404086-03

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-3-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 08:34

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Benzo(a)anthracene	BDL	0.36	mg/kg	8270C	05/28/09	1
Benzo(b)fluoranthene	BDL	0.36	mg/kg	8270C	05/28/09	1
Benzo(k)fluoranthene	BDL	0.36	mg/kg	8270C	05/28/09	1
Benzo(g,h,i)perylene	BDL	0.36	mg/kg	8270C	05/28/09	1
Benzo(a)pyrene	BDL	0.36	mg/kg	8270C	05/28/09	1
Bis(2-chlorethoxy)methane	BDL	0.36	mg/kg	8270C	05/28/09	1
Bis(2-chloroethyl)ether	BDL	0.36	mg/kg	8270C	05/28/09	1
Bis(2-chloroisopropyl)ether	BDL	0.36	mg/kg	8270C	05/28/09	1
4-Bromophenyl-phenylether	BDL	0.36	mg/kg	8270C	05/28/09	1
2-Chloronaphthalene	BDL	0.36	mg/kg	8270C	05/28/09	1
4-Chlorophenyl-phenylether	BDL	0.36	mg/kg	8270C	05/28/09	1
Chrysene	BDL	0.36	mg/kg	8270C	05/28/09	1
Dibenz(a,h)anthracene	BDL	0.36	mg/kg	8270C	05/28/09	1
3,3-Dichlorobenzidine	BDL	0.36	mg/kg	8270C	05/28/09	1
2,4-Dinitrotoluene	BDL	0.36	mg/kg	8270C	05/28/09	1
2,6-Dinitrotoluene	BDL	0.36	mg/kg	8270C	05/28/09	1
Fluoranthene	BDL	0.36	mg/kg	8270C	05/28/09	1
Fluorene	BDL	0.36	mg/kg	8270C	05/28/09	1
Hexachlorobenzene	BDL	0.36	mg/kg	8270C	05/28/09	1
Hexachloro-1,3-butadiene	BDL	0.36	mg/kg	8270C	05/28/09	1
Hexachlorocyclopentadiene	BDL	0.36	mg/kg	8270C	05/28/09	1
Hexachloroethane	BDL	0.36	mg/kg	8270C	05/28/09	1
Indeno(1,2,3-cd)pyrene	BDL	0.36	mg/kg	8270C	05/28/09	1
Isophorone	BDL	0.36	mg/kg	8270C	05/28/09	1
Naphthalene	BDL	0.36	mg/kg	8270C	05/28/09	1
Nitrobenzene	BDL	0.36	mg/kg	8270C	05/28/09	1
n-Nitrosodimethylamine	BDL	0.36	mg/kg	8270C	05/28/09	1
n-Nitrosodiphenylamine	BDL	0.36	mg/kg	8270C	05/28/09	1
n-Nitrosodi-n-propylamine	BDL	0.36	mg/kg	8270C	05/28/09	1
Phenanthrene	BDL	0.36	mg/kg	8270C	05/28/09	1
Benzylbutyl phthalate	BDL	0.36	mg/kg	8270C	05/28/09	1
Bis(2-ethylhexyl)phthalate	BDL	0.36	mg/kg	8270C	05/28/09	1
Di-n-butyl phthalate	BDL	0.36	mg/kg	8270C	05/28/09	1
Diethyl phthalate	BDL	0.36	mg/kg	8270C	05/28/09	1
Dimethyl phthalate	BDL	0.36	mg/kg	8270C	05/28/09	1
Di-n-octyl phthalate	BDL	0.36	mg/kg	8270C	05/28/09	1
Pyrene	BDL	0.36	mg/kg	8270C	05/28/09	1
1,2,4-Trichlorobenzene	BDL	0.36	mg/kg	8270C	05/28/09	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	0.36	mg/kg	8270C	05/28/09	1
2-Chlorophenol	BDL	0.36	mg/kg	8270C	05/28/09	1
2,4-Dichlorophenol	BDL	0.36	mg/kg	8270C	05/28/09	1
2,4-Dimethylphenol	BDL	0.36	mg/kg	8270C	05/28/09	1
4,6-Dinitro-2-methylphenol	BDL	0.36	mg/kg	8270C	05/28/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-03

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-3-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 08:34

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
2,4-Dinitrophenol	BDL	0.36	mg/kg	8270C	05/28/09	1
2-Nitrophenol	BDL	0.36	mg/kg	8270C	05/28/09	1
4-Nitrophenol	BDL	0.36	mg/kg	8270C	05/28/09	1
Pentachlorophenol	BDL	0.36	mg/kg	8270C	05/28/09	1
Phenol	BDL	0.36	mg/kg	8270C	05/28/09	1
2,4,6-Trichlorophenol	BDL	0.36	mg/kg	8270C	05/28/09	1
Surrogate Recovery						
Nitrobenzene-d5	50.6		% Rec.	8270C	05/28/09	1
2-Fluorobiphenyl	64.2		% Rec.	8270C	05/28/09	1
p-Terphenyl-d14	78.5		% Rec.	8270C	05/28/09	1
Phenol-d5	56.7		% Rec.	8270C	05/28/09	1
2-Fluorophenol	56.8		% Rec.	8270C	05/28/09	1
2,4,6-Tribromophenol	78.5		% Rec.	8270C	05/28/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 06/04/09 11:10 Revised: 06/04/09 15:25

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1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-04

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-4-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 10:09

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	95.3		%	2540G	05/28/09	1
Mercury	BDL	0.021	mg/kg	7471	05/26/09	1
Arsenic	BDL	5.2	mg/kg	6010B	06/03/09	5
Barium	55.	0.26	mg/kg	6010B	06/02/09	1
Cadmium	0.80	0.26	mg/kg	6010B	06/02/09	1
Chromium	38.	0.52	mg/kg	6010B	06/02/09	1
Lead	3.2	0.26	mg/kg	6010B	06/02/09	1
Selenium	BDL	2.1	mg/kg	6010B	06/04/09	2
Silver	BDL	0.52	mg/kg	6010B	06/02/09	1
Volatile Organics						
Acetone	BDL	0.052	mg/kg	8260B	05/26/09	1
Acrylonitrile	BDL	0.010	mg/kg	8260B	05/26/09	1
Benzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
Bromobenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260B	05/26/09	1
Bromoform	BDL	0.0010	mg/kg	8260B	05/26/09	1
Bromomethane	BDL	0.0052	mg/kg	8260B	05/26/09	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260B	05/26/09	1
Chlorobenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260B	05/26/09	1
Chloroethane	BDL	0.0052	mg/kg	8260B	05/26/09	1
2-Chloroethyl vinyl ether	BDL	0.052	mg/kg	8260B	05/26/09	1
Chloroform	BDL	0.0052	mg/kg	8260B	05/26/09	1
Chloromethane	BDL	0.0010	mg/kg	8260B	05/26/09	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260B	05/26/09	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,2-Dibromo-3-Chloropropane	BDL	0.0052	mg/kg	8260B	05/26/09	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260B	05/26/09	1
Dibromomethane	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
Dichlorodifluoromethane	BDL	0.0052	mg/kg	8260B	05/26/09	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260B	05/26/09	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	05/26/09	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	05/26/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-04

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-4-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 10:09

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260B	05/26/09	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	05/26/09	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	05/26/09	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	05/26/09	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260B	05/26/09	1
Ethylbenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
Hexachloro-1,3-Butadiene	BDL	0.0010	mg/kg	8260B	05/26/09	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
p-Isopropyltoluene	BDL	0.0010	mg/kg	8260B	05/26/09	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260B	05/26/09	1
Methylene Chloride	BDL	0.0052	mg/kg	8260B	05/26/09	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260B	05/26/09	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260B	05/26/09	1
Naphthalene	BDL	0.0052	mg/kg	8260B	05/26/09	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
Styrene	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	05/26/09	1
Tetrachloroethene	0.0049	0.0010	mg/kg	8260B	05/26/09	1
Toluene	BDL	0.0052	mg/kg	8260B	05/26/09	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0010	mg/kg	8260B	05/26/09	1
Trichloroethene	BDL	0.0010	mg/kg	8260B	05/26/09	1
Trichlorofluoromethane	BDL	0.0052	mg/kg	8260B	05/26/09	1
1,2,3-Trichloropropane	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
Vinyl chloride	BDL	0.0010	mg/kg	8260B	05/26/09	1
Xylenes, Total	BDL	0.0031	mg/kg	8260B	05/26/09	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	05/26/09	1
Dibromofluoromethane	95.1		% Rec.	8260B	05/26/09	1
4-Bromofluorobenzene	97.2		% Rec.	8260B	05/26/09	1
Base/Neutral Extractables						
Acenaphthene	BDL	0.35	mg/kg	8270C	05/28/09	1
Acenaphthylene	BDL	0.35	mg/kg	8270C	05/28/09	1
Anthracene	BDL	0.35	mg/kg	8270C	05/28/09	1
Benzidine	BDL	0.35	mg/kg	8270C	05/28/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-04

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-4-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 10:09

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Benzo(a)anthracene	BDL	0.35	mg/kg	8270C	05/28/09	1
Benzo(b)fluoranthene	BDL	0.35	mg/kg	8270C	05/28/09	1
Benzo(k)fluoranthene	BDL	0.35	mg/kg	8270C	05/28/09	1
Benzo(g,h,i)perylene	BDL	0.35	mg/kg	8270C	05/28/09	1
Benzo(a)pyrene	BDL	0.35	mg/kg	8270C	05/28/09	1
Bis(2-chlorethoxy)methane	BDL	0.35	mg/kg	8270C	05/28/09	1
Bis(2-chloroethyl)ether	BDL	0.35	mg/kg	8270C	05/28/09	1
Bis(2-chloroisopropyl)ether	BDL	0.35	mg/kg	8270C	05/28/09	1
4-Bromophenyl-phenylether	BDL	0.35	mg/kg	8270C	05/28/09	1
2-Chloronaphthalene	BDL	0.35	mg/kg	8270C	05/28/09	1
4-Chlorophenyl-phenylether	BDL	0.35	mg/kg	8270C	05/28/09	1
Chrysene	BDL	0.35	mg/kg	8270C	05/28/09	1
Dibenz(a,h)anthracene	BDL	0.35	mg/kg	8270C	05/28/09	1
3,3-Dichlorobenzidine	BDL	0.35	mg/kg	8270C	05/28/09	1
2,4-Dinitrotoluene	BDL	0.35	mg/kg	8270C	05/28/09	1
2,6-Dinitrotoluene	BDL	0.35	mg/kg	8270C	05/28/09	1
Fluoranthene	BDL	0.35	mg/kg	8270C	05/28/09	1
Fluorene	BDL	0.35	mg/kg	8270C	05/28/09	1
Hexachlorobenzene	BDL	0.35	mg/kg	8270C	05/28/09	1
Hexachloro-1,3-butadiene	BDL	0.35	mg/kg	8270C	05/28/09	1
Hexachlorocyclopentadiene	BDL	0.35	mg/kg	8270C	05/28/09	1
Hexachloroethane	BDL	0.35	mg/kg	8270C	05/28/09	1
Indeno(1,2,3-cd)pyrene	BDL	0.35	mg/kg	8270C	05/28/09	1
Isophorone	BDL	0.35	mg/kg	8270C	05/28/09	1
Naphthalene	BDL	0.35	mg/kg	8270C	05/28/09	1
Nitrobenzene	BDL	0.35	mg/kg	8270C	05/28/09	1
n-Nitrosodimethylamine	BDL	0.35	mg/kg	8270C	05/28/09	1
n-Nitrosodiphenylamine	BDL	0.35	mg/kg	8270C	05/28/09	1
n-Nitrosodi-n-propylamine	BDL	0.35	mg/kg	8270C	05/28/09	1
Phenanthrene	BDL	0.35	mg/kg	8270C	05/28/09	1
Benzylbutyl phthalate	BDL	0.35	mg/kg	8270C	05/28/09	1
Bis(2-ethylhexyl)phthalate	BDL	0.35	mg/kg	8270C	05/28/09	1
Di-n-butyl phthalate	BDL	0.35	mg/kg	8270C	05/28/09	1
Diethyl phthalate	BDL	0.35	mg/kg	8270C	05/28/09	1
Dimethyl phthalate	BDL	0.35	mg/kg	8270C	05/28/09	1
Di-n-octyl phthalate	BDL	0.35	mg/kg	8270C	05/28/09	1
Pyrene	BDL	0.35	mg/kg	8270C	05/28/09	1
1,2,4-Trichlorobenzene	BDL	0.35	mg/kg	8270C	05/28/09	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	0.35	mg/kg	8270C	05/28/09	1
2-Chlorophenol	BDL	0.35	mg/kg	8270C	05/28/09	1
2,4-Dichlorophenol	BDL	0.35	mg/kg	8270C	05/28/09	1
2,4-Dimethylphenol	BDL	0.35	mg/kg	8270C	05/28/09	1
4,6-Dinitro-2-methylphenol	BDL	0.35	mg/kg	8270C	05/28/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-04

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-4-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 10:09

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
2,4-Dinitrophenol	BDL	0.35	mg/kg	8270C	05/28/09	1
2-Nitrophenol	BDL	0.35	mg/kg	8270C	05/28/09	1
4-Nitrophenol	BDL	0.35	mg/kg	8270C	05/28/09	1
Pentachlorophenol	BDL	0.35	mg/kg	8270C	05/28/09	1
Phenol	BDL	0.35	mg/kg	8270C	05/28/09	1
2,4,6-Trichlorophenol	BDL	0.35	mg/kg	8270C	05/28/09	1
Surrogate Recovery						
Nitrobenzene-d5	51.2		% Rec.	8270C	05/28/09	1
2-Fluorobiphenyl	69.3		% Rec.	8270C	05/28/09	1
p-Terphenyl-d14	85.4		% Rec.	8270C	05/28/09	1
Phenol-d5	58.1		% Rec.	8270C	05/28/09	1
2-Fluorophenol	58.6		% Rec.	8270C	05/28/09	1
2,4,6-Tribromophenol	80.9		% Rec.	8270C	05/28/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

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Reported: 06/04/09 11:10 Revised: 06/04/09 15:25

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-05

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-5-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 11:27

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	95.9		%	2540G	05/28/09	1
Mercury	BDL	0.021	mg/kg	7471	05/26/09	1
Arsenic	BDL	5.2	mg/kg	6010B	06/03/09	5
Barium	49.	0.26	mg/kg	6010B	06/02/09	1
Cadmium	1.2	0.26	mg/kg	6010B	06/02/09	1
Chromium	140	0.52	mg/kg	6010B	06/02/09	1
Lead	3.8	0.26	mg/kg	6010B	06/02/09	1
Selenium	BDL	2.1	mg/kg	6010B	06/04/09	2
Silver	BDL	2.6	mg/kg	6010B	06/03/09	5
Volatile Organics						
Acetone	BDL	0.052	mg/kg	8260B	05/26/09	1
Acrylonitrile	BDL	0.010	mg/kg	8260B	05/26/09	1
Benzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
Bromobenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260B	05/26/09	1
Bromoform	BDL	0.0010	mg/kg	8260B	05/26/09	1
Bromomethane	BDL	0.0052	mg/kg	8260B	05/26/09	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260B	05/26/09	1
Chlorobenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260B	05/26/09	1
Chloroethane	BDL	0.0052	mg/kg	8260B	05/26/09	1
2-Chloroethyl vinyl ether	BDL	0.052	mg/kg	8260B	05/26/09	1
Chloroform	BDL	0.0052	mg/kg	8260B	05/26/09	1
Chloromethane	BDL	0.0010	mg/kg	8260B	05/26/09	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260B	05/26/09	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,2-Dibromo-3-Chloropropane	BDL	0.0052	mg/kg	8260B	05/26/09	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260B	05/26/09	1
Dibromomethane	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
Dichlorodifluoromethane	BDL	0.0052	mg/kg	8260B	05/26/09	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260B	05/26/09	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	05/26/09	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	05/26/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-05

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-5-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 11:27

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260B	05/26/09	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	05/26/09	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	05/26/09	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	05/26/09	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260B	05/26/09	1
Ethylbenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
Hexachloro-1,3-Butadiene	BDL	0.0010	mg/kg	8260B	05/26/09	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
p-Isopropyltoluene	BDL	0.0010	mg/kg	8260B	05/26/09	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260B	05/26/09	1
Methylene Chloride	BDL	0.0052	mg/kg	8260B	05/26/09	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260B	05/26/09	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260B	05/26/09	1
Naphthalene	BDL	0.0052	mg/kg	8260B	05/26/09	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
Styrene	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	05/26/09	1
Tetrachloroethene	0.011	0.0010	mg/kg	8260B	05/26/09	1
Toluene	BDL	0.0052	mg/kg	8260B	05/26/09	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0010	mg/kg	8260B	05/26/09	1
Trichloroethene	BDL	0.0010	mg/kg	8260B	05/26/09	1
Trichlorofluoromethane	BDL	0.0052	mg/kg	8260B	05/26/09	1
1,2,3-Trichloropropane	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	05/26/09	1
Vinyl chloride	BDL	0.0010	mg/kg	8260B	05/26/09	1
Xylenes, Total	BDL	0.0031	mg/kg	8260B	05/26/09	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	05/26/09	1
Dibromofluoromethane	90.6		% Rec.	8260B	05/26/09	1
4-Bromofluorobenzene	96.9		% Rec.	8260B	05/26/09	1
Base/Neutral Extractables						
Acenaphthene	BDL	0.34	mg/kg	8270C	05/28/09	1
Acenaphthylene	BDL	0.34	mg/kg	8270C	05/28/09	1
Anthracene	BDL	0.34	mg/kg	8270C	05/28/09	1
Benzidine	BDL	0.34	mg/kg	8270C	05/28/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
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Est. 1970

REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-05

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-5-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 11:27

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Benzo(a)anthracene	BDL	0.34	mg/kg	8270C	05/28/09	1
Benzo(b)fluoranthene	BDL	0.34	mg/kg	8270C	05/28/09	1
Benzo(k)fluoranthene	BDL	0.34	mg/kg	8270C	05/28/09	1
Benzo(g,h,i)perylene	BDL	0.34	mg/kg	8270C	05/28/09	1
Benzo(a)pyrene	BDL	0.34	mg/kg	8270C	05/28/09	1
Bis(2-chlorethoxy)methane	BDL	0.34	mg/kg	8270C	05/28/09	1
Bis(2-chloroethyl)ether	BDL	0.34	mg/kg	8270C	05/28/09	1
Bis(2-chloroisopropyl)ether	BDL	0.34	mg/kg	8270C	05/28/09	1
4-Bromophenyl-phenylether	BDL	0.34	mg/kg	8270C	05/28/09	1
2-Chloronaphthalene	BDL	0.34	mg/kg	8270C	05/28/09	1
4-Chlorophenyl-phenylether	BDL	0.34	mg/kg	8270C	05/28/09	1
Chrysene	BDL	0.34	mg/kg	8270C	05/28/09	1
Dibenz(a,h)anthracene	BDL	0.34	mg/kg	8270C	05/28/09	1
3,3-Dichlorobenzidine	BDL	0.34	mg/kg	8270C	05/28/09	1
2,4-Dinitrotoluene	BDL	0.34	mg/kg	8270C	05/28/09	1
2,6-Dinitrotoluene	BDL	0.34	mg/kg	8270C	05/28/09	1
Fluoranthene	BDL	0.34	mg/kg	8270C	05/28/09	1
Fluorene	BDL	0.34	mg/kg	8270C	05/28/09	1
Hexachlorobenzene	BDL	0.34	mg/kg	8270C	05/28/09	1
Hexachloro-1,3-butadiene	BDL	0.34	mg/kg	8270C	05/28/09	1
Hexachlorocyclopentadiene	BDL	0.34	mg/kg	8270C	05/28/09	1
Hexachloroethane	BDL	0.34	mg/kg	8270C	05/28/09	1
Indeno(1,2,3-cd)pyrene	BDL	0.34	mg/kg	8270C	05/28/09	1
Isophorone	BDL	0.34	mg/kg	8270C	05/28/09	1
Naphthalene	BDL	0.34	mg/kg	8270C	05/28/09	1
Nitrobenzene	BDL	0.34	mg/kg	8270C	05/28/09	1
n-Nitrosodimethylamine	BDL	0.34	mg/kg	8270C	05/28/09	1
n-Nitrosodiphenylamine	BDL	0.34	mg/kg	8270C	05/28/09	1
n-Nitrosodi-n-propylamine	BDL	0.34	mg/kg	8270C	05/28/09	1
Phenanthrene	BDL	0.34	mg/kg	8270C	05/28/09	1
Benzylbutyl phthalate	BDL	0.34	mg/kg	8270C	05/28/09	1
Bis(2-ethylhexyl)phthalate	BDL	0.34	mg/kg	8270C	05/28/09	1
Di-n-butyl phthalate	BDL	0.34	mg/kg	8270C	05/28/09	1
Diethyl phthalate	BDL	0.34	mg/kg	8270C	05/28/09	1
Dimethyl phthalate	BDL	0.34	mg/kg	8270C	05/28/09	1
Di-n-octyl phthalate	BDL	0.34	mg/kg	8270C	05/28/09	1
Pyrene	BDL	0.34	mg/kg	8270C	05/28/09	1
1,2,4-Trichlorobenzene	BDL	0.34	mg/kg	8270C	05/28/09	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	0.34	mg/kg	8270C	05/28/09	1
2-Chlorophenol	BDL	0.34	mg/kg	8270C	05/28/09	1
2,4-Dichlorophenol	BDL	0.34	mg/kg	8270C	05/28/09	1
2,4-Dimethylphenol	BDL	0.34	mg/kg	8270C	05/28/09	1
4,6-Dinitro-2-methylphenol	BDL	0.34	mg/kg	8270C	05/28/09	1

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-05

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-5-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 11:27

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
2,4-Dinitrophenol	BDL	0.34	mg/kg	8270C	05/28/09	1
2-Nitrophenol	BDL	0.34	mg/kg	8270C	05/28/09	1
4-Nitrophenol	BDL	0.34	mg/kg	8270C	05/28/09	1
Pentachlorophenol	BDL	0.34	mg/kg	8270C	05/28/09	1
Phenol	BDL	0.34	mg/kg	8270C	05/28/09	1
2,4,6-Trichlorophenol	BDL	0.34	mg/kg	8270C	05/28/09	1
Surrogate Recovery						
Nitrobenzene-d5	51.1		% Rec.	8270C	05/28/09	1
2-Fluorobiphenyl	66.9		% Rec.	8270C	05/28/09	1
p-Terphenyl-d14	87.0		% Rec.	8270C	05/28/09	1
Phenol-d5	58.5		% Rec.	8270C	05/28/09	1
2-Fluorophenol	59.9		% Rec.	8270C	05/28/09	1
2,4,6-Tribromophenol	85.7		% Rec.	8270C	05/28/09	1

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Reported: 06/04/09 11:10 Revised: 06/04/09 15:25

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(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-06

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-6-5FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 12:52

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	92.8		%	2540G	05/28/09	1
Mercury	0.028	0.022	mg/kg	7471	05/26/09	1
Arsenic	BDL	5.4	mg/kg	6010B	06/03/09	5
Barium	56.	0.27	mg/kg	6010B	06/02/09	1
Cadmium	0.93	0.27	mg/kg	6010B	06/02/09	1
Chromium	33.	0.54	mg/kg	6010B	06/02/09	1
Lead	7.2	0.27	mg/kg	6010B	06/02/09	1
Selenium	BDL	2.2	mg/kg	6010B	06/04/09	2
Silver	BDL	0.54	mg/kg	6010B	06/02/09	1
Volatile Organics						
Acetone	0.082	0.054	mg/kg	8260B	05/26/09	1
Acrylonitrile	BDL	0.011	mg/kg	8260B	05/26/09	1
Benzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Bromobenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
Bromoform	BDL	0.0011	mg/kg	8260B	05/26/09	1
Bromomethane	BDL	0.0054	mg/kg	8260B	05/26/09	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	05/26/09	1
Chlorobenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
Chloroethane	BDL	0.0054	mg/kg	8260B	05/26/09	1
2-Chloroethyl vinyl ether	BDL	0.054	mg/kg	8260B	05/26/09	1
Chloroform	BDL	0.0054	mg/kg	8260B	05/26/09	1
Chloromethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	05/26/09	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,2-Dibromo-3-Chloropropane	BDL	0.0054	mg/kg	8260B	05/26/09	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
Dibromomethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Dichlorodifluoromethane	BDL	0.0054	mg/kg	8260B	05/26/09	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	05/26/09	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	05/26/09	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	05/26/09	1

Results listed are dry weight basis.
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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-06

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-6-5FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 12:52

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	05/26/09	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	05/26/09	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	05/26/09	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	05/26/09	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	05/26/09	1
Ethylbenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Hexachloro-1,3-Butadiene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	05/26/09	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260B	05/26/09	1
Methylene Chloride	BDL	0.0054	mg/kg	8260B	05/26/09	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	05/26/09	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	05/26/09	1
Naphthalene	BDL	0.0054	mg/kg	8260B	05/26/09	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Styrene	0.0026	0.0011	mg/kg	8260B	05/26/09	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
Tetrachloroethene	0.044	0.0011	mg/kg	8260B	05/26/09	1
Toluene	BDL	0.0054	mg/kg	8260B	05/26/09	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0011	mg/kg	8260B	05/26/09	1
Trichloroethene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Trichlorofluoromethane	BDL	0.0054	mg/kg	8260B	05/26/09	1
1,2,3-Trichloropropane	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	05/26/09	1
Vinyl chloride	BDL	0.0011	mg/kg	8260B	05/26/09	1
Xylenes, Total	BDL	0.0032	mg/kg	8260B	05/26/09	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	05/26/09	1
Dibromofluoromethane	95.4		% Rec.	8260B	05/26/09	1
4-Bromofluorobenzene	91.0		% Rec.	8260B	05/26/09	1
Base/Neutral Extractables						
Acenaphthene	BDL	0.36	mg/kg	8270C	05/28/09	1
Acenaphthylene	BDL	0.36	mg/kg	8270C	05/28/09	1
Anthracene	BDL	0.36	mg/kg	8270C	05/28/09	1
Benzidine	BDL	0.36	mg/kg	8270C	05/28/09	1

Results listed are dry weight basis.
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Mt. Juliet, TN 37122
(615) 758-5858
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-06

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-6-5FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 12:52

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Benzo(a)anthracene	BDL	0.36	mg/kg	8270C	05/28/09	1
Benzo(b)fluoranthene	BDL	0.36	mg/kg	8270C	05/28/09	1
Benzo(k)fluoranthene	BDL	0.36	mg/kg	8270C	05/28/09	1
Benzo(g,h,i)perylene	BDL	0.36	mg/kg	8270C	05/28/09	1
Benzo(a)pyrene	BDL	0.36	mg/kg	8270C	05/28/09	1
Bis(2-chlorethoxy)methane	BDL	0.36	mg/kg	8270C	05/28/09	1
Bis(2-chloroethyl)ether	BDL	0.36	mg/kg	8270C	05/28/09	1
Bis(2-chloroisopropyl)ether	BDL	0.36	mg/kg	8270C	05/28/09	1
4-Bromophenyl-phenylether	BDL	0.36	mg/kg	8270C	05/28/09	1
2-Chloronaphthalene	BDL	0.36	mg/kg	8270C	05/28/09	1
4-Chlorophenyl-phenylether	BDL	0.36	mg/kg	8270C	05/28/09	1
Chrysene	BDL	0.36	mg/kg	8270C	05/28/09	1
Dibenz(a,h)anthracene	BDL	0.36	mg/kg	8270C	05/28/09	1
3,3-Dichlorobenzidine	BDL	0.36	mg/kg	8270C	05/28/09	1
2,4-Dinitrotoluene	BDL	0.36	mg/kg	8270C	05/28/09	1
2,6-Dinitrotoluene	BDL	0.36	mg/kg	8270C	05/28/09	1
Fluoranthene	BDL	0.36	mg/kg	8270C	05/28/09	1
Fluorene	BDL	0.36	mg/kg	8270C	05/28/09	1
Hexachlorobenzene	BDL	0.36	mg/kg	8270C	05/28/09	1
Hexachloro-1,3-butadiene	BDL	0.36	mg/kg	8270C	05/28/09	1
Hexachlorocyclopentadiene	BDL	0.36	mg/kg	8270C	05/28/09	1
Hexachloroethane	BDL	0.36	mg/kg	8270C	05/28/09	1
Indeno(1,2,3-cd)pyrene	BDL	0.36	mg/kg	8270C	05/28/09	1
Isophorone	BDL	0.36	mg/kg	8270C	05/28/09	1
Naphthalene	BDL	0.36	mg/kg	8270C	05/28/09	1
Nitrobenzene	BDL	0.36	mg/kg	8270C	05/28/09	1
n-Nitrosodimethylamine	BDL	0.36	mg/kg	8270C	05/28/09	1
n-Nitrosodiphenylamine	BDL	0.36	mg/kg	8270C	05/28/09	1
n-Nitrosodi-n-propylamine	BDL	0.36	mg/kg	8270C	05/28/09	1
Phenanthrene	BDL	0.36	mg/kg	8270C	05/28/09	1
Benzylbutyl phthalate	BDL	0.36	mg/kg	8270C	05/28/09	1
Bis(2-ethylhexyl)phthalate	BDL	0.36	mg/kg	8270C	05/28/09	1
Di-n-butyl phthalate	BDL	0.36	mg/kg	8270C	05/28/09	1
Diethyl phthalate	BDL	0.36	mg/kg	8270C	05/28/09	1
Dimethyl phthalate	1.3	0.36	mg/kg	8270C	05/28/09	1
Di-n-octyl phthalate	BDL	0.36	mg/kg	8270C	05/28/09	1
Pyrene	BDL	0.36	mg/kg	8270C	05/28/09	1
1,2,4-Trichlorobenzene	BDL	0.36	mg/kg	8270C	05/28/09	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	0.36	mg/kg	8270C	05/28/09	1
2-Chlorophenol	BDL	0.36	mg/kg	8270C	05/28/09	1
2,4-Dichlorophenol	BDL	0.36	mg/kg	8270C	05/28/09	1
2,4-Dimethylphenol	BDL	0.36	mg/kg	8270C	05/28/09	1
4,6-Dinitro-2-methylphenol	BDL	0.36	mg/kg	8270C	05/28/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-06

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-6-5FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 12:52

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
2,4-Dinitrophenol	BDL	0.36	mg/kg	8270C	05/28/09	1
2-Nitrophenol	BDL	0.36	mg/kg	8270C	05/28/09	1
4-Nitrophenol	BDL	0.36	mg/kg	8270C	05/28/09	1
Pentachlorophenol	BDL	0.36	mg/kg	8270C	05/28/09	1
Phenol	BDL	0.36	mg/kg	8270C	05/28/09	1
2,4,6-Trichlorophenol	BDL	0.36	mg/kg	8270C	05/28/09	1
Surrogate Recovery						
Nitrobenzene-d5	61.4		% Rec.	8270C	05/28/09	1
2-Fluorobiphenyl	77.5		% Rec.	8270C	05/28/09	1
p-Terphenyl-d14	81.4		% Rec.	8270C	05/28/09	1
Phenol-d5	69.7		% Rec.	8270C	05/28/09	1
2-Fluorophenol	70.1		% Rec.	8270C	05/28/09	1
2,4,6-Tribromophenol	101.		% Rec.	8270C	05/28/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 06/04/09 11:10 Revised: 06/04/09 15:25

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-07

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-6-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 13:05

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 06/04/09 11:10 Revised: 06/04/09 15:25

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Fax (615) 758-5859

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-08

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-1

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/20/09 10:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	0.21	0.20	ug/l	7470A	05/26/09	1
Arsenic	BDL	20.	ug/l	6010B	06/02/09	1
Barium	480	5.0	ug/l	6010B	06/02/09	1
Cadmium	BDL	5.0	ug/l	6010B	06/02/09	1
Chromium	43.	10.	ug/l	6010B	06/02/09	1
Lead	20.	5.0	ug/l	6010B	06/02/09	1
Selenium	BDL	20.	ug/l	6010B	06/02/09	1
Silver	BDL	10.	ug/l	6010B	06/02/09	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	05/24/09	1
Acrolein	BDL	50.	ug/l	8260B	05/24/09	1
Acrylonitrile	BDL	10.	ug/l	8260B	05/24/09	1
Benzene	BDL	1.0	ug/l	8260B	05/24/09	1
Bromobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	05/24/09	1
Bromoform	BDL	1.0	ug/l	8260B	05/24/09	1
Bromomethane	BDL	5.0	ug/l	8260B	05/24/09	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	05/24/09	1
Chlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	05/24/09	1
Chloroethane	BDL	5.0	ug/l	8260B	05/24/09	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	05/24/09	1
Chloroform	BDL	5.0	ug/l	8260B	05/24/09	1
Chloromethane	BDL	2.5	ug/l	8260B	05/24/09	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	05/24/09	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	05/24/09	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	05/24/09	1
Dibromomethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	05/24/09	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-08

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-1

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/20/09 10:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	05/24/09	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Hexachloro-1,3-Butadiene	BDL	1.0	ug/l	8260B	05/24/09	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	05/24/09	1
2-Butanone (MEK)	BDL	10.	ug/l	8260B	05/24/09	1
Methylene Chloride	BDL	5.0	ug/l	8260B	05/24/09	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	05/24/09	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	05/24/09	1
Naphthalene	BDL	5.0	ug/l	8260B	05/24/09	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Styrene	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	1.0	ug/l	8260B	05/24/09	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
Toluene	BDL	5.0	ug/l	8260B	05/24/09	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
Trichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	05/24/09	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Vinyl chloride	BDL	1.0	ug/l	8260B	05/24/09	1
Xylenes, Total	BDL	3.0	ug/l	8260B	05/24/09	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	05/24/09	1
Dibromofluoromethane	97.2		% Rec.	8260B	05/24/09	1
4-Bromofluorobenzene	99.6		% Rec.	8260B	05/24/09	1
Base/Neutral Extractables						
Acenaphthene	BDL	10.	ug/l	8270C	05/26/09	1
Acenaphthylene	BDL	10.	ug/l	8270C	05/26/09	1
Anthracene	BDL	10.	ug/l	8270C	05/26/09	1
Benzidine	BDL	50.	ug/l	8270C	05/26/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

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Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-08

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-1

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/20/09 10:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(a)anthracene	BDL	10.	ug/l	8270C	05/26/09	1
Benzo(b)fluoranthene	BDL	10.	ug/l	8270C	05/26/09	1
Benzo(k)fluoranthene	BDL	10.	ug/l	8270C	05/26/09	1
Benzo(g,h,i)perylene	BDL	10.	ug/l	8270C	05/26/09	1
Benzo(a)pyrene	BDL	10.	ug/l	8270C	05/26/09	1
Bis(2-chlorethoxy)methane	BDL	10.	ug/l	8270C	05/26/09	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	8270C	05/26/09	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	8270C	05/26/09	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	8270C	05/26/09	1
2-Chloronaphthalene	BDL	10.	ug/l	8270C	05/26/09	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	8270C	05/26/09	1
Chrysene	BDL	10.	ug/l	8270C	05/26/09	1
Dibenz(a,h)anthracene	BDL	10.	ug/l	8270C	05/26/09	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	8270C	05/26/09	1
2,4-Dinitrotoluene	BDL	10.	ug/l	8270C	05/26/09	1
2,6-Dinitrotoluene	BDL	10.	ug/l	8270C	05/26/09	1
Fluoranthene	BDL	10.	ug/l	8270C	05/26/09	1
Fluorene	BDL	10.	ug/l	8270C	05/26/09	1
Hexachlorobenzene	BDL	10.	ug/l	8270C	05/26/09	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	8270C	05/26/09	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	8270C	05/26/09	1
Hexachloroethane	BDL	10.	ug/l	8270C	05/26/09	1
Indeno(1,2,3-cd)pyrene	BDL	10.	ug/l	8270C	05/26/09	1
Isophorone	BDL	10.	ug/l	8270C	05/26/09	1
Naphthalene	BDL	10.	ug/l	8270C	05/26/09	1
Nitrobenzene	BDL	10.	ug/l	8270C	05/26/09	1
n-Nitrosodimethylamine	BDL	50.	ug/l	8270C	05/26/09	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	8270C	05/26/09	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	8270C	05/26/09	1
Phenanthrene	BDL	10.	ug/l	8270C	05/26/09	1
Benzylbutyl phthalate	BDL	10.	ug/l	8270C	05/26/09	1
Bis(2-ethylhexyl)phthalate	BDL	10.	ug/l	8270C	05/26/09	1
Di-n-butyl phthalate	BDL	10.	ug/l	8270C	05/26/09	1
Diethyl phthalate	BDL	10.	ug/l	8270C	05/26/09	1
Dimethyl phthalate	BDL	10.	ug/l	8270C	05/26/09	1
Di-n-octyl phthalate	BDL	10.	ug/l	8270C	05/26/09	1
Pyrene	BDL	10.	ug/l	8270C	05/26/09	1
1,2,4-Trichlorobenzene	BDL	10.	ug/l	8270C	05/26/09	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	8270C	05/26/09	1
2-Chlorophenol	BDL	10.	ug/l	8270C	05/26/09	1
2,4-Dichlorophenol	BDL	10.	ug/l	8270C	05/26/09	1
2,4-Dimethylphenol	BDL	10.	ug/l	8270C	05/26/09	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	8270C	05/26/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-08

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-1

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/20/09 10:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2,4-Dinitrophenol	BDL	10.	ug/l	8270C	05/26/09	1
2-Nitrophenol	BDL	10.	ug/l	8270C	05/26/09	1
4-Nitrophenol	BDL	10.	ug/l	8270C	05/26/09	1
Pentachlorophenol	BDL	10.	ug/l	8270C	05/26/09	1
Phenol	BDL	10.	ug/l	8270C	05/26/09	1
2,4,6-Trichlorophenol	BDL	10.	ug/l	8270C	05/26/09	1
Surrogate Recovery						
2-Fluorophenol	26.8		% Rec.	8270C	05/26/09	1
Phenol-d5	17.2		% Rec.	8270C	05/26/09	1
Nitrobenzene-d5	46.9		% Rec.	8270C	05/26/09	1
2-Fluorobiphenyl	74.8		% Rec.	8270C	05/26/09	1
2,4,6-Tribromophenol	81.6		% Rec.	8270C	05/26/09	1
p-Terphenyl-d14	115.		% Rec.	8270C	05/26/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

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Reported: 06/04/09 11:10 Revised: 06/04/09 15:25

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-09

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-2

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 08:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.20	ug/l	7470A	05/26/09	1
Arsenic	BDL	20.	ug/l	6010B	06/02/09	1
Barium	91.	5.0	ug/l	6010B	06/02/09	1
Cadmium	BDL	5.0	ug/l	6010B	06/02/09	1
Chromium	20.	10.	ug/l	6010B	06/02/09	1
Lead	6.9	5.0	ug/l	6010B	06/02/09	1
Selenium	BDL	20.	ug/l	6010B	06/02/09	1
Silver	BDL	10.	ug/l	6010B	06/02/09	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	05/24/09	1
Acrolein	BDL	50.	ug/l	8260B	05/24/09	1
Acrylonitrile	BDL	10.	ug/l	8260B	05/24/09	1
Benzene	BDL	1.0	ug/l	8260B	05/24/09	1
Bromobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	05/24/09	1
Bromoform	BDL	1.0	ug/l	8260B	05/24/09	1
Bromomethane	BDL	5.0	ug/l	8260B	05/24/09	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	05/24/09	1
Chlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	05/24/09	1
Chloroethane	BDL	5.0	ug/l	8260B	05/24/09	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	05/24/09	1
Chloroform	BDL	5.0	ug/l	8260B	05/24/09	1
Chloromethane	BDL	2.5	ug/l	8260B	05/24/09	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	05/24/09	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	05/24/09	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	05/24/09	1
Dibromomethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	05/24/09	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-09

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-2

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 08:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	05/24/09	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Hexachloro-1,3-Butadiene	BDL	1.0	ug/l	8260B	05/24/09	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	05/24/09	1
2-Butanone (MEK)	BDL	10.	ug/l	8260B	05/24/09	1
Methylene Chloride	BDL	5.0	ug/l	8260B	05/24/09	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	05/24/09	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	05/24/09	1
Naphthalene	BDL	5.0	ug/l	8260B	05/24/09	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Styrene	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	1.0	ug/l	8260B	05/24/09	1
Tetrachloroethene	1.5	1.0	ug/l	8260B	05/24/09	1
Toluene	BDL	5.0	ug/l	8260B	05/24/09	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
Trichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	05/24/09	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Vinyl chloride	BDL	1.0	ug/l	8260B	05/24/09	1
Xylenes, Total	BDL	3.0	ug/l	8260B	05/24/09	1
Surrogate Recovery						
Toluene-d8	99.0		% Rec.	8260B	05/24/09	1
Dibromofluoromethane	101.		% Rec.	8260B	05/24/09	1
4-Bromofluorobenzene	98.7		% Rec.	8260B	05/24/09	1
Base/Neutral Extractables						
Acenaphthene	BDL	10.	ug/l	8270C	05/26/09	1
Acenaphthylene	BDL	10.	ug/l	8270C	05/26/09	1
Anthracene	BDL	10.	ug/l	8270C	05/26/09	1
Benzidine	BDL	50.	ug/l	8270C	05/26/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-09

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-2

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 08:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(a)anthracene	BDL	10.	ug/l	8270C	05/26/09	1
Benzo(b)fluoranthene	BDL	10.	ug/l	8270C	05/26/09	1
Benzo(k)fluoranthene	BDL	10.	ug/l	8270C	05/26/09	1
Benzo(g,h,i)perylene	BDL	10.	ug/l	8270C	05/26/09	1
Benzo(a)pyrene	BDL	10.	ug/l	8270C	05/26/09	1
Bis(2-chlorethoxy)methane	BDL	10.	ug/l	8270C	05/26/09	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	8270C	05/26/09	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	8270C	05/26/09	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	8270C	05/26/09	1
2-Chloronaphthalene	BDL	10.	ug/l	8270C	05/26/09	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	8270C	05/26/09	1
Chrysene	BDL	10.	ug/l	8270C	05/26/09	1
Dibenz(a,h)anthracene	BDL	10.	ug/l	8270C	05/26/09	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	8270C	05/26/09	1
2,4-Dinitrotoluene	BDL	10.	ug/l	8270C	05/26/09	1
2,6-Dinitrotoluene	BDL	10.	ug/l	8270C	05/26/09	1
Fluoranthene	BDL	10.	ug/l	8270C	05/26/09	1
Fluorene	BDL	10.	ug/l	8270C	05/26/09	1
Hexachlorobenzene	BDL	10.	ug/l	8270C	05/26/09	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	8270C	05/26/09	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	8270C	05/26/09	1
Hexachloroethane	BDL	10.	ug/l	8270C	05/26/09	1
Indeno(1,2,3-cd)pyrene	BDL	10.	ug/l	8270C	05/26/09	1
Isophorone	BDL	10.	ug/l	8270C	05/26/09	1
Naphthalene	BDL	10.	ug/l	8270C	05/26/09	1
Nitrobenzene	BDL	10.	ug/l	8270C	05/26/09	1
n-Nitrosodimethylamine	BDL	50.	ug/l	8270C	05/26/09	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	8270C	05/26/09	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	8270C	05/26/09	1
Phenanthrene	BDL	10.	ug/l	8270C	05/26/09	1
Benzylbutyl phthalate	BDL	10.	ug/l	8270C	05/26/09	1
Bis(2-ethylhexyl)phthalate	BDL	10.	ug/l	8270C	05/26/09	1
Di-n-butyl phthalate	BDL	10.	ug/l	8270C	05/26/09	1
Diethyl phthalate	BDL	10.	ug/l	8270C	05/26/09	1
Dimethyl phthalate	BDL	10.	ug/l	8270C	05/26/09	1
Di-n-octyl phthalate	BDL	10.	ug/l	8270C	05/26/09	1
Pyrene	BDL	10.	ug/l	8270C	05/26/09	1
1,2,4-Trichlorobenzene	BDL	10.	ug/l	8270C	05/26/09	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	8270C	05/26/09	1
2-Chlorophenol	BDL	10.	ug/l	8270C	05/26/09	1
2,4-Dichlorophenol	BDL	10.	ug/l	8270C	05/26/09	1
2,4-Dimethylphenol	BDL	10.	ug/l	8270C	05/26/09	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	8270C	05/26/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-09

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-2

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 08:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2,4-Dinitrophenol	BDL	10.	ug/l	8270C	05/26/09	1
2-Nitrophenol	BDL	10.	ug/l	8270C	05/26/09	1
4-Nitrophenol	BDL	10.	ug/l	8270C	05/26/09	1
Pentachlorophenol	BDL	10.	ug/l	8270C	05/26/09	1
Phenol	BDL	10.	ug/l	8270C	05/26/09	1
2,4,6-Trichlorophenol	BDL	10.	ug/l	8270C	05/26/09	1
Surrogate Recovery						
2-Fluorophenol	36.2		% Rec.	8270C	05/26/09	1
Phenol-d5	22.5		% Rec.	8270C	05/26/09	1
Nitrobenzene-d5	59.4		% Rec.	8270C	05/26/09	1
2-Fluorobiphenyl	82.0		% Rec.	8270C	05/26/09	1
2,4,6-Tribromophenol	98.2		% Rec.	8270C	05/26/09	1
p-Terphenyl-d14	109.		% Rec.	8270C	05/26/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 06/04/09 11:10 Revised: 06/04/09 15:25

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-10

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-3

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 09:07

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.20	ug/l	7470A	05/26/09	1
Arsenic	BDL	20.	ug/l	6010B	06/02/09	1
Barium	70.	5.0	ug/l	6010B	06/02/09	1
Cadmium	BDL	5.0	ug/l	6010B	06/02/09	1
Chromium	12.	10.	ug/l	6010B	06/02/09	1
Lead	7.1	5.0	ug/l	6010B	06/02/09	1
Selenium	BDL	20.	ug/l	6010B	06/02/09	1
Silver	BDL	10.	ug/l	6010B	06/02/09	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	05/24/09	1
Acrolein	BDL	50.	ug/l	8260B	05/24/09	1
Acrylonitrile	BDL	10.	ug/l	8260B	05/24/09	1
Benzene	BDL	1.0	ug/l	8260B	05/24/09	1
Bromobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	05/24/09	1
Bromoform	BDL	1.0	ug/l	8260B	05/24/09	1
Bromomethane	BDL	5.0	ug/l	8260B	05/24/09	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	05/24/09	1
Chlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	05/24/09	1
Chloroethane	BDL	5.0	ug/l	8260B	05/24/09	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	05/24/09	1
Chloroform	BDL	5.0	ug/l	8260B	05/24/09	1
Chloromethane	BDL	2.5	ug/l	8260B	05/24/09	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	05/24/09	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	05/24/09	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	05/24/09	1
Dibromomethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	05/24/09	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-10

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-3

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 09:07

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	05/24/09	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Hexachloro-1,3-Butadiene	BDL	1.0	ug/l	8260B	05/24/09	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	05/24/09	1
2-Butanone (MEK)	BDL	10.	ug/l	8260B	05/24/09	1
Methylene Chloride	BDL	5.0	ug/l	8260B	05/24/09	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	05/24/09	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	05/24/09	1
Naphthalene	BDL	5.0	ug/l	8260B	05/24/09	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Styrene	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	1.0	ug/l	8260B	05/24/09	1
Tetrachloroethene	3.3	1.0	ug/l	8260B	05/24/09	1
Toluene	BDL	5.0	ug/l	8260B	05/24/09	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
Trichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	05/24/09	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Vinyl chloride	BDL	1.0	ug/l	8260B	05/24/09	1
Xylenes, Total	BDL	3.0	ug/l	8260B	05/24/09	1
Surrogate Recovery						
Toluene-d8	100.		% Rec.	8260B	05/24/09	1
Dibromofluoromethane	100.		% Rec.	8260B	05/24/09	1
4-Bromofluorobenzene	98.1		% Rec.	8260B	05/24/09	1
Base/Neutral Extractables						
Acenaphthene	BDL	10.	ug/l	8270C	05/26/09	1
Acenaphthylene	BDL	10.	ug/l	8270C	05/26/09	1
Anthracene	BDL	10.	ug/l	8270C	05/26/09	1
Benzidine	BDL	50.	ug/l	8270C	05/26/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-10

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-3

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 09:07

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(a)anthracene	BDL	10.	ug/l	8270C	05/26/09	1
Benzo(b)fluoranthene	BDL	10.	ug/l	8270C	05/26/09	1
Benzo(k)fluoranthene	BDL	10.	ug/l	8270C	05/26/09	1
Benzo(g,h,i)perylene	BDL	10.	ug/l	8270C	05/26/09	1
Benzo(a)pyrene	BDL	10.	ug/l	8270C	05/26/09	1
Bis(2-chlorethoxy)methane	BDL	10.	ug/l	8270C	05/26/09	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	8270C	05/26/09	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	8270C	05/26/09	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	8270C	05/26/09	1
2-Chloronaphthalene	BDL	10.	ug/l	8270C	05/26/09	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	8270C	05/26/09	1
Chrysene	BDL	10.	ug/l	8270C	05/26/09	1
Dibenz(a,h)anthracene	BDL	10.	ug/l	8270C	05/26/09	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	8270C	05/26/09	1
2,4-Dinitrotoluene	BDL	10.	ug/l	8270C	05/26/09	1
2,6-Dinitrotoluene	BDL	10.	ug/l	8270C	05/26/09	1
Fluoranthene	BDL	10.	ug/l	8270C	05/26/09	1
Fluorene	BDL	10.	ug/l	8270C	05/26/09	1
Hexachlorobenzene	BDL	10.	ug/l	8270C	05/26/09	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	8270C	05/26/09	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	8270C	05/26/09	1
Hexachloroethane	BDL	10.	ug/l	8270C	05/26/09	1
Indeno(1,2,3-cd)pyrene	BDL	10.	ug/l	8270C	05/26/09	1
Isophorone	BDL	10.	ug/l	8270C	05/26/09	1
Naphthalene	BDL	10.	ug/l	8270C	05/26/09	1
Nitrobenzene	BDL	10.	ug/l	8270C	05/26/09	1
n-Nitrosodimethylamine	BDL	50.	ug/l	8270C	05/26/09	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	8270C	05/26/09	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	8270C	05/26/09	1
Phenanthrene	BDL	10.	ug/l	8270C	05/26/09	1
Benzylbutyl phthalate	BDL	10.	ug/l	8270C	05/26/09	1
Bis(2-ethylhexyl)phthalate	BDL	10.	ug/l	8270C	05/26/09	1
Di-n-butyl phthalate	BDL	10.	ug/l	8270C	05/26/09	1
Diethyl phthalate	BDL	10.	ug/l	8270C	05/26/09	1
Dimethyl phthalate	BDL	10.	ug/l	8270C	05/26/09	1
Di-n-octyl phthalate	BDL	10.	ug/l	8270C	05/26/09	1
Pyrene	BDL	10.	ug/l	8270C	05/26/09	1
1,2,4-Trichlorobenzene	BDL	10.	ug/l	8270C	05/26/09	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	8270C	05/26/09	1
2-Chlorophenol	BDL	10.	ug/l	8270C	05/26/09	1
2,4-Dichlorophenol	BDL	10.	ug/l	8270C	05/26/09	1
2,4-Dimethylphenol	BDL	10.	ug/l	8270C	05/26/09	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	8270C	05/26/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-10

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-3

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 09:07

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2,4-Dinitrophenol	BDL	10.	ug/l	8270C	05/26/09	1
2-Nitrophenol	BDL	10.	ug/l	8270C	05/26/09	1
4-Nitrophenol	BDL	10.	ug/l	8270C	05/26/09	1
Pentachlorophenol	BDL	10.	ug/l	8270C	05/26/09	1
Phenol	BDL	10.	ug/l	8270C	05/26/09	1
2,4,6-Trichlorophenol	BDL	10.	ug/l	8270C	05/26/09	1
Surrogate Recovery						
2-Fluorophenol	34.7		% Rec.	8270C	05/26/09	1
Phenol-d5	20.7		% Rec.	8270C	05/26/09	1
Nitrobenzene-d5	63.2		% Rec.	8270C	05/26/09	1
2-Fluorobiphenyl	85.1		% Rec.	8270C	05/26/09	1
2,4,6-Tribromophenol	88.3		% Rec.	8270C	05/26/09	1
p-Terphenyl-d14	105.		% Rec.	8270C	05/26/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

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Reported: 06/04/09 11:10 Revised: 06/04/09 15:25

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-11

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-4

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 10:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.20	ug/l	7470A	05/26/09	1
Arsenic	BDL	20.	ug/l	6010B	06/02/09	1
Barium	190	5.0	ug/l	6010B	06/02/09	1
Cadmium	BDL	5.0	ug/l	6010B	06/02/09	1
Chromium	38.	10.	ug/l	6010B	06/02/09	1
Lead	7.6	5.0	ug/l	6010B	06/02/09	1
Selenium	BDL	20.	ug/l	6010B	06/02/09	1
Silver	BDL	10.	ug/l	6010B	06/02/09	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	05/24/09	1
Acrolein	BDL	50.	ug/l	8260B	05/24/09	1
Acrylonitrile	BDL	10.	ug/l	8260B	05/24/09	1
Benzene	BDL	1.0	ug/l	8260B	05/24/09	1
Bromobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	05/24/09	1
Bromoform	BDL	1.0	ug/l	8260B	05/24/09	1
Bromomethane	BDL	5.0	ug/l	8260B	05/24/09	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	05/24/09	1
Chlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	05/24/09	1
Chloroethane	BDL	5.0	ug/l	8260B	05/24/09	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	05/24/09	1
Chloroform	BDL	5.0	ug/l	8260B	05/24/09	1
Chloromethane	BDL	2.5	ug/l	8260B	05/24/09	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	05/24/09	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	05/24/09	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	05/24/09	1
Dibromomethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	05/24/09	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
SCIENCE CORP.

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-11

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-4

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 10:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	05/24/09	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Hexachloro-1,3-Butadiene	BDL	1.0	ug/l	8260B	05/24/09	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	05/24/09	1
2-Butanone (MEK)	BDL	10.	ug/l	8260B	05/24/09	1
Methylene Chloride	BDL	5.0	ug/l	8260B	05/24/09	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	05/24/09	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	05/24/09	1
Naphthalene	BDL	5.0	ug/l	8260B	05/24/09	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Styrene	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	1.0	ug/l	8260B	05/24/09	1
Tetrachloroethene	42.	1.0	ug/l	8260B	05/24/09	1
Toluene	BDL	5.0	ug/l	8260B	05/24/09	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
Trichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	05/24/09	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Vinyl chloride	BDL	1.0	ug/l	8260B	05/24/09	1
Xylenes, Total	BDL	3.0	ug/l	8260B	05/24/09	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	05/24/09	1
Dibromofluoromethane	97.3		% Rec.	8260B	05/24/09	1
4-Bromofluorobenzene	100.		% Rec.	8260B	05/24/09	1
Base/Neutral Extractables						
Acenaphthene	BDL	10.	ug/l	8270C	05/26/09	1
Acenaphthylene	BDL	10.	ug/l	8270C	05/26/09	1
Anthracene	BDL	10.	ug/l	8270C	05/26/09	1
Benzidine	BDL	50.	ug/l	8270C	05/26/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-11

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-4

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 10:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(a)anthracene	BDL	10.	ug/l	8270C	05/26/09	1
Benzo(b)fluoranthene	BDL	10.	ug/l	8270C	05/26/09	1
Benzo(k)fluoranthene	BDL	10.	ug/l	8270C	05/26/09	1
Benzo(g,h,i)perylene	BDL	10.	ug/l	8270C	05/26/09	1
Benzo(a)pyrene	BDL	10.	ug/l	8270C	05/26/09	1
Bis(2-chlorethoxy)methane	BDL	10.	ug/l	8270C	05/26/09	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	8270C	05/26/09	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	8270C	05/26/09	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	8270C	05/26/09	1
2-Chloronaphthalene	BDL	10.	ug/l	8270C	05/26/09	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	8270C	05/26/09	1
Chrysene	BDL	10.	ug/l	8270C	05/26/09	1
Dibenz(a,h)anthracene	BDL	10.	ug/l	8270C	05/26/09	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	8270C	05/26/09	1
2,4-Dinitrotoluene	BDL	10.	ug/l	8270C	05/26/09	1
2,6-Dinitrotoluene	BDL	10.	ug/l	8270C	05/26/09	1
Fluoranthene	BDL	10.	ug/l	8270C	05/26/09	1
Fluorene	BDL	10.	ug/l	8270C	05/26/09	1
Hexachlorobenzene	BDL	10.	ug/l	8270C	05/26/09	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	8270C	05/26/09	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	8270C	05/26/09	1
Hexachloroethane	BDL	10.	ug/l	8270C	05/26/09	1
Indeno(1,2,3-cd)pyrene	BDL	10.	ug/l	8270C	05/26/09	1
Isophorone	BDL	10.	ug/l	8270C	05/26/09	1
Naphthalene	BDL	10.	ug/l	8270C	05/26/09	1
Nitrobenzene	BDL	10.	ug/l	8270C	05/26/09	1
n-Nitrosodimethylamine	BDL	50.	ug/l	8270C	05/26/09	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	8270C	05/26/09	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	8270C	05/26/09	1
Phenanthrene	BDL	10.	ug/l	8270C	05/26/09	1
Benzylbutyl phthalate	BDL	10.	ug/l	8270C	05/26/09	1
Bis(2-ethylhexyl)phthalate	BDL	10.	ug/l	8270C	05/26/09	1
Di-n-butyl phthalate	BDL	10.	ug/l	8270C	05/26/09	1
Diethyl phthalate	BDL	10.	ug/l	8270C	05/26/09	1
Dimethyl phthalate	BDL	10.	ug/l	8270C	05/26/09	1
Di-n-octyl phthalate	BDL	10.	ug/l	8270C	05/26/09	1
Pyrene	BDL	10.	ug/l	8270C	05/26/09	1
1,2,4-Trichlorobenzene	BDL	10.	ug/l	8270C	05/26/09	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	8270C	05/26/09	1
2-Chlorophenol	BDL	10.	ug/l	8270C	05/26/09	1
2,4-Dichlorophenol	BDL	10.	ug/l	8270C	05/26/09	1
2,4-Dimethylphenol	BDL	10.	ug/l	8270C	05/26/09	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	8270C	05/26/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Est. 1970

REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-11

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-4

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 10:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2,4-Dinitrophenol	BDL	10.	ug/l	8270C	05/26/09	1
2-Nitrophenol	BDL	10.	ug/l	8270C	05/26/09	1
4-Nitrophenol	BDL	10.	ug/l	8270C	05/26/09	1
Pentachlorophenol	BDL	10.	ug/l	8270C	05/26/09	1
Phenol	BDL	10.	ug/l	8270C	05/26/09	1
2,4,6-Trichlorophenol	BDL	10.	ug/l	8270C	05/26/09	1
Surrogate Recovery						
2-Fluorophenol	33.1		% Rec.	8270C	05/26/09	1
Phenol-d5	20.8		% Rec.	8270C	05/26/09	1
Nitrobenzene-d5	68.9		% Rec.	8270C	05/26/09	1
2-Fluorobiphenyl	87.7		% Rec.	8270C	05/26/09	1
2,4,6-Tribromophenol	89.2		% Rec.	8270C	05/26/09	1
p-Terphenyl-d14	118.		% Rec.	8270C	05/26/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

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Reported: 06/04/09 11:10 Revised: 06/04/09 15:25

ENVIRONMENTAL
SCIENCE CORP.

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-12

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-5

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 12:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.20	ug/l	7470A	05/26/09	1
Arsenic	24.	20.	ug/l	6010B	06/02/09	1
Barium	91.	5.0	ug/l	6010B	06/02/09	1
Cadmium	BDL	5.0	ug/l	6010B	06/02/09	1
Chromium	14.	10.	ug/l	6010B	06/02/09	1
Lead	BDL	5.0	ug/l	6010B	06/02/09	1
Selenium	22.	20.	ug/l	6010B	06/02/09	1
Silver	BDL	10.	ug/l	6010B	06/02/09	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	05/24/09	1
Acrolein	BDL	50.	ug/l	8260B	05/24/09	1
Acrylonitrile	BDL	10.	ug/l	8260B	05/24/09	1
Benzene	BDL	1.0	ug/l	8260B	05/24/09	1
Bromobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	05/24/09	1
Bromoform	BDL	1.0	ug/l	8260B	05/24/09	1
Bromomethane	BDL	5.0	ug/l	8260B	05/24/09	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	05/24/09	1
Chlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	05/24/09	1
Chloroethane	BDL	5.0	ug/l	8260B	05/24/09	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	05/24/09	1
Chloroform	BDL	5.0	ug/l	8260B	05/24/09	1
Chloromethane	BDL	2.5	ug/l	8260B	05/24/09	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	05/24/09	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	05/24/09	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	05/24/09	1
Dibromomethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	05/24/09	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-12

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-5

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 12:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	05/24/09	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Hexachloro-1,3-Butadiene	BDL	1.0	ug/l	8260B	05/24/09	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	05/24/09	1
2-Butanone (MEK)	BDL	10.	ug/l	8260B	05/24/09	1
Methylene Chloride	BDL	5.0	ug/l	8260B	05/24/09	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	05/24/09	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	05/24/09	1
Naphthalene	BDL	5.0	ug/l	8260B	05/24/09	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Styrene	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	1.0	ug/l	8260B	05/24/09	1
Tetrachloroethene	31.	1.0	ug/l	8260B	05/24/09	1
Toluene	BDL	5.0	ug/l	8260B	05/24/09	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
Trichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	05/24/09	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Vinyl chloride	BDL	1.0	ug/l	8260B	05/24/09	1
Xylenes, Total	BDL	3.0	ug/l	8260B	05/24/09	1
Surrogate Recovery						
Toluene-d8	100.		% Rec.	8260B	05/24/09	1
Dibromofluoromethane	99.9		% Rec.	8260B	05/24/09	1
4-Bromofluorobenzene	97.8		% Rec.	8260B	05/24/09	1
Base/Neutral Extractables						
Acenaphthene	BDL	10.	ug/l	8270C	05/28/09	1
Acenaphthylene	BDL	10.	ug/l	8270C	05/28/09	1
Anthracene	BDL	10.	ug/l	8270C	05/28/09	1
Benzidine	BDL	50.	ug/l	8270C	05/28/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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SCIENCE CORP.

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-12

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-5

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 12:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(a)anthracene	BDL	10.	ug/l	8270C	05/28/09	1
Benzo(b)fluoranthene	BDL	10.	ug/l	8270C	05/28/09	1
Benzo(k)fluoranthene	BDL	10.	ug/l	8270C	05/28/09	1
Benzo(g,h,i)perylene	BDL	10.	ug/l	8270C	05/28/09	1
Benzo(a)pyrene	BDL	10.	ug/l	8270C	05/28/09	1
Bis(2-chlorethoxy)methane	BDL	10.	ug/l	8270C	05/28/09	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	8270C	05/28/09	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	8270C	05/28/09	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	8270C	05/28/09	1
2-Chloronaphthalene	BDL	10.	ug/l	8270C	05/28/09	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	8270C	05/28/09	1
Chrysene	BDL	10.	ug/l	8270C	05/28/09	1
Dibenz(a,h)anthracene	BDL	10.	ug/l	8270C	05/28/09	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	8270C	05/28/09	1
2,4-Dinitrotoluene	BDL	10.	ug/l	8270C	05/28/09	1
2,6-Dinitrotoluene	BDL	10.	ug/l	8270C	05/28/09	1
Fluoranthene	BDL	10.	ug/l	8270C	05/28/09	1
Fluorene	BDL	10.	ug/l	8270C	05/28/09	1
Hexachlorobenzene	BDL	10.	ug/l	8270C	05/28/09	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	8270C	05/28/09	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	8270C	05/28/09	1
Hexachloroethane	BDL	10.	ug/l	8270C	05/28/09	1
Indeno(1,2,3-cd)pyrene	BDL	10.	ug/l	8270C	05/28/09	1
Isophorone	BDL	10.	ug/l	8270C	05/28/09	1
Naphthalene	BDL	10.	ug/l	8270C	05/28/09	1
Nitrobenzene	BDL	10.	ug/l	8270C	05/28/09	1
n-Nitrosodimethylamine	BDL	50.	ug/l	8270C	05/28/09	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	8270C	05/28/09	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	8270C	05/28/09	1
Phenanthrene	BDL	10.	ug/l	8270C	05/28/09	1
Benzylbutyl phthalate	BDL	10.	ug/l	8270C	05/28/09	1
Bis(2-ethylhexyl)phthalate	BDL	10.	ug/l	8270C	05/28/09	1
Di-n-butyl phthalate	BDL	10.	ug/l	8270C	05/28/09	1
Diethyl phthalate	BDL	10.	ug/l	8270C	05/28/09	1
Dimethyl phthalate	BDL	10.	ug/l	8270C	05/28/09	1
Di-n-octyl phthalate	BDL	10.	ug/l	8270C	05/28/09	1
Pyrene	BDL	10.	ug/l	8270C	05/28/09	1
1,2,4-Trichlorobenzene	BDL	10.	ug/l	8270C	05/28/09	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	8270C	05/28/09	1
2-Chlorophenol	BDL	10.	ug/l	8270C	05/28/09	1
2,4-Dichlorophenol	BDL	10.	ug/l	8270C	05/28/09	1
2,4-Dimethylphenol	BDL	10.	ug/l	8270C	05/28/09	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	8270C	05/28/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Est. 1970

REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-12

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-5

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 12:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2,4-Dinitrophenol	BDL	10.	ug/l	8270C	05/28/09	1
2-Nitrophenol	BDL	10.	ug/l	8270C	05/28/09	1
4-Nitrophenol	BDL	10.	ug/l	8270C	05/28/09	1
Pentachlorophenol	BDL	10.	ug/l	8270C	05/28/09	1
Phenol	BDL	10.	ug/l	8270C	05/28/09	1
2,4,6-Trichlorophenol	BDL	10.	ug/l	8270C	05/28/09	1
Surrogate Recovery						
2-Fluorophenol	21.6		% Rec.	8270C	05/28/09	1
Phenol-d5	13.8		% Rec.	8270C	05/28/09	1
Nitrobenzene-d5	29.2		% Rec.	8270C	05/28/09	1
2-Fluorobiphenyl	46.4		% Rec.	8270C	05/28/09	1
2,4,6-Tribromophenol	62.8		% Rec.	8270C	05/28/09	1
p-Terphenyl-d14	78.1		% Rec.	8270C	05/28/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

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Reported: 06/04/09 11:10 Revised: 06/04/09 15:25

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-13

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-6

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 13:35

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.20	ug/l	7470A	05/26/09	1
Arsenic	BDL	20.	ug/l	6010B	06/02/09	1
Barium	71.	5.0	ug/l	6010B	06/02/09	1
Cadmium	BDL	5.0	ug/l	6010B	06/02/09	1
Chromium	BDL	10.	ug/l	6010B	06/02/09	1
Lead	BDL	5.0	ug/l	6010B	06/02/09	1
Selenium	BDL	20.	ug/l	6010B	06/02/09	1
Silver	BDL	10.	ug/l	6010B	06/02/09	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	05/24/09	1
Acrolein	BDL	50.	ug/l	8260B	05/24/09	1
Acrylonitrile	BDL	10.	ug/l	8260B	05/24/09	1
Benzene	BDL	1.0	ug/l	8260B	05/24/09	1
Bromobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	05/24/09	1
Bromoform	BDL	1.0	ug/l	8260B	05/24/09	1
Bromomethane	BDL	5.0	ug/l	8260B	05/24/09	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	05/24/09	1
Chlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	05/24/09	1
Chloroethane	BDL	5.0	ug/l	8260B	05/24/09	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	05/24/09	1
Chloroform	BDL	5.0	ug/l	8260B	05/24/09	1
Chloromethane	BDL	2.5	ug/l	8260B	05/24/09	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	05/24/09	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	05/24/09	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	05/24/09	1
Dibromomethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	05/24/09	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
SCIENCE CORP.

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-13

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-6

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 13:35

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	05/24/09	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Hexachloro-1,3-Butadiene	BDL	1.0	ug/l	8260B	05/24/09	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	05/24/09	1
2-Butanone (MEK)	BDL	10.	ug/l	8260B	05/24/09	1
Methylene Chloride	BDL	5.0	ug/l	8260B	05/24/09	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	05/24/09	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	05/24/09	1
Naphthalene	BDL	5.0	ug/l	8260B	05/24/09	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Styrene	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	1.0	ug/l	8260B	05/24/09	1
Tetrachloroethene	18.	1.0	ug/l	8260B	05/24/09	1
Toluene	BDL	5.0	ug/l	8260B	05/24/09	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
Trichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	05/24/09	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Vinyl chloride	BDL	1.0	ug/l	8260B	05/24/09	1
Xylenes, Total	BDL	3.0	ug/l	8260B	05/24/09	1
Surrogate Recovery						
Toluene-d8	99.3		% Rec.	8260B	05/24/09	1
Dibromofluoromethane	103.		% Rec.	8260B	05/24/09	1
4-Bromofluorobenzene	94.3		% Rec.	8260B	05/24/09	1
Base/Neutral Extractables						
Acenaphthene	BDL	10.	ug/l	8270C	05/28/09	1
Acenaphthylene	BDL	10.	ug/l	8270C	05/28/09	1
Anthracene	BDL	10.	ug/l	8270C	05/28/09	1
Benzidine	BDL	50.	ug/l	8270C	05/28/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
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12065 Lebanon Rd.
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-13

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-6

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 13:35

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(a)anthracene	BDL	10.	ug/l	8270C	05/28/09	1
Benzo(b)fluoranthene	BDL	10.	ug/l	8270C	05/28/09	1
Benzo(k)fluoranthene	BDL	10.	ug/l	8270C	05/28/09	1
Benzo(g,h,i)perylene	BDL	10.	ug/l	8270C	05/28/09	1
Benzo(a)pyrene	BDL	10.	ug/l	8270C	05/28/09	1
Bis(2-chlorethoxy)methane	BDL	10.	ug/l	8270C	05/28/09	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	8270C	05/28/09	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	8270C	05/28/09	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	8270C	05/28/09	1
2-Chloronaphthalene	BDL	10.	ug/l	8270C	05/28/09	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	8270C	05/28/09	1
Chrysene	BDL	10.	ug/l	8270C	05/28/09	1
Dibenz(a,h)anthracene	BDL	10.	ug/l	8270C	05/28/09	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	8270C	05/28/09	1
2,4-Dinitrotoluene	BDL	10.	ug/l	8270C	05/28/09	1
2,6-Dinitrotoluene	BDL	10.	ug/l	8270C	05/28/09	1
Fluoranthene	BDL	10.	ug/l	8270C	05/28/09	1
Fluorene	BDL	10.	ug/l	8270C	05/28/09	1
Hexachlorobenzene	BDL	10.	ug/l	8270C	05/28/09	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	8270C	05/28/09	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	8270C	05/28/09	1
Hexachloroethane	BDL	10.	ug/l	8270C	05/28/09	1
Indeno(1,2,3-cd)pyrene	BDL	10.	ug/l	8270C	05/28/09	1
Isophorone	BDL	10.	ug/l	8270C	05/28/09	1
Naphthalene	BDL	10.	ug/l	8270C	05/28/09	1
Nitrobenzene	BDL	10.	ug/l	8270C	05/28/09	1
n-Nitrosodimethylamine	BDL	50.	ug/l	8270C	05/28/09	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	8270C	05/28/09	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	8270C	05/28/09	1
Phenanthrene	BDL	10.	ug/l	8270C	05/28/09	1
Benzylbutyl phthalate	BDL	10.	ug/l	8270C	05/28/09	1
Bis(2-ethylhexyl)phthalate	BDL	10.	ug/l	8270C	05/28/09	1
Di-n-butyl phthalate	BDL	10.	ug/l	8270C	05/28/09	1
Diethyl phthalate	BDL	10.	ug/l	8270C	05/28/09	1
Dimethyl phthalate	BDL	10.	ug/l	8270C	05/28/09	1
Di-n-octyl phthalate	BDL	10.	ug/l	8270C	05/28/09	1
Pyrene	BDL	10.	ug/l	8270C	05/28/09	1
1,2,4-Trichlorobenzene	BDL	10.	ug/l	8270C	05/28/09	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	8270C	05/28/09	1
2-Chlorophenol	BDL	10.	ug/l	8270C	05/28/09	1
2,4-Dichlorophenol	BDL	10.	ug/l	8270C	05/28/09	1
2,4-Dimethylphenol	BDL	10.	ug/l	8270C	05/28/09	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	8270C	05/28/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-13

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-6

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 13:35

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2,4-Dinitrophenol	BDL	10.	ug/l	8270C	05/28/09	1
2-Nitrophenol	BDL	10.	ug/l	8270C	05/28/09	1
4-Nitrophenol	BDL	10.	ug/l	8270C	05/28/09	1
Pentachlorophenol	BDL	10.	ug/l	8270C	05/28/09	1
Phenol	BDL	10.	ug/l	8270C	05/28/09	1
2,4,6-Trichlorophenol	BDL	10.	ug/l	8270C	05/28/09	1
Surrogate Recovery						
2-Fluorophenol	23.2		% Rec.	8270C	05/28/09	1
Phenol-d5	14.5		% Rec.	8270C	05/28/09	1
Nitrobenzene-d5	32.5		% Rec.	8270C	05/28/09	1
2-Fluorobiphenyl	49.3		% Rec.	8270C	05/28/09	1
2,4,6-Tribromophenol	68.2		% Rec.	8270C	05/28/09	1
p-Terphenyl-d14	82.9		% Rec.	8270C	05/28/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

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Reported: 06/04/09 11:10 Revised: 06/04/09 15:25

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-14

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : TB-3

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	05/24/09	1
Acrolein	BDL	50.	ug/l	8260B	05/24/09	1
Acrylonitrile	BDL	10.	ug/l	8260B	05/24/09	1
Benzene	BDL	1.0	ug/l	8260B	05/24/09	1
Bromobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	05/24/09	1
Bromoform	BDL	1.0	ug/l	8260B	05/24/09	1
Bromomethane	BDL	5.0	ug/l	8260B	05/24/09	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	05/24/09	1
Chlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	05/24/09	1
Chloroethane	BDL	5.0	ug/l	8260B	05/24/09	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	05/24/09	1
Chloroform	BDL	5.0	ug/l	8260B	05/24/09	1
Chloromethane	BDL	2.5	ug/l	8260B	05/24/09	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	05/24/09	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	05/24/09	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	05/24/09	1
Dibromomethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	05/24/09	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	05/24/09	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Hexachloro-1,3-Butadiene	BDL	1.0	ug/l	8260B	05/24/09	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	05/24/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-14

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : TB-3

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	10.	ug/l	8260B	05/24/09	1
Methylene Chloride	BDL	5.0	ug/l	8260B	05/24/09	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	05/24/09	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	05/24/09	1
Naphthalene	BDL	5.0	ug/l	8260B	05/24/09	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Styrene	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	1.0	ug/l	8260B	05/24/09	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
Toluene	BDL	5.0	ug/l	8260B	05/24/09	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
Trichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	05/24/09	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Vinyl chloride	BDL	1.0	ug/l	8260B	05/24/09	1
Xylenes, Total	BDL	3.0	ug/l	8260B	05/24/09	1
Surrogate Recovery						
Toluene-d8	100.		% Rec.	8260B	05/24/09	1
Dibromofluoromethane	96.5		% Rec.	8260B	05/24/09	1
4-Bromofluorobenzene	105.		% Rec.	8260B	05/24/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

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Reported: 06/04/09 11:10 Revised: 06/04/09 15:25

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-15

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : TB-2

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	05/24/09	1
Acrolein	BDL	50.	ug/l	8260B	05/24/09	1
Acrylonitrile	BDL	10.	ug/l	8260B	05/24/09	1
Benzene	BDL	1.0	ug/l	8260B	05/24/09	1
Bromobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	05/24/09	1
Bromoform	BDL	1.0	ug/l	8260B	05/24/09	1
Bromomethane	BDL	5.0	ug/l	8260B	05/24/09	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	05/24/09	1
Chlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	05/24/09	1
Chloroethane	BDL	5.0	ug/l	8260B	05/24/09	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	05/24/09	1
Chloroform	BDL	5.0	ug/l	8260B	05/24/09	1
Chloromethane	BDL	2.5	ug/l	8260B	05/24/09	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	05/24/09	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	05/24/09	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	05/24/09	1
Dibromomethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	05/24/09	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	05/24/09	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Hexachloro-1,3-Butadiene	BDL	1.0	ug/l	8260B	05/24/09	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	05/24/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-15

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : TB-2

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	10.	ug/l	8260B	05/24/09	1
Methylene Chloride	BDL	5.0	ug/l	8260B	05/24/09	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	05/24/09	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	05/24/09	1
Naphthalene	BDL	5.0	ug/l	8260B	05/24/09	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Styrene	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	1.0	ug/l	8260B	05/24/09	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
Toluene	BDL	5.0	ug/l	8260B	05/24/09	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
Trichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	05/24/09	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Vinyl chloride	BDL	1.0	ug/l	8260B	05/24/09	1
Xylenes, Total	BDL	3.0	ug/l	8260B	05/24/09	1
Surrogate Recovery						
Toluene-d8	96.8		% Rec.	8260B	05/24/09	1
Dibromofluoromethane	99.2		% Rec.	8260B	05/24/09	1
4-Bromofluorobenzene	100.		% Rec.	8260B	05/24/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

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Reported: 06/04/09 11:10 Revised: 06/04/09 15:25

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Est. 1970

REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-16

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : TRIPBLANK-1

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	05/24/09	1
Acrolein	BDL	50.	ug/l	8260B	05/24/09	1
Acrylonitrile	BDL	10.	ug/l	8260B	05/24/09	1
Benzene	BDL	1.0	ug/l	8260B	05/24/09	1
Bromobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	05/24/09	1
Bromoform	BDL	1.0	ug/l	8260B	05/24/09	1
Bromomethane	BDL	5.0	ug/l	8260B	05/24/09	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	05/24/09	1
Chlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	05/24/09	1
Chloroethane	BDL	5.0	ug/l	8260B	05/24/09	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	05/24/09	1
Chloroform	BDL	5.0	ug/l	8260B	05/24/09	1
Chloromethane	BDL	2.5	ug/l	8260B	05/24/09	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	05/24/09	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	05/24/09	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	05/24/09	1
Dibromomethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	05/24/09	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/24/09	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	05/24/09	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Hexachloro-1,3-Butadiene	BDL	1.0	ug/l	8260B	05/24/09	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	05/24/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Mt. Juliet, TN 37122
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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 04,2009

ESC Sample # : L404086-16

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : TRIPBLANK-1

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	10.	ug/l	8260B	05/24/09	1
Methylene Chloride	BDL	5.0	ug/l	8260B	05/24/09	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	05/24/09	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	05/24/09	1
Naphthalene	BDL	5.0	ug/l	8260B	05/24/09	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Styrene	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	1.0	ug/l	8260B	05/24/09	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
Toluene	BDL	5.0	ug/l	8260B	05/24/09	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	05/24/09	1
Trichloroethene	BDL	1.0	ug/l	8260B	05/24/09	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	05/24/09	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/24/09	1
Vinyl chloride	BDL	1.0	ug/l	8260B	05/24/09	1
Xylenes, Total	BDL	3.0	ug/l	8260B	05/24/09	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	05/24/09	1
Dibromofluoromethane	99.6		% Rec.	8260B	05/24/09	1
4-Bromofluorobenzene	94.1		% Rec.	8260B	05/24/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

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Reported: 06/04/09 11:10 Revised: 06/04/09 15:25

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L404086-01	WG423648	SAMP	Arsenic	R767466	O
	WG424615	SAMP	Selenium	R771026	O
	WG423636	SAMP	Isophorone	R760706	J4
	WG423636	SAMP	n-Nitrosodiphenylamine	R760706	J4
	WG423636	SAMP	2,4-Dimethylphenol	R760706	J5
L404086-02	WG423648	SAMP	Arsenic	R767466	O
	WG424615	SAMP	Selenium	R771026	O
	WG423636	SAMP	Isophorone	R760706	J4
	WG423636	SAMP	n-Nitrosodiphenylamine	R760706	J4
L404086-03	WG423648	SAMP	Arsenic	R767466	O
	WG424615	SAMP	Selenium	R771026	O
	WG423636	SAMP	Isophorone	R760706	J4
	WG423636	SAMP	n-Nitrosodiphenylamine	R760706	J4
L404086-04	WG423648	SAMP	Arsenic	R767466	O
	WG424615	SAMP	Selenium	R771026	O
	WG423636	SAMP	Isophorone	R760706	J4
	WG423636	SAMP	n-Nitrosodiphenylamine	R760706	J4
L404086-05	WG423648	SAMP	Arsenic	R767466	O
	WG424615	SAMP	Selenium	R771026	O
	WG423648	SAMP	Silver	R767466	O
	WG423636	SAMP	Isophorone	R760706	J4
	WG423636	SAMP	n-Nitrosodiphenylamine	R760706	J4
L404086-06	WG423648	SAMP	Arsenic	R767466	O
	WG424615	SAMP	Selenium	R771026	O
	WG423636	SAMP	Isophorone	R760706	J4
	WG423636	SAMP	n-Nitrosodiphenylamine	R760706	J4
L404086-08	WG423248	SAMP	Fluoranthene	R755647	J4
	WG423248	SAMP	2,4-Dimethylphenol	R755647	J4
L404086-09	WG423343	SAMP	2,4-Dimethylphenol	R755648	J4
L404086-10	WG423343	SAMP	2,4-Dimethylphenol	R755648	J4
L404086-11	WG423343	SAMP	2,4-Dimethylphenol	R755648	J4
L404086-12	WG423641	SAMP	4-Chloro-3-methylphenol	R760707	J3
L404086-13	WG423914	SAMP	Chromium	R770986	P1
	WG423914	SAMP	Silver	R770986	J6
	WG423641	SAMP	4-Chloro-3-methylphenol	R760707	J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC.
Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
06/04/09 at 15:25:43

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L404086-01 Account: SECORTOR Received: 05/22/09 09:00 Due Date: 06/01/09 00:00 RPT Date: 06/04/09 11:10

Sample: L404086-02 Account: SECORTOR Received: 05/22/09 09:00 Due Date: 06/01/09 00:00 RPT Date: 06/04/09 11:10

Sample: L404086-03 Account: SECORTOR Received: 05/22/09 09:00 Due Date: 06/01/09 00:00 RPT Date: 06/04/09 11:10

Sample: L404086-04 Account: SECORTOR Received: 05/22/09 09:00 Due Date: 06/01/09 00:00 RPT Date: 06/04/09 11:10

Sample: L404086-05 Account: SECORTOR Received: 05/22/09 09:00 Due Date: 06/01/09 00:00 RPT Date: 06/04/09 11:10

Sample: L404086-06 Account: SECORTOR Received: 05/22/09 09:00 Due Date: 06/01/09 00:00 RPT Date: 06/04/09 11:10

Sample: L404086-07 Account: SECORTOR Received: 05/22/09 09:00 Due Date: 06/01/09 00:00 RPT Date: 06/04/09 11:10
HOLD all analysis.

Sample: L404086-08 Account: SECORTOR Received: 05/22/09 09:00 Due Date: 06/01/09 00:00 RPT Date: 06/04/09 11:10

Sample: L404086-09 Account: SECORTOR Received: 05/22/09 09:00 Due Date: 06/01/09 00:00 RPT Date: 06/04/09 11:10

Sample: L404086-10 Account: SECORTOR Received: 05/22/09 09:00 Due Date: 06/01/09 00:00 RPT Date: 06/04/09 11:10

Sample: L404086-11 Account: SECORTOR Received: 05/22/09 09:00 Due Date: 06/01/09 00:00 RPT Date: 06/04/09 11:10

Sample: L404086-12 Account: SECORTOR Received: 05/22/09 09:00 Due Date: 06/01/09 00:00 RPT Date: 06/04/09 11:10

Sample: L404086-13 Account: SECORTOR Received: 05/22/09 09:00 Due Date: 06/01/09 00:00 RPT Date: 06/04/09 11:10

Sample: L404086-14 Account: SECORTOR Received: 05/22/09 09:00 Due Date: 06/01/09 00:00 RPT Date: 06/04/09 11:10

Sample: L404086-15 Account: SECORTOR Received: 05/22/09 09:00 Due Date: 06/01/09 00:00 RPT Date: 06/04/09 11:10

Sample: L404086-16 Account: SECORTOR Received: 05/22/09 09:00 Due Date: 06/01/09 00:00 RPT Date: 06/04/09 11:10

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Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

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Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404086

June 04, 2009

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG423255	05/24/09 12:06
1,1,1-Trichloroethane	< .001	mg/l			WG423255	05/24/09 12:06
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG423255	05/24/09 12:06
1,1,2-Trichloroethane	< .001	mg/l			WG423255	05/24/09 12:06
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/l			WG423255	05/24/09 12:06
1,1-Dichloroethane	< .001	mg/l			WG423255	05/24/09 12:06
1,1-Dichloroethene	< .001	mg/l			WG423255	05/24/09 12:06
1,1-Dichloropropene	< .001	mg/l			WG423255	05/24/09 12:06
1,2,3-Trichlorobenzene	< .001	mg/l			WG423255	05/24/09 12:06
1,2,3-Trichloropropane	< .001	mg/l			WG423255	05/24/09 12:06
1,2,3-Trimethylbenzene	< .001	mg/l			WG423255	05/24/09 12:06
1,2,4-Trichlorobenzene	< .001	mg/l			WG423255	05/24/09 12:06
1,2,4-Trimethylbenzene	< .001	mg/l			WG423255	05/24/09 12:06
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG423255	05/24/09 12:06
1,2-Dibromoethane	< .001	mg/l			WG423255	05/24/09 12:06
1,2-Dichlorobenzene	< .001	mg/l			WG423255	05/24/09 12:06
1,2-Dichloroethane	< .001	mg/l			WG423255	05/24/09 12:06
1,2-Dichloropropane	< .001	mg/l			WG423255	05/24/09 12:06
1,3,5-Trimethylbenzene	< .001	mg/l			WG423255	05/24/09 12:06
1,3-Dichlorobenzene	< .001	mg/l			WG423255	05/24/09 12:06
1,3-Dichloropropane	< .001	mg/l			WG423255	05/24/09 12:06
1,4-Dichlorobenzene	< .001	mg/l			WG423255	05/24/09 12:06
2,2-Dichloropropane	< .001	mg/l			WG423255	05/24/09 12:06
2-Butanone (MEK)	< .01	mg/l			WG423255	05/24/09 12:06
2-Chloroethyl vinyl ether	< .001	mg/l			WG423255	05/24/09 12:06
2-Chlorotoluene	< .001	mg/l			WG423255	05/24/09 12:06
4-Chlorotoluene	< .001	mg/l			WG423255	05/24/09 12:06
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG423255	05/24/09 12:06
Acetone	< .05	mg/l			WG423255	05/24/09 12:06
Acrolein	< .05	mg/l			WG423255	05/24/09 12:06
Acrylonitrile	< .01	mg/l			WG423255	05/24/09 12:06
Benzene	< .001	mg/l			WG423255	05/24/09 12:06
Bromobenzene	< .001	mg/l			WG423255	05/24/09 12:06
Bromodichloromethane	< .001	mg/l			WG423255	05/24/09 12:06
Bromoform	< .001	mg/l			WG423255	05/24/09 12:06
Bromomethane	< .005	mg/l			WG423255	05/24/09 12:06
Carbon tetrachloride	< .001	mg/l			WG423255	05/24/09 12:06
Chlorobenzene	< .001	mg/l			WG423255	05/24/09 12:06
Chlorodibromomethane	< .001	mg/l			WG423255	05/24/09 12:06
Chloroethane	< .001	mg/l			WG423255	05/24/09 12:06
Chloroform	< .005	mg/l			WG423255	05/24/09 12:06
Chloromethane	< .001	mg/l			WG423255	05/24/09 12:06
cis-1,2-Dichloroethene	< .001	mg/l			WG423255	05/24/09 12:06
cis-1,3-Dichloropropene	< .001	mg/l			WG423255	05/24/09 12:06
Di-isopropyl ether	< .001	mg/l			WG423255	05/24/09 12:06
Dibromomethane	< .001	mg/l			WG423255	05/24/09 12:06
Dichlorodifluoromethane	< .005	mg/l			WG423255	05/24/09 12:06
Ethylbenzene	< .001	mg/l			WG423255	05/24/09 12:06
Hexachloro-1,3-Butadiene	< .001	mg/l			WG423255	05/24/09 12:06
Isopropylbenzene	< .001	mg/l			WG423255	05/24/09 12:06
Methyl tert-butyl ether	< .001	mg/l			WG423255	05/24/09 12:06
Methylene Chloride	< .005	mg/l			WG423255	05/24/09 12:06
n-Butylbenzene	< .001	mg/l			WG423255	05/24/09 12:06
n-Propylbenzene	< .001	mg/l			WG423255	05/24/09 12:06
Naphthalene	< .005	mg/l			WG423255	05/24/09 12:06
p-Isopropyltoluene	< .001	mg/l			WG423255	05/24/09 12:06
sec-Butylbenzene	< .001	mg/l			WG423255	05/24/09 12:06
Styrene	< .001	mg/l			WG423255	05/24/09 12:06
tert-Butylbenzene	< .001	mg/l			WG423255	05/24/09 12:06

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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1-800-767-5859
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Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404086

June 04, 2009

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Tetrachloroethene	< .001	mg/l			WG423255	05/24/09 12:06
Toluene	< .005	mg/l			WG423255	05/24/09 12:06
trans-1,2-Dichloroethene	< .001	mg/l			WG423255	05/24/09 12:06
trans-1,3-Dichloropropene	< .001	mg/l			WG423255	05/24/09 12:06
Trichloroethene	< .001	mg/l			WG423255	05/24/09 12:06
Trichlorofluoromethane	< .005	mg/l			WG423255	05/24/09 12:06
Vinyl chloride	< .001	mg/l			WG423255	05/24/09 12:06
4-Bromofluorobenzene		% Rec.	101.8	75-128	WG423255	05/24/09 12:06
Dibromofluoromethane		% Rec.	97.32	79-125	WG423255	05/24/09 12:06
Toluene-d8		% Rec.	98.05	87-114	WG423255	05/24/09 12:06
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG423281	05/24/09 22:21
1,1,1-Trichloroethane	< .001	mg/l			WG423281	05/24/09 22:21
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG423281	05/24/09 22:21
1,1,2-Trichloroethane	< .001	mg/l			WG423281	05/24/09 22:21
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/l			WG423281	05/24/09 22:21
1,1-Dichloroethane	< .001	mg/l			WG423281	05/24/09 22:21
1,1-Dichloroethene	< .001	mg/l			WG423281	05/24/09 22:21
1,1-Dichloropropene	< .001	mg/l			WG423281	05/24/09 22:21
1,2,3-Trichlorobenzene	< .001	mg/l			WG423281	05/24/09 22:21
1,2,3-Trichloropropane	< .001	mg/l			WG423281	05/24/09 22:21
1,2,3-Trimethylbenzene	< .001	mg/l			WG423281	05/24/09 22:21
1,2,4-Trichlorobenzene	< .001	mg/l			WG423281	05/24/09 22:21
1,2,4-Trimethylbenzene	< .001	mg/l			WG423281	05/24/09 22:21
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG423281	05/24/09 22:21
1,2-Dibromoethane	< .001	mg/l			WG423281	05/24/09 22:21
1,2-Dichlorobenzene	< .001	mg/l			WG423281	05/24/09 22:21
1,2-Dichloroethane	< .001	mg/l			WG423281	05/24/09 22:21
1,2-Dichloropropane	< .001	mg/l			WG423281	05/24/09 22:21
1,3,5-Trimethylbenzene	< .001	mg/l			WG423281	05/24/09 22:21
1,3-Dichlorobenzene	< .001	mg/l			WG423281	05/24/09 22:21
1,3-Dichloropropane	< .001	mg/l			WG423281	05/24/09 22:21
1,4-Dichlorobenzene	< .001	mg/l			WG423281	05/24/09 22:21
2,2-Dichloropropane	< .001	mg/l			WG423281	05/24/09 22:21
2-Butanone (MEK)	< .01	mg/l			WG423281	05/24/09 22:21
2-Chloroethyl vinyl ether	< .001	mg/l			WG423281	05/24/09 22:21
2-Chlorotoluene	< .001	mg/l			WG423281	05/24/09 22:21
4-Chlorotoluene	< .001	mg/l			WG423281	05/24/09 22:21
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG423281	05/24/09 22:21
Acetone	< .05	mg/l			WG423281	05/24/09 22:21
Acrolein	< .05	mg/l			WG423281	05/24/09 22:21
Acrylonitrile	< .01	mg/l			WG423281	05/24/09 22:21
Benzene	< .001	mg/l			WG423281	05/24/09 22:21
Bromobenzene	< .001	mg/l			WG423281	05/24/09 22:21
Bromodichloromethane	< .001	mg/l			WG423281	05/24/09 22:21
Bromoform	< .001	mg/l			WG423281	05/24/09 22:21
Bromomethane	< .005	mg/l			WG423281	05/24/09 22:21
Carbon tetrachloride	< .001	mg/l			WG423281	05/24/09 22:21
Chlorobenzene	< .001	mg/l			WG423281	05/24/09 22:21
Chlorodibromomethane	< .001	mg/l			WG423281	05/24/09 22:21
Chloroethane	< .001	mg/l			WG423281	05/24/09 22:21
Chloroform	< .005	mg/l			WG423281	05/24/09 22:21
Chloromethane	< .001	mg/l			WG423281	05/24/09 22:21
cis-1,2-Dichloroethene	< .001	mg/l			WG423281	05/24/09 22:21
cis-1,3-Dichloropropene	< .001	mg/l			WG423281	05/24/09 22:21
Di-isopropyl ether	< .001	mg/l			WG423281	05/24/09 22:21
Dibromomethane	< .001	mg/l			WG423281	05/24/09 22:21
Dichlorodifluoromethane	< .005	mg/l			WG423281	05/24/09 22:21

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ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404086

June 04, 2009

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Ethylbenzene	< .001	mg/l			WG423281	05/24/09 22:21
Hexachloro-1,3-Butadiene	< .001	mg/l			WG423281	05/24/09 22:21
Isopropylbenzene	< .001	mg/l			WG423281	05/24/09 22:21
Methyl tert-butyl ether	< .001	mg/l			WG423281	05/24/09 22:21
Methylene Chloride	< .005	mg/l			WG423281	05/24/09 22:21
n-Butylbenzene	< .001	mg/l			WG423281	05/24/09 22:21
n-Propylbenzene	< .001	mg/l			WG423281	05/24/09 22:21
Naphthalene	< .005	mg/l			WG423281	05/24/09 22:21
p-Isopropyltoluene	< .001	mg/l			WG423281	05/24/09 22:21
sec-Butylbenzene	< .001	mg/l			WG423281	05/24/09 22:21
Styrene	< .001	mg/l			WG423281	05/24/09 22:21
tert-Butylbenzene	< .001	mg/l			WG423281	05/24/09 22:21
Tetrachloroethene	< .001	mg/l			WG423281	05/24/09 22:21
Toluene	< .005	mg/l			WG423281	05/24/09 22:21
trans-1,2-Dichloroethene	< .001	mg/l			WG423281	05/24/09 22:21
trans-1,3-Dichloropropene	< .001	mg/l			WG423281	05/24/09 22:21
Trichloroethene	< .001	mg/l			WG423281	05/24/09 22:21
Trichlorofluoromethane	< .005	mg/l			WG423281	05/24/09 22:21
Vinyl chloride	< .001	mg/l			WG423281	05/24/09 22:21
4-Bromofluorobenzene		% Rec.	95.92	75-128	WG423281	05/24/09 22:21
Dibromofluoromethane		% Rec.	96.68	79-125	WG423281	05/24/09 22:21
Toluene-d8		% Rec.	103.7	87-114	WG423281	05/24/09 22:21
Mercury	< .0002	mg/l			WG423232	05/26/09 11:27
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG423335	05/25/09 23:47
1,1,1-Trichloroethane	< .001	mg/kg			WG423335	05/25/09 23:47
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG423335	05/25/09 23:47
1,1,2-Trichloroethane	< .001	mg/kg			WG423335	05/25/09 23:47
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/kg			WG423335	05/25/09 23:47
1,1-Dichloroethane	< .001	mg/kg			WG423335	05/25/09 23:47
1,1-Dichloroethene	< .001	mg/kg			WG423335	05/25/09 23:47
1,1-Dichloropropene	< .001	mg/kg			WG423335	05/25/09 23:47
1,2,3-Trichlorobenzene	< .001	mg/kg			WG423335	05/25/09 23:47
1,2,3-Trichloropropane	< .001	mg/kg			WG423335	05/25/09 23:47
1,2,4-Trichlorobenzene	< .001	mg/kg			WG423335	05/25/09 23:47
1,2,4-Trimethylbenzene	< .001	mg/kg			WG423335	05/25/09 23:47
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG423335	05/25/09 23:47
1,2-Dibromoethane	< .001	mg/kg			WG423335	05/25/09 23:47
1,2-Dichlorobenzene	< .001	mg/kg			WG423335	05/25/09 23:47
1,2-Dichloroethane	< .001	mg/kg			WG423335	05/25/09 23:47
1,2-Dichloropropane	< .001	mg/kg			WG423335	05/25/09 23:47
1,3,5-Trimethylbenzene	< .001	mg/kg			WG423335	05/25/09 23:47
1,3-Dichlorobenzene	< .001	mg/kg			WG423335	05/25/09 23:47
1,3-Dichloropropane	< .001	mg/kg			WG423335	05/25/09 23:47
1,4-Dichlorobenzene	< .001	mg/kg			WG423335	05/25/09 23:47
2,2-Dichloropropane	< .001	mg/kg			WG423335	05/25/09 23:47
2-Butanone (MEK)	< .01	mg/kg			WG423335	05/25/09 23:47
2-Chloroethyl vinyl ether	< .001	mg/kg			WG423335	05/25/09 23:47
2-Chlorotoluene	< .001	mg/kg			WG423335	05/25/09 23:47
4-Chlorotoluene	< .001	mg/kg			WG423335	05/25/09 23:47
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG423335	05/25/09 23:47
Acetone	< .05	mg/kg			WG423335	05/25/09 23:47
Acrylonitrile	< .01	mg/kg			WG423335	05/25/09 23:47
Benzene	< .001	mg/kg			WG423335	05/25/09 23:47
Bromobenzene	< .001	mg/kg			WG423335	05/25/09 23:47
Bromodichloromethane	< .001	mg/kg			WG423335	05/25/09 23:47

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Quality Assurance Report
Level II

L404086

June 04, 2009

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Bromoform	< .001	mg/kg			WG423335	05/25/09 23:47
Bromomethane	< .005	mg/kg			WG423335	05/25/09 23:47
Carbon tetrachloride	< .001	mg/kg			WG423335	05/25/09 23:47
Chlorobenzene	< .001	mg/kg			WG423335	05/25/09 23:47
Chlorodibromomethane	< .001	mg/kg			WG423335	05/25/09 23:47
Chloroethane	< .005	mg/kg			WG423335	05/25/09 23:47
Chloroform	< .005	mg/kg			WG423335	05/25/09 23:47
Chloromethane	< .001	mg/kg			WG423335	05/25/09 23:47
cis-1,2-Dichloroethene	< .001	mg/kg			WG423335	05/25/09 23:47
cis-1,3-Dichloropropene	< .001	mg/kg			WG423335	05/25/09 23:47
Di-isopropyl ether	< .001	mg/kg			WG423335	05/25/09 23:47
Dibromomethane	< .001	mg/kg			WG423335	05/25/09 23:47
Dichlorodifluoromethane	< .005	mg/kg			WG423335	05/25/09 23:47
Ethylbenzene	< .001	mg/kg			WG423335	05/25/09 23:47
Hexachloro-1,3-Butadiene	< .001	mg/kg			WG423335	05/25/09 23:47
Isopropylbenzene	< .001	mg/kg			WG423335	05/25/09 23:47
Methyl tert-butyl ether	< .001	mg/kg			WG423335	05/25/09 23:47
Methylene Chloride	< .005	mg/kg			WG423335	05/25/09 23:47
n-Butylbenzene	< .001	mg/kg			WG423335	05/25/09 23:47
n-Propylbenzene	< .001	mg/kg			WG423335	05/25/09 23:47
Naphthalene	< .005	mg/kg			WG423335	05/25/09 23:47
p-Isopropyltoluene	< .001	mg/kg			WG423335	05/25/09 23:47
sec-Butylbenzene	< .001	mg/kg			WG423335	05/25/09 23:47
Styrene	< .001	mg/kg			WG423335	05/25/09 23:47
tert-Butylbenzene	< .001	mg/kg			WG423335	05/25/09 23:47
Tetrachloroethene	< .001	mg/kg			WG423335	05/25/09 23:47
Toluene	< .005	mg/kg			WG423335	05/25/09 23:47
trans-1,2-Dichloroethene	< .001	mg/kg			WG423335	05/25/09 23:47
trans-1,3-Dichloropropene	< .001	mg/kg			WG423335	05/25/09 23:47
Trichloroethene	< .001	mg/kg			WG423335	05/25/09 23:47
Trichlorofluoromethane	< .005	mg/kg			WG423335	05/25/09 23:47
Vinyl chloride	< .001	mg/kg			WG423335	05/25/09 23:47
4-Bromofluorobenzene		% Rec.	96.15	59-140	WG423335	05/25/09 23:47
Dibromofluoromethane		% Rec.	94.74	63-139	WG423335	05/25/09 23:47
Toluene-d8		% Rec.	101.6	84-116	WG423335	05/25/09 23:47
Mercury	< .02	mg/kg			WG423236	05/26/09 18:56
Mercury	< .02	mg/kg			WG423237	05/26/09 20:08
1,2,4-Trichlorobenzene	< .01	ppm			WG423248	05/26/09 12:25
2,4,6-Trichlorophenol	< .01	ppm			WG423248	05/26/09 12:25
2,4-Dichlorophenol	< .01	ppm			WG423248	05/26/09 12:25
2,4-Dimethylphenol	< .01	ppm			WG423248	05/26/09 12:25
2,4-Dinitrophenol	< .01	ppm			WG423248	05/26/09 12:25
2,4-Dinitrotoluene	< .01	ppm			WG423248	05/26/09 12:25
2,6-Dinitrotoluene	< .01	ppm			WG423248	05/26/09 12:25
2-Chloronaphthalene	< .01	ppm			WG423248	05/26/09 12:25
2-Chlorophenol	< .01	ppm			WG423248	05/26/09 12:25
2-Nitrophenol	< .01	ppm			WG423248	05/26/09 12:25
3,3-Dichlorobenzidine	< .01	ppm			WG423248	05/26/09 12:25
4,6-Dinitro-2-methylphenol	< .01	ppm			WG423248	05/26/09 12:25
4-Bromophenyl-phenylether	< .01	ppm			WG423248	05/26/09 12:25
4-Chloro-3-methylphenol	< .01	ppm			WG423248	05/26/09 12:25
4-Chlorophenyl-phenylether	< .01	ppm			WG423248	05/26/09 12:25
4-Nitrophenol	< .01	ppm			WG423248	05/26/09 12:25

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Level II

L404086

June 04, 2009

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Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Acenaphthene	< .01	ppm			WG423248	05/26/09 12:25
Acenaphthylene	< .01	ppm			WG423248	05/26/09 12:25
Anthracene	< .01	ppm			WG423248	05/26/09 12:25
Benzidine	< .01	ppm			WG423248	05/26/09 12:25
Benzo(a)anthracene	< .01	ppm			WG423248	05/26/09 12:25
Benzo(a)pyrene	< .01	ppm			WG423248	05/26/09 12:25
Benzo(b)fluoranthene	< .01	ppm			WG423248	05/26/09 12:25
Benzo(g,h,i)perylene	< .01	ppm			WG423248	05/26/09 12:25
Benzo(k)fluoranthene	< .01	ppm			WG423248	05/26/09 12:25
Benzylbutyl phthalate	< .01	ppm			WG423248	05/26/09 12:25
Bis(2-chlorethoxy)methane	< .01	ppm			WG423248	05/26/09 12:25
Bis(2-chloroethyl)ether	< .01	ppm			WG423248	05/26/09 12:25
Bis(2-chloroisopropyl)ether	< .01	ppm			WG423248	05/26/09 12:25
Bis(2-ethylhexyl)phthalate	< .01	ppm			WG423248	05/26/09 12:25
Chrysene	< .01	ppm			WG423248	05/26/09 12:25
Di-n-butyl phthalate	< .01	ppm			WG423248	05/26/09 12:25
Di-n-octyl phthalate	< .01	ppm			WG423248	05/26/09 12:25
Dibenz(a,h)anthracene	< .01	ppm			WG423248	05/26/09 12:25
Diethyl phthalate	< .01	ppm			WG423248	05/26/09 12:25
Dimethyl phthalate	< .01	ppm			WG423248	05/26/09 12:25
Fluoranthene	< .01	ppm			WG423248	05/26/09 12:25
Fluorene	< .01	ppm			WG423248	05/26/09 12:25
Hexachloro-1,3-butadiene	< .01	ppm			WG423248	05/26/09 12:25
Hexachlorobenzene	< .01	ppm			WG423248	05/26/09 12:25
Hexachlorocyclopentadiene	< .01	ppm			WG423248	05/26/09 12:25
Hexachloroethane	< .01	ppm			WG423248	05/26/09 12:25
Indeno(1,2,3-cd)pyrene	< .01	ppm			WG423248	05/26/09 12:25
Isophorone	< .01	ppm			WG423248	05/26/09 12:25
n-Nitrosodi-n-propylamine	< .01	ppm			WG423248	05/26/09 12:25
n-Nitrosodimethylamine	< .05	ppm			WG423248	05/26/09 12:25
n-Nitrosodiphenylamine	< .01	ppm			WG423248	05/26/09 12:25
Naphthalene	< .01	ppm			WG423248	05/26/09 12:25
Nitrobenzene	< .01	ppm			WG423248	05/26/09 12:25
Pentachlorophenol	< .01	ppm			WG423248	05/26/09 12:25
Phenanthrene	< .01	ppm			WG423248	05/26/09 12:25
Phenol	< .01	ppm			WG423248	05/26/09 12:25
Pyrene	< .01	ppm			WG423248	05/26/09 12:25
2,4,6-Tribromophenol		% Rec.	82.09	10-148	WG423248	05/26/09 12:25
2-Fluorobiphenyl		% Rec.	83.95	26-122	WG423248	05/26/09 12:25
2-Fluorophenol		% Rec.	40.77	10-87	WG423248	05/26/09 12:25
Nitrobenzene-d5		% Rec.	61.06	12-120	WG423248	05/26/09 12:25
Phenol-d5		% Rec.	26.39	10-67	WG423248	05/26/09 12:25
p-Terphenyl-d14		% Rec.	106.1	34-149	WG423248	05/26/09 12:25
1,2,4-Trichlorobenzene	< .01	ppm			WG423343	05/26/09 11:37
2,4,6-Trichlorophenol	< .01	ppm			WG423343	05/26/09 11:37
2,4-Dichlorophenol	< .01	ppm			WG423343	05/26/09 11:37
2,4-Dimethylphenol	< .01	ppm			WG423343	05/26/09 11:37
2,4-Dinitrophenol	< .01	ppm			WG423343	05/26/09 11:37
2,4-Dinitrotoluene	< .01	ppm			WG423343	05/26/09 11:37
2,6-Dinitrotoluene	< .01	ppm			WG423343	05/26/09 11:37
2-Chloronaphthalene	< .01	ppm			WG423343	05/26/09 11:37
2-Chlorophenol	< .01	ppm			WG423343	05/26/09 11:37
2-Nitrophenol	< .01	ppm			WG423343	05/26/09 11:37
3,3-Dichlorobenzidine	< .01	ppm			WG423343	05/26/09 11:37
4,6-Dinitro-2-methylphenol	< .01	ppm			WG423343	05/26/09 11:37
4-Bromophenyl-phenylether	< .01	ppm			WG423343	05/26/09 11:37
4-Chloro-3-methylphenol	< .01	ppm			WG423343	05/26/09 11:37

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Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
4-Chlorophenyl-phenylether	< .01	ppm			WG423343	05/26/09 11:37
4-Nitrophenol	< .01	ppm			WG423343	05/26/09 11:37
Acenaphthene	< .01	ppm			WG423343	05/26/09 11:37
Acenaphthylene	< .01	ppm			WG423343	05/26/09 11:37
Anthracene	< .01	ppm			WG423343	05/26/09 11:37
Benzidine	< .01	ppm			WG423343	05/26/09 11:37
Benzo(a)anthracene	< .01	ppm			WG423343	05/26/09 11:37
Benzo(a)pyrene	< .01	ppm			WG423343	05/26/09 11:37
Benzo(b)fluoranthene	< .01	ppm			WG423343	05/26/09 11:37
Benzo(g,h,i)perylene	< .01	ppm			WG423343	05/26/09 11:37
Benzo(k)fluoranthene	< .01	ppm			WG423343	05/26/09 11:37
Benzylbutyl phthalate	< .01	ppm			WG423343	05/26/09 11:37
Bis(2-chlorethoxy)methane	< .01	ppm			WG423343	05/26/09 11:37
Bis(2-chloroethyl)ether	< .01	ppm			WG423343	05/26/09 11:37
Bis(2-chloroisopropyl)ether	< .01	ppm			WG423343	05/26/09 11:37
Bis(2-ethylhexyl)phthalate	< .01	ppm			WG423343	05/26/09 11:37
Chrysene	< .01	ppm			WG423343	05/26/09 11:37
Di-n-butyl phthalate	< .01	ppm			WG423343	05/26/09 11:37
Di-n-octyl phthalate	< .01	ppm			WG423343	05/26/09 11:37
Dibenz(a,h)anthracene	< .01	ppm			WG423343	05/26/09 11:37
Diethyl phthalate	< .01	ppm			WG423343	05/26/09 11:37
Dimethyl phthalate	< .01	ppm			WG423343	05/26/09 11:37
Fluoranthene	< .01	ppm			WG423343	05/26/09 11:37
Fluorene	< .01	ppm			WG423343	05/26/09 11:37
Hexachloro-1,3-butadiene	< .01	ppm			WG423343	05/26/09 11:37
Hexachlorobenzene	< .01	ppm			WG423343	05/26/09 11:37
Hexachlorocyclopentadiene	< .01	ppm			WG423343	05/26/09 11:37
Hexachloroethane	< .01	ppm			WG423343	05/26/09 11:37
Indeno(1,2,3-cd)pyrene	< .01	ppm			WG423343	05/26/09 11:37
Isophorone	< .01	ppm			WG423343	05/26/09 11:37
n-Nitrosodi-n-propylamine	< .01	ppm			WG423343	05/26/09 11:37
n-Nitrosodimethylamine	< .05	ppm			WG423343	05/26/09 11:37
n-Nitrosodiphenylamine	< .01	ppm			WG423343	05/26/09 11:37
Naphthalene	< .01	ppm			WG423343	05/26/09 11:37
Nitrobenzene	< .01	ppm			WG423343	05/26/09 11:37
Pentachlorophenol	< .01	ppm			WG423343	05/26/09 11:37
Phenanthrene	< .01	ppm			WG423343	05/26/09 11:37
Phenol	< .01	ppm			WG423343	05/26/09 11:37
Pyrene	< .01	ppm			WG423343	05/26/09 11:37
2,4,6-Tribromophenol		% Rec.	95.16	10-148	WG423343	05/26/09 11:37
2-Fluorobiphenyl		% Rec.	80.82	26-122	WG423343	05/26/09 11:37
2-Fluorophenol		% Rec.	46.11	10-87	WG423343	05/26/09 11:37
Nitrobenzene-d5		% Rec.	63.37	12-120	WG423343	05/26/09 11:37
Phenol-d5		% Rec.	28.18	10-67	WG423343	05/26/09 11:37
p-Terphenyl-d14		% Rec.	106.6	34-149	WG423343	05/26/09 11:37
Total Solids	< .1	%			WG423615	05/28/09 10:43
Total Solids	< .1	%			WG423616	05/28/09 10:32
1,2,4-Trichlorobenzene	< .33	ppm			WG423636	05/28/09 11:08
2,4,6-Trichlorophenol	< .33	ppm			WG423636	05/28/09 11:08
2,4-Dichlorophenol	< .33	ppm			WG423636	05/28/09 11:08
2,4-Dimethylphenol	< .33	ppm			WG423636	05/28/09 11:08
2,4-Dinitrophenol	< .33	ppm			WG423636	05/28/09 11:08
2,4-Dinitrotoluene	< .33	ppm			WG423636	05/28/09 11:08

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Amy Zach
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Quality Assurance Report
Level II

L404086

June 04, 2009

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
2,6-Dinitrotoluene	< .33	ppm			WG423636	05/28/09 11:08
2-Chloronaphthalene	< .33	ppm			WG423636	05/28/09 11:08
2-Chlorophenol	< .33	ppm			WG423636	05/28/09 11:08
2-Nitrophenol	< .33	ppm			WG423636	05/28/09 11:08
3,3-Dichlorobenzidine	< .33	ppm			WG423636	05/28/09 11:08
4,6-Dinitro-2-methylphenol	< .33	ppm			WG423636	05/28/09 11:08
4-Bromophenyl-phenylether	< .33	ppm			WG423636	05/28/09 11:08
4-Chloro-3-methylphenol	< .33	ppm			WG423636	05/28/09 11:08
4-Chlorophenyl-phenylether	< .33	ppm			WG423636	05/28/09 11:08
4-Nitrophenol	< .33	ppm			WG423636	05/28/09 11:08
Acenaphthene	< .33	ppm			WG423636	05/28/09 11:08
Acenaphthylene	< .33	ppm			WG423636	05/28/09 11:08
Anthracene	< .33	ppm			WG423636	05/28/09 11:08
Benzidine	< .33	ppm			WG423636	05/28/09 11:08
Benzo(a)anthracene	< .33	ppm			WG423636	05/28/09 11:08
Benzo(a)pyrene	< .33	ppm			WG423636	05/28/09 11:08
Benzo(b)fluoranthene	< .33	ppm			WG423636	05/28/09 11:08
Benzo(g,h,i)perylene	< .33	ppm			WG423636	05/28/09 11:08
Benzo(k)fluoranthene	< .33	ppm			WG423636	05/28/09 11:08
Benzylbutyl phthalate	< .33	ppm			WG423636	05/28/09 11:08
Bis(2-chlorethoxy)methane	< .33	ppm			WG423636	05/28/09 11:08
Bis(2-chloroethyl)ether	< .33	ppm			WG423636	05/28/09 11:08
Bis(2-chloroisopropyl)ether	< .33	ppm			WG423636	05/28/09 11:08
Bis(2-ethylhexyl)phthalate	< .33	ppm			WG423636	05/28/09 11:08
Chrysene	< .33	ppm			WG423636	05/28/09 11:08
Di-n-butyl phthalate	< .33	ppm			WG423636	05/28/09 11:08
Di-n-octyl phthalate	< .33	ppm			WG423636	05/28/09 11:08
Dibenz(a,h)anthracene	< .33	ppm			WG423636	05/28/09 11:08
Diethyl phthalate	< .33	ppm			WG423636	05/28/09 11:08
Dimethyl phthalate	< .33	ppm			WG423636	05/28/09 11:08
Fluoranthene	< .33	ppm			WG423636	05/28/09 11:08
Fluorene	< .33	ppm			WG423636	05/28/09 11:08
Hexachloro-1,3-butadiene	< .33	ppm			WG423636	05/28/09 11:08
Hexachlorobenzene	< .33	ppm			WG423636	05/28/09 11:08
Hexachlorocyclopentadiene	< .33	ppm			WG423636	05/28/09 11:08
Hexachloroethane	< .33	ppm			WG423636	05/28/09 11:08
Indeno(1,2,3-cd)pyrene	< .33	ppm			WG423636	05/28/09 11:08
Isophorone	< .33	ppm			WG423636	05/28/09 11:08
n-Nitrosodi-n-propylamine	< .33	ppm			WG423636	05/28/09 11:08
n-Nitrosodimethylamine	< .33	ppm			WG423636	05/28/09 11:08
n-Nitrosodiphenylamine	< .33	ppm			WG423636	05/28/09 11:08
Naphthalene	< .33	ppm			WG423636	05/28/09 11:08
Nitrobenzene	< .33	ppm			WG423636	05/28/09 11:08
Pentachlorophenol	< .33	ppm			WG423636	05/28/09 11:08
Phenanthrene	< .33	ppm			WG423636	05/28/09 11:08
Phenol	< .33	ppm			WG423636	05/28/09 11:08
Pyrene	< .33	ppm			WG423636	05/28/09 11:08
2,4,6-Tribromophenol		% Rec.	50.44	25-137	WG423636	05/28/09 11:08
2-Fluorobiphenyl		% Rec.	45.36	30-120	WG423636	05/28/09 11:08
2-Fluorophenol		% Rec.	39.80	26-130	WG423636	05/28/09 11:08
Nitrobenzene-d5		% Rec.	34.86	18-119	WG423636	05/28/09 11:08
Phenol-d5		% Rec.	40.24	37-141	WG423636	05/28/09 11:08
p-Terphenyl-d14		% Rec.	61.07	23-143	WG423636	05/28/09 11:08
1,2,4-Trichlorobenzene	< .01	ppm			WG423641	05/28/09 10:19
2,4,6-Trichlorophenol	< .01	ppm			WG423641	05/28/09 10:19
2,4-Dichlorophenol	< .01	ppm			WG423641	05/28/09 10:19
2,4-Dimethylphenol	< .01	ppm			WG423641	05/28/09 10:19

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Quality Assurance Report
Level II

L404086

June 04, 2009

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
2,4-Dinitrophenol	< .01	ppm			WG423641	05/28/09 10:19
2,4-Dinitrotoluene	< .01	ppm			WG423641	05/28/09 10:19
2,6-Dinitrotoluene	< .01	ppm			WG423641	05/28/09 10:19
2-Chloronaphthalene	< .01	ppm			WG423641	05/28/09 10:19
2-Chlorophenol	< .01	ppm			WG423641	05/28/09 10:19
2-Nitrophenol	< .01	ppm			WG423641	05/28/09 10:19
3,3-Dichlorobenzidine	< .01	ppm			WG423641	05/28/09 10:19
4,6-Dinitro-2-methylphenol	< .01	ppm			WG423641	05/28/09 10:19
4-Bromophenyl-phenylether	< .01	ppm			WG423641	05/28/09 10:19
4-Chloro-3-methylphenol	< .01	ppm			WG423641	05/28/09 10:19
4-Chlorophenyl-phenylether	< .01	ppm			WG423641	05/28/09 10:19
4-Nitrophenol	< .01	ppm			WG423641	05/28/09 10:19
Acenaphthene	< .01	ppm			WG423641	05/28/09 10:19
Acenaphthylene	< .01	ppm			WG423641	05/28/09 10:19
Anthracene	< .01	ppm			WG423641	05/28/09 10:19
Benzidine	< .01	ppm			WG423641	05/28/09 10:19
Benzo(a)anthracene	< .01	ppm			WG423641	05/28/09 10:19
Benzo(a)pyrene	< .01	ppm			WG423641	05/28/09 10:19
Benzo(b)fluoranthene	< .01	ppm			WG423641	05/28/09 10:19
Benzo(g,h,i)perylene	< .01	ppm			WG423641	05/28/09 10:19
Benzo(k)fluoranthene	< .01	ppm			WG423641	05/28/09 10:19
Benzylbutyl phthalate	< .01	ppm			WG423641	05/28/09 10:19
Bis(2-chlorethoxy)methane	< .01	ppm			WG423641	05/28/09 10:19
Bis(2-chloroethyl)ether	< .01	ppm			WG423641	05/28/09 10:19
Bis(2-chloroisopropyl)ether	< .01	ppm			WG423641	05/28/09 10:19
Bis(2-ethylhexyl)phthalate	< .01	ppm			WG423641	05/28/09 10:19
Chrysene	< .01	ppm			WG423641	05/28/09 10:19
Di-n-butyl phthalate	< .01	ppm			WG423641	05/28/09 10:19
Di-n-octyl phthalate	< .01	ppm			WG423641	05/28/09 10:19
Dibenz(a,h)anthracene	< .01	ppm			WG423641	05/28/09 10:19
Diethyl phthalate	< .01	ppm			WG423641	05/28/09 10:19
Dimethyl phthalate	< .01	ppm			WG423641	05/28/09 10:19
Fluoranthene	< .01	ppm			WG423641	05/28/09 10:19
Fluorene	< .01	ppm			WG423641	05/28/09 10:19
Hexachloro-1,3-butadiene	< .01	ppm			WG423641	05/28/09 10:19
Hexachlorobenzene	< .01	ppm			WG423641	05/28/09 10:19
Hexachlorocyclopentadiene	< .01	ppm			WG423641	05/28/09 10:19
Hexachloroethane	< .01	ppm			WG423641	05/28/09 10:19
Indeno(1,2,3-cd)pyrene	< .01	ppm			WG423641	05/28/09 10:19
Isophorone	< .01	ppm			WG423641	05/28/09 10:19
n-Nitrosodi-n-propylamine	< .01	ppm			WG423641	05/28/09 10:19
n-Nitrosodimethylamine	< .05	ppm			WG423641	05/28/09 10:19
n-Nitrosodiphenylamine	< .01	ppm			WG423641	05/28/09 10:19
Naphthalene	< .01	ppm			WG423641	05/28/09 10:19
Nitrobenzene	< .01	ppm			WG423641	05/28/09 10:19
Pentachlorophenol	< .01	ppm			WG423641	05/28/09 10:19
Phenanthrene	< .01	ppm			WG423641	05/28/09 10:19
Phenol	< .01	ppm			WG423641	05/28/09 10:19
Pyrene	< .01	ppm			WG423641	05/28/09 10:19
2,4,6-Tribromophenol		% Rec.	73.95	10-148	WG423641	05/28/09 10:19
2-Fluorobiphenyl		% Rec.	57.23	26-122	WG423641	05/28/09 10:19
2-Fluorophenol		% Rec.	36.67	10-87	WG423641	05/28/09 10:19
Nitrobenzene-d5		% Rec.	36.82	12-120	WG423641	05/28/09 10:19
Phenol-d5		% Rec.	24.72	10-67	WG423641	05/28/09 10:19
p-Terphenyl-d14		% Rec.	107.4	34-149	WG423641	05/28/09 10:19
Arsenic	< 1	mg/kg			WG423648	06/02/09 14:55
Barium	< .25	mg/kg			WG423648	06/02/09 14:55

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Level II

L404086

June 04, 2009

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Cadmium	< .25	mg/kg			WG423648	06/02/09 14:55
Chromium	< .5	mg/kg			WG423648	06/02/09 14:55
Lead	< .25	mg/kg			WG423648	06/02/09 14:55
Silver	< .5	mg/kg			WG423648	06/02/09 14:55
Arsenic	< .02	mg/l			WG423914	06/02/09 04:04
Barium	< .005	mg/l			WG423914	06/02/09 04:04
Cadmium	< .005	mg/l			WG423914	06/02/09 04:04
Chromium	< .01	mg/l			WG423914	06/02/09 04:04
Lead	< .005	mg/l			WG423914	06/02/09 04:04
Selenium	< .02	mg/l			WG423914	06/02/09 04:04
Silver	< .01	mg/l			WG423914	06/02/09 04:04
Selenium	< 1	mg/kg			WG424615	06/03/09 15:44

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Mercury	mg/l	0.00	0.00	0.00	20	L404165-03	WG423232
Mercury	mg/kg	0.0217	0.0260	18.0	20	L404086-06	WG423237
Mercury	mg/kg	0.00	0.00	0.00	20	L404149-01	WG423236
Total Solids	%	93.8	94.0	0.249	5	L404086-01	WG423615
Total Solids	%	65.5	64.3	1.84	5	L404089-02	WG423616
Arsenic	mg/kg	37.3	45.0	18.7	20	L404107-01	WG423648
Barium	mg/kg	52.3	57.0	8.60	20	L404107-01	WG423648
Cadmium	mg/kg	11.2	15.0	29.0*	20	L404107-01	WG423648
Chromium	mg/kg	22.2	30.0	29.9*	20	L404107-01	WG423648
Lead	mg/kg	209.	280.	29.0*	20	L404107-01	WG423648
Silver	mg/kg	9.50	12.0	23.3*	20	L404107-01	WG423648
Arsenic	mg/l	0.00	0.00	0.00	20	L404086-13	WG423914
Barium	mg/l	0.0737	0.0710	3.73	20	L404086-13	WG423914
Cadmium	mg/l	0.00	0.00	0.00	20	L404086-13	WG423914
Chromium	mg/l	0.0113	0.00	NA	20	L404086-13	WG423914
Lead	mg/l	0.00	0.00	0.00	20	L404086-13	WG423914
Selenium	mg/l	0.00	0.00	0.00	20	L404086-13	WG423914
Silver	mg/l	0.00	0.00	0.00	20	L404086-13	WG423914
Selenium	mg/kg	1.76	2.35	28.7*	20	L405254-04	WG424615

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	.05	0.0519	104.	75-134	WG423255
1,1,1-Trichloroethane	mg/l	.05	0.0490	98.0	67-137	WG423255

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Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1,1,2,2-Tetrachloroethane	mg/l	.05	0.0510	102.	72-128	WG423255
1,1,2-Trichloroethane	mg/l	.05	0.0480	95.9	79-123	WG423255
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	.05	0.0462	92.3	51-149	WG423255
1,1-Dichloroethane	mg/l	.05	0.0487	97.4	67-133	WG423255
1,1-Dichloroethene	mg/l	.05	0.0465	93.0	60-130	WG423255
1,1-Dichloropropene	mg/l	.05	0.0480	96.0	68-132	WG423255
1,2,3-Trichlorobenzene	mg/l	.05	0.0544	109.	63-138	WG423255
1,2,3-Trichloropropane	mg/l	.05	0.0532	106.	68-130	WG423255
1,2,3-Trimethylbenzene	mg/l	.05	0.0514	103.	70-127	WG423255
1,2,4-Trichlorobenzene	mg/l	.05	0.0516	103.	65-137	WG423255
1,2,4-Trimethylbenzene	mg/l	.05	0.0556	111.	72-135	WG423255
1,2-Dibromo-3-Chloropropane	mg/l	.05	0.0556	111.	55-134	WG423255
1,2-Dibromoethane	mg/l	.05	0.0491	98.3	75-126	WG423255
1,2-Dichlorobenzene	mg/l	.05	0.0498	99.6	75-122	WG423255
1,2-Dichloroethane	mg/l	.05	0.0467	93.4	63-137	WG423255
1,2-Dichloropropane	mg/l	.05	0.0473	94.6	74-122	WG423255
1,3,5-Trimethylbenzene	mg/l	.05	0.0553	111.	73-134	WG423255
1,3-Dichlorobenzene	mg/l	.05	0.0516	103.	73-131	WG423255
1,3-Dichloropropane	mg/l	.05	0.0478	95.6	77-119	WG423255
1,4-Dichlorobenzene	mg/l	.05	0.0482	96.3	70-121	WG423255
2,2-Dichloropropane	mg/l	.05	0.0503	101.	46-151	WG423255
2-Butanone (MEK)	mg/l	.25	0.234	93.7	53-132	WG423255
2-Chloroethyl vinyl ether	mg/l	.25	0.287	115.	0-171	WG423255
2-Chlorotoluene	mg/l	.05	0.0519	104.	74-128	WG423255
4-Chlorotoluene	mg/l	.05	0.0520	104.	74-130	WG423255
4-Methyl-2-pentanone (MIBK)	mg/l	.25	0.258	103.	60-142	WG423255
Acetone	mg/l	.25	0.241	96.2	48-134	WG423255
Acrolein	mg/l	.25	0.253	101.	6-182	WG423255
Acrylonitrile	mg/l	.25	0.255	102.	60-140	WG423255
Benzene	mg/l	.05	0.0478	95.5	67-126	WG423255
Bromobenzene	mg/l	.05	0.0495	99.1	76-123	WG423255
Bromodichloromethane	mg/l	.05	0.0501	100.	68-133	WG423255
Bromoform	mg/l	.05	0.0563	113.	60-139	WG423255
Bromomethane	mg/l	.05	0.0459	91.9	45-175	WG423255
Carbon tetrachloride	mg/l	.05	0.0496	99.1	64-141	WG423255
Chlorobenzene	mg/l	.05	0.0511	102.	77-125	WG423255
Chlorodibromomethane	mg/l	.05	0.0527	105.	73-138	WG423255
Chloroethane	mg/l	.05	0.0466	93.2	49-155	WG423255
Chloroform	mg/l	.05	0.0462	92.5	66-126	WG423255
Chloromethane	mg/l	.05	0.0466	93.2	45-152	WG423255
cis-1,2-Dichloroethene	mg/l	.05	0.0489	97.8	72-128	WG423255
cis-1,3-Dichloropropene	mg/l	.05	0.0515	103.	73-131	WG423255
Di-isopropyl ether	mg/l	.05	0.0519	104.	63-139	WG423255
Dibromomethane	mg/l	.05	0.0474	94.9	73-125	WG423255
Dichlorodifluoromethane	mg/l	.05	0.0448	89.5	39-189	WG423255
Ethylbenzene	mg/l	.05	0.0522	104.	76-129	WG423255
Hexachloro-1,3-Butadiene	mg/l	.05	0.0513	103.	67-135	WG423255
Isopropylbenzene	mg/l	.05	0.0535	107.	73-132	WG423255
Methyl tert-butyl ether	mg/l	.05	0.0487	97.4	51-142	WG423255
Methylene Chloride	mg/l	.05	0.0465	93.0	64-125	WG423255
n-Butylbenzene	mg/l	.05	0.0538	108.	63-142	WG423255
n-Propylbenzene	mg/l	.05	0.0526	105.	71-132	WG423255
Naphthalene	mg/l	.05	0.0558	112.	56-145	WG423255
p-Isopropyltoluene	mg/l	.05	0.0568	114.	68-138	WG423255
sec-Butylbenzene	mg/l	.05	0.0560	112.	70-135	WG423255
Styrene	mg/l	.05	0.0555	111.	78-130	WG423255
tert-Butylbenzene	mg/l	.05	0.0538	108.	72-134	WG423255
Tetrachloroethene	mg/l	.05	0.0445	89.1	67-135	WG423255
Toluene	mg/l	.05	0.0478	95.6	72-122	WG423255

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SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

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Quality Assurance Report
Level II

L404086

June 04, 2009

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
trans-1,2-Dichloroethene	mg/l	.05	0.0460	92.1	67-129	WG423255
trans-1,3-Dichloropropene	mg/l	.05	0.0528	106.	66-137	WG423255
Trichloroethene	mg/l	.05	0.0483	96.5	74-126	WG423255
Trichlorofluoromethane	mg/l	.05	0.0465	92.9	54-156	WG423255
Vinyl chloride	mg/l	.05	0.0488	97.5	55-153	WG423255
4-Bromofluorobenzene				103.2	75-128	WG423255
Dibromofluoromethane				101.0	79-125	WG423255
Toluene-d8				100.2	87-114	WG423255
1,1,1,2-Tetrachloroethane	mg/l	.05	0.0454	90.8	75-134	WG423281
1,1,1-Trichloroethane	mg/l	.05	0.0518	104.	67-137	WG423281
1,1,2,2-Tetrachloroethane	mg/l	.05	0.0444	88.8	72-128	WG423281
1,1,2-Trichloroethane	mg/l	.05	0.0427	85.3	79-123	WG423281
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	.05	0.0398	79.6	51-149	WG423281
1,1-Dichloroethane	mg/l	.05	0.0544	109.	67-133	WG423281
1,1-Dichloroethene	mg/l	.05	0.0434	86.8	60-130	WG423281
1,1-Dichloropropene	mg/l	.05	0.0554	111.	68-132	WG423281
1,2,3-Trichlorobenzene	mg/l	.05	0.0481	96.3	63-138	WG423281
1,2,3-Trichloropropane	mg/l	.05	0.0472	94.3	68-130	WG423281
1,2,3-Trimethylbenzene	mg/l	.05	0.0452	90.5	70-127	WG423281
1,2,4-Trichlorobenzene	mg/l	.05	0.0515	103.	65-137	WG423281
1,2,4-Trimethylbenzene	mg/l	.05	0.0453	90.6	72-135	WG423281
1,2-Dibromo-3-Chloropropane	mg/l	.05	0.0443	88.7	55-134	WG423281
1,2-Dibromoethane	mg/l	.05	0.0463	92.6	75-126	WG423281
1,2-Dichlorobenzene	mg/l	.05	0.0468	93.5	75-122	WG423281
1,2-Dichloroethane	mg/l	.05	0.0575	115.	63-137	WG423281
1,2-Dichloropropane	mg/l	.05	0.0516	103.	74-122	WG423281
1,3,5-Trimethylbenzene	mg/l	.05	0.0453	90.6	73-134	WG423281
1,3-Dichlorobenzene	mg/l	.05	0.0466	93.3	73-131	WG423281
1,3-Dichloropropane	mg/l	.05	0.0468	93.7	77-119	WG423281
1,4-Dichlorobenzene	mg/l	.05	0.0467	93.3	70-121	WG423281
2,2-Dichloropropane	mg/l	.05	0.0532	106.	46-151	WG423281
2-Butanone (MEK)	mg/l	.25	0.238	95.3	53-132	WG423281
2-Chloroethyl vinyl ether	mg/l	.25	0.168	67.0	0-171	WG423281
2-Chlorotoluene	mg/l	.05	0.0464	92.9	74-128	WG423281
4-Chlorotoluene	mg/l	.05	0.0456	91.1	74-130	WG423281
4-Methyl-2-pentanone (MIBK)	mg/l	.25	0.251	100.	60-142	WG423281
Acetone	mg/l	.25	0.260	104.	48-134	WG423281
Acrolein	mg/l	.25	0.204	81.6	6-182	WG423281
Acrylonitrile	mg/l	.25	0.248	99.3	60-140	WG423281
Benzene	mg/l	.05	0.0513	103.	67-126	WG423281
Bromobenzene	mg/l	.05	0.0457	91.4	76-123	WG423281
Bromodichloromethane	mg/l	.05	0.0464	92.8	68-133	WG423281
Bromoform	mg/l	.05	0.0428	85.5	60-139	WG423281
Bromomethane	mg/l	.05	0.0467	93.5	45-175	WG423281
Carbon tetrachloride	mg/l	.05	0.0491	98.1	64-141	WG423281
Chlorobenzene	mg/l	.05	0.0446	89.2	77-125	WG423281
Chlorodibromomethane	mg/l	.05	0.0426	85.1	73-138	WG423281
Chloroethane	mg/l	.05	0.0472	94.4	49-155	WG423281
Chloroform	mg/l	.05	0.0542	108.	66-126	WG423281
Chloromethane	mg/l	.05	0.0498	99.7	45-152	WG423281
cis-1,2-Dichloroethene	mg/l	.05	0.0491	98.3	72-128	WG423281
cis-1,3-Dichloropropene	mg/l	.05	0.0533	107.	73-131	WG423281
Di-isopropyl ether	mg/l	.05	0.0510	102.	63-139	WG423281
Dibromomethane	mg/l	.05	0.0500	100.	73-125	WG423281
Dichlorodifluoromethane	mg/l	.05	0.0457	91.4	39-189	WG423281
Ethylbenzene	mg/l	.05	0.0456	91.2	76-129	WG423281
Hexachloro-1,3-Butadiene	mg/l	.05	0.0506	101.	67-135	WG423281

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Amy Zach
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Quality Assurance Report
Level II

L404086

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Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Isopropylbenzene	mg/l	.05	0.0455	91.1	73-132	WG423281
Methyl tert-butyl ether	mg/l	.05	0.0461	92.2	51-142	WG423281
Methylene Chloride	mg/l	.05	0.0468	93.5	64-125	WG423281
n-Butylbenzene	mg/l	.05	0.0478	95.6	63-142	WG423281
n-Propylbenzene	mg/l	.05	0.0459	91.9	71-132	WG423281
Naphthalene	mg/l	.05	0.0527	105.	56-145	WG423281
p-Isopropyltoluene	mg/l	.05	0.0439	87.8	68-138	WG423281
sec-Butylbenzene	mg/l	.05	0.0457	91.4	70-135	WG423281
Styrene	mg/l	.05	0.0463	92.5	78-130	WG423281
tert-Butylbenzene	mg/l	.05	0.0436	87.1	72-134	WG423281
Tetrachloroethene	mg/l	.05	0.0440	88.0	67-135	WG423281
Toluene	mg/l	.05	0.0489	97.8	72-122	WG423281
trans-1,2-Dichloroethene	mg/l	.05	0.0493	98.6	67-129	WG423281
trans-1,3-Dichloropropene	mg/l	.05	0.0514	103.	66-137	WG423281
Trichloroethene	mg/l	.05	0.0486	97.2	74-126	WG423281
Trichlorofluoromethane	mg/l	.05	0.0482	96.4	54-156	WG423281
Vinyl chloride	mg/l	.05	0.0538	108.	55-153	WG423281
4-Bromofluorobenzene				95.82	75-128	WG423281
Dibromofluoromethane				102.0	79-125	WG423281
Toluene-d8				104.9	87-114	WG423281
Mercury	mg/l	.003	0.00340	113.	85-115	WG423232
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.0469	93.8	73-134	WG423335
1,1,1-Trichloroethane	mg/kg	.05	0.0528	106.	62-135	WG423335
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.0443	88.5	74-129	WG423335
1,1,2-Trichloroethane	mg/kg	.05	0.0434	86.7	77-124	WG423335
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	.05	0.0394	78.9	49-155	WG423335
1,1-Dichloroethane	mg/kg	.05	0.0559	112.	61-134	WG423335
1,1-Dichloroethene	mg/kg	.05	0.0442	88.4	53-136	WG423335
1,1-Dichloropropene	mg/kg	.05	0.0555	111.	63-132	WG423335
1,2,3-Trichlorobenzene	mg/kg	.05	0.0460	92.0	62-146	WG423335
1,2,3-Trichloropropane	mg/kg	.05	0.0472	94.4	70-133	WG423335
1,2,4-Trichlorobenzene	mg/kg	.05	0.0506	101.	61-148	WG423335
1,2,4-Trimethylbenzene	mg/kg	.05	0.0465	92.9	68-135	WG423335
1,2-Dibromo-3-Chloropropane	mg/kg	.05	0.0440	88.0	61-134	WG423335
1,2-Dibromoethane	mg/kg	.05	0.0466	93.2	76-127	WG423335
1,2-Dichlorobenzene	mg/kg	.05	0.0484	96.9	77-123	WG423335
1,2-Dichloroethane	mg/kg	.05	0.0578	116.	58-141	WG423335
1,2-Dichloropropane	mg/kg	.05	0.0515	103.	71-128	WG423335
1,3,5-Trimethylbenzene	mg/kg	.05	0.0464	92.9	71-133	WG423335
1,3-Dichlorobenzene	mg/kg	.05	0.0474	94.8	71-132	WG423335
1,3-Dichloropropane	mg/kg	.05	0.0472	94.4	76-120	WG423335
1,4-Dichlorobenzene	mg/kg	.05	0.0475	95.1	72-123	WG423335
2,2-Dichloropropane	mg/kg	.05	0.0523	105.	50-147	WG423335
2-Butanone (MEK)	mg/kg	.25	0.235	94.1	51-131	WG423335
2-Chloroethyl vinyl ether	mg/kg	.25	0.162	64.8	0-188	WG423335
2-Chlorotoluene	mg/kg	.05	0.0474	94.8	73-128	WG423335
4-Chlorotoluene	mg/kg	.05	0.0461	92.2	72-129	WG423335
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.238	95.4	61-143	WG423335
Acetone	mg/kg	.25	0.255	102.	44-140	WG423335
Acrylonitrile	mg/kg	.25	0.251	100.	55-143	WG423335
Benzene	mg/kg	.05	0.0528	106.	65-128	WG423335
Bromobenzene	mg/kg	.05	0.0461	92.2	75-123	WG423335
Bromodichloromethane	mg/kg	.05	0.0460	92.0	66-126	WG423335
Bromoform	mg/kg	.05	0.0423	84.6	64-139	WG423335
Bromomethane	mg/kg	.05	0.0470	93.9	41-175	WG423335

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Amy Zach
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June 04, 2009

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Carbon tetrachloride	mg/kg	.05	0.0536	107.	60-140	WG423335
Chlorobenzene	mg/kg	.05	0.0454	90.8	75-125	WG423335
Chlorodibromomethane	mg/kg	.05	0.0435	87.1	72-137	WG423335
Chloroethane	mg/kg	.05	0.0509	102.	44-159	WG423335
Chloroform	mg/kg	.05	0.0555	111.	63-123	WG423335
Chloromethane	mg/kg	.05	0.0531	106.	42-149	WG423335
cis-1,2-Dichloroethene	mg/kg	.05	0.0506	101.	71-129	WG423335
cis-1,3-Dichloropropene	mg/kg	.05	0.0533	107.	73-132	WG423335
Di-isopropyl ether	mg/kg	.05	0.0516	103.	59-143	WG423335
Dibromomethane	mg/kg	.05	0.0492	98.4	70-130	WG423335
Dichlorodifluoromethane	mg/kg	.05	0.0494	98.9	26-186	WG423335
Ethylbenzene	mg/kg	.05	0.0465	93.0	74-128	WG423335
Hexachloro-1,3-Butadiene	mg/kg	.05	0.0513	103.	65-137	WG423335
Isopropylbenzene	mg/kg	.05	0.0461	92.2	73-130	WG423335
Methyl tert-butyl ether	mg/kg	.05	0.0462	92.4	44-148	WG423335
Methylene Chloride	mg/kg	.05	0.0477	95.4	57-129	WG423335
n-Butylbenzene	mg/kg	.05	0.0485	97.0	60-145	WG423335
n-Propylbenzene	mg/kg	.05	0.0464	92.8	71-132	WG423335
Naphthalene	mg/kg	.05	0.0490	98.0	61-142	WG423335
p-Isopropyltoluene	mg/kg	.05	0.0453	90.5	67-138	WG423335
sec-Butylbenzene	mg/kg	.05	0.0460	92.0	71-134	WG423335
Styrene	mg/kg	.05	0.0470	94.0	76-133	WG423335
tert-Butylbenzene	mg/kg	.05	0.0449	89.8	72-132	WG423335
Tetrachloroethene	mg/kg	.05	0.0427	85.5	65-135	WG423335
Toluene	mg/kg	.05	0.0487	97.5	70-120	WG423335
trans-1,2-Dichloroethene	mg/kg	.05	0.0505	101.	61-133	WG423335
trans-1,3-Dichloropropene	mg/kg	.05	0.0520	104.	70-135	WG423335
Trichloroethene	mg/kg	.05	0.0486	97.2	71-126	WG423335
Trichlorofluoromethane	mg/kg	.05	0.0499	99.9	52-147	WG423335
Vinyl chloride	mg/kg	.05	0.0576	115.	50-151	WG423335
4-Bromofluorobenzene				93.99	59-140	WG423335
Dibromofluoromethane				103.3	63-139	WG423335
Toluene-d8				103.4	84-116	WG423335
Mercury	mg/kg	8.77	7.69	87.7	71.6-127.7	WG423236
Mercury	mg/kg	8.77	7.71	87.9	71.6-127.7	WG423237
1,2,4-Trichlorobenzene	ppm	.01	0.00838	83.8	26-103	WG423248
2,4,6-Trichlorophenol	ppm	.01	0.00889	88.9	49-118	WG423248
2,4-Dichlorophenol	ppm	.01	0.00899	89.9	46-115	WG423248
2,4-Dimethylphenol	ppm	.01	0.0136	136.*	40-124	WG423248
2,4-Dinitrophenol	ppm	.01	0.00697	69.7	10-125	WG423248
2,4-Dinitrotoluene	ppm	.01	0.0110	110.	56-128	WG423248
2,6-Dinitrotoluene	ppm	.01	0.0102	102.	56-121	WG423248
2-Chloronaphthalene	ppm	.01	0.0102	102.	44-110	WG423248
2-Chlorophenol	ppm	.01	0.00765	76.5	38-114	WG423248
2-Nitrophenol	ppm	.01	0.00893	89.3	35-118	WG423248
3,3-Dichlorobenzidine	ppm	.01	0.00965	96.5	46-145	WG423248
4,6-Dinitro-2-methylphenol	ppm	.01	0.00768	76.8	24-119	WG423248
4-Bromophenyl-phenylether	ppm	.01	0.00904	90.4	45-105	WG423248
4-Chloro-3-methylphenol	ppm	.01	0.00918	91.8	47-116	WG423248
4-Chlorophenyl-phenylether	ppm	.01	0.0103	103.	49-116	WG423248
4-Nitrophenol	ppm	.01	0.00234	23.4	10-66	WG423248
Acenaphthene	ppm	.01	0.0106	106.	48-110	WG423248
Acenaphthylene	ppm	.01	0.0112	112.	48-113	WG423248

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Anthracene	ppm	.01	0.0116	116.	55-127	WG423248
Benzidine	ppm	.01	0.000508	5.08	0-46	WG423248
Benzo(a)anthracene	ppm	.01	0.0110	110.	57-115	WG423248
Benzo(a)pyrene	ppm	.01	0.0115	115.	63-125	WG423248
Benzo(b)fluoranthene	ppm	.01	0.0112	112.	50-123	WG423248
Benzo(g,h,i)perylene	ppm	.01	0.0130	130.	39-143	WG423248
Benzo(k)fluoranthene	ppm	.01	0.0105	105.	45-126	WG423248
Benzylbutyl phthalate	ppm	.01	0.00603	60.3	22-154	WG423248
Bis(2-chlorethoxy)methane	ppm	.01	0.00893	89.3	42-116	WG423248
Bis(2-chloroethyl)ether	ppm	.01	0.00827	82.7	26-115	WG423248
Bis(2-chloroisopropyl)ether	ppm	.01	0.00808	80.8	32-115	WG423248
Bis(2-ethylhexyl)phthalate	ppm	.01	0.00929	92.9	47-143	WG423248
Chrysene	ppm	.01	0.0106	106.	58-113	WG423248
Di-n-butyl phthalate	ppm	.01	0.00886	88.6	51-131	WG423248
Di-n-octyl phthalate	ppm	.01	0.00972	97.2	51-138	WG423248
Dibenz(a,h)anthracene	ppm	.01	0.0127	127.	39-144	WG423248
Diethyl phthalate	ppm	.01	0.00731	73.1	36-128	WG423248
Dimethyl phthalate	ppm	.01	0.00376	37.6	10-135	WG423248
Fluoranthene	ppm	.01	0.0119	119.*	53-119	WG423248
Fluorene	ppm	.01	0.0115	115.	49-116	WG423248
Hexachloro-1,3-butadiene	ppm	.01	0.00950	95.0	21-116	WG423248
Hexachlorobenzene	ppm	.01	0.0107	107.	51-121	WG423248
Hexachlorocyclopentadiene	ppm	.01	0.00769	76.9	4-126	WG423248
Hexachloroethane	ppm	.01	0.00716	71.6	15-109	WG423248
Indeno(1,2,3-cd)pyrene	ppm	.01	0.0126	126.	40-143	WG423248
Isophorone	ppm	.01	0.00882	88.2	48-126	WG423248
n-Nitrosodi-n-propylamine	ppm	.01	0.00853	85.3	47-122	WG423248
n-Nitrosodimethylamine	ppm	.01	0.00419	41.9	11-69	WG423248
n-Nitrosodiphenylamine	ppm	.01	0.00971	97.1	59-143	WG423248
Naphthalene	ppm	.01	0.00913	91.3	29-103	WG423248
Nitrobenzene	ppm	.01	0.00784	78.4	31-105	WG423248
Pentachlorophenol	ppm	.01	0.00687	68.7	20-122	WG423248
Phenanthrene	ppm	.01	0.0110	110.	54-112	WG423248
Phenol	ppm	.01	0.00382	38.2	17-52	WG423248
Pyrene	ppm	.01	0.00993	99.3	46-130	WG423248
2,4,6-Tribromophenol				101.7	10-148	WG423248
2-Fluorobiphenyl				98.85	26-122	WG423248
2-Fluorophenol				46.91	10-87	WG423248
Nitrobenzene-d5				81.90	12-120	WG423248
Phenol-d5				28.93	10-67	WG423248
p-Terphenyl-d14				121.0	34-149	WG423248
1,2,4-Trichlorobenzene	ppm	.01	0.00781	78.1	26-103	WG423343
2,4,6-Trichlorophenol	ppm	.01	0.00874	87.4	49-118	WG423343
2,4-Dichlorophenol	ppm	.01	0.00861	86.1	46-115	WG423343
2,4-Dimethylphenol	ppm	.01	0.0126	126.*	40-124	WG423343
2,4-Dinitrophenol	ppm	.01	0.00561	56.1	10-125	WG423343
2,4-Dinitrotoluene	ppm	.01	0.0104	104.	56-128	WG423343
2,6-Dinitrotoluene	ppm	.01	0.00968	96.8	56-121	WG423343
2-Chloronaphthalene	ppm	.01	0.00912	91.2	44-110	WG423343
2-Chlorophenol	ppm	.01	0.00748	74.8	38-114	WG423343
2-Nitrophenol	ppm	.01	0.00832	83.2	35-118	WG423343
3,3-Dichlorobenzidine	ppm	.01	0.00941	94.1	46-145	WG423343
4,6-Dinitro-2-methylphenol	ppm	.01	0.00680	68.0	24-119	WG423343
4-Bromophenyl-phenylether	ppm	.01	0.00897	89.7	45-105	WG423343
4-Chloro-3-methylphenol	ppm	.01	0.00810	81.0	47-116	WG423343
4-Chlorophenyl-phenylether	ppm	.01	0.0101	101.	49-116	WG423343
4-Nitrophenol	ppm	.01	0.00216	21.6	10-66	WG423343

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Amy Zach
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Quality Assurance Report
Level II

L404086

June 04, 2009

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Acenaphthene	ppm	.01	0.00986	98.6	48-110	WG423343
Acenaphthylene	ppm	.01	0.00979	97.9	48-113	WG423343
Anthracene	ppm	.01	0.0108	108.	55-127	WG423343
Benzidine	ppm	.01	0.000604	6.04	0-46	WG423343
Benzo(a)anthracene	ppm	.01	0.0105	105.	57-115	WG423343
Benzo(a)pyrene	ppm	.01	0.0110	110.	63-125	WG423343
Benzo(b)fluoranthene	ppm	.01	0.0105	105.	50-123	WG423343
Benzo(g,h,i)perylene	ppm	.01	0.0124	124.	39-143	WG423343
Benzo(k)fluoranthene	ppm	.01	0.0106	106.	45-126	WG423343
Benzylbutyl phthalate	ppm	.01	0.00479	47.9	22-154	WG423343
Bis(2-chlorethoxy)methane	ppm	.01	0.00870	87.0	42-116	WG423343
Bis(2-chloroethyl)ether	ppm	.01	0.00786	78.6	26-115	WG423343
Bis(2-chloroisopropyl)ether	ppm	.01	0.00768	76.8	32-115	WG423343
Bis(2-ethylhexyl)phthalate	ppm	.01	0.00944	94.4	47-143	WG423343
Chrysene	ppm	.01	0.0104	104.	58-113	WG423343
Di-n-butyl phthalate	ppm	.01	0.00776	77.6	51-131	WG423343
Di-n-octyl phthalate	ppm	.01	0.00993	99.3	51-138	WG423343
Dibenz(a,h)anthracene	ppm	.01	0.0120	120.	39-144	WG423343
Diethyl phthalate	ppm	.01	0.00613	61.3	36-128	WG423343
Dimethyl phthalate	ppm	.01	0.00310	31.0	10-135	WG423343
Fluoranthene	ppm	.01	0.0118	118.	53-119	WG423343
Fluorene	ppm	.01	0.0105	105.	49-116	WG423343
Hexachloro-1,3-butadiene	ppm	.01	0.00890	89.0	21-116	WG423343
Hexachlorobenzene	ppm	.01	0.0102	102.	51-121	WG423343
Hexachlorocyclopentadiene	ppm	.01	0.00633	63.3	4-126	WG423343
Hexachloroethane	ppm	.01	0.00680	68.0	15-109	WG423343
Indeno(1,2,3-cd)pyrene	ppm	.01	0.0119	119.	40-143	WG423343
Isophorone	ppm	.01	0.00856	85.6	48-126	WG423343
n-Nitrosodi-n-propylamine	ppm	.01	0.00802	80.2	47-122	WG423343
n-Nitrosodimethylamine	ppm	.01	0.00441	44.1	11-69	WG423343
n-Nitrosodiphenylamine	ppm	.01	0.00945	94.5	59-143	WG423343
Naphthalene	ppm	.01	0.00852	85.2	29-103	WG423343
Nitrobenzene	ppm	.01	0.00760	76.0	31-105	WG423343
Pentachlorophenol	ppm	.01	0.00663	66.3	20-122	WG423343
Phenanthrene	ppm	.01	0.0105	105.	54-112	WG423343
Phenol	ppm	.01	0.00360	36.0	17-52	WG423343
Pyrene	ppm	.01	0.00986	98.6	46-130	WG423343
2,4,6-Tribromophenol				95.72	10-148	WG423343
2-Fluorobiphenyl				91.18	26-122	WG423343
2-Fluorophenol				45.11	10-87	WG423343
Nitrobenzene-d5				66.58	12-120	WG423343
Phenol-d5				28.50	10-67	WG423343
p-Terphenyl-d14				119.1	34-149	WG423343
Total Solids	%	50	50.0	100.	85-115	WG423615
Total Solids	%	50	50.0	100.	85-115	WG423616
1,2,4-Trichlorobenzene	ppm	.333	0.195	58.4	46-99	WG423636
2,4,6-Trichlorophenol	ppm	.333	0.215	64.6	56-109	WG423636
2,4-Dichlorophenol	ppm	.333	0.215	64.5	54-107	WG423636
2,4-Dimethylphenol	ppm	.333	0.332	99.7	58-119	WG423636
2,4-Dinitrophenol	ppm	.333	0.176	52.8	16-130	WG423636
2,4-Dinitrotoluene	ppm	.333	0.211	63.4	53-120	WG423636
2,6-Dinitrotoluene	ppm	.333	0.208	62.5	56-113	WG423636
2-Chloronaphthalene	ppm	.333	0.210	63.2	55-103	WG423636

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Amy Zach
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Quality Assurance Report
Level II

L404086

June 04, 2009

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
2-Chlorophenol	ppm	.333	0.199	59.9	52-108	WG423636
2-Nitrophenol	ppm	.333	0.213	64.0	38-110	WG423636
3,3-Dichlorobenzidine	ppm	.333	0.194	58.2	24-123	WG423636
4,6-Dinitro-2-methylphenol	ppm	.333	0.243	73.1	34-111	WG423636
4-Bromophenyl-phenylether	ppm	.333	0.194	58.2	47-98	WG423636
4-Chloro-3-methylphenol	ppm	.333	0.211	63.4	54-116	WG423636
4-Chlorophenyl-phenylether	ppm	.333	0.209	62.6	55-106	WG423636
4-Nitrophenol	ppm	.333	0.219	65.7	34-123	WG423636
Acenaphthene	ppm	.333	0.214	64.2	54-102	WG423636
Acenaphthylene	ppm	.333	0.225	67.4	56-104	WG423636
Anthracene	ppm	.333	0.232	69.7	57-112	WG423636
Benzidine	ppm	.333	0.00951	2.86	0-13	WG423636
Benzo(a)anthracene	ppm	.333	0.214	64.3	55-105	WG423636
Benzo(a)pyrene	ppm	.333	0.223	66.9	59-114	WG423636
Benzo(b)fluoranthene	ppm	.333	0.230	69.1	44-116	WG423636
Benzo(g,h,i)perylene	ppm	.333	0.269	80.8	41-127	WG423636
Benzo(k)fluoranthene	ppm	.333	0.184	55.2	36-119	WG423636
Benzylbutyl phthalate	ppm	.333	0.201	60.2	57-130	WG423636
Bis(2-chlorethoxy)methane	ppm	.333	0.197	59.2	52-107	WG423636
Bis(2-chloroethyl)ether	ppm	.333	0.187	56.3	38-115	WG423636
Bis(2-chloroisopropyl)ether	ppm	.333	0.182	54.7	49-106	WG423636
Bis(2-ethylhexyl)phthalate	ppm	.333	0.198	59.4	50-130	WG423636
Chrysene	ppm	.333	0.215	64.4	54-103	WG423636
Di-n-butyl phthalate	ppm	.333	0.204	61.1	56-121	WG423636
Di-n-octyl phthalate	ppm	.333	0.196	59.0	50-128	WG423636
Dibenz(a,h)anthracene	ppm	.333	0.268	80.5	42-128	WG423636
Diethyl phthalate	ppm	.333	0.206	61.8	57-110	WG423636
Dimethyl phthalate	ppm	.333	0.206	61.8	57-108	WG423636
Fluoranthene	ppm	.333	0.228	68.4	51-109	WG423636
Fluorene	ppm	.333	0.219	65.8	53-106	WG423636
Hexachloro-1,3-butadiene	ppm	.333	0.221	66.4	46-110	WG423636
Hexachlorobenzene	ppm	.333	0.230	69.1	51-117	WG423636
Hexachlorocyclopentadiene	ppm	.333	0.169	50.7	21-127	WG423636
Hexachloroethane	ppm	.333	0.171	51.2	43-104	WG423636
Indeno(1,2,3-cd)pyrene	ppm	.333	0.264	79.3	42-127	WG423636
Isophorone	ppm	.333	0.184	55.4*	56-116	WG423636
n-Nitrosodi-n-propylamine	ppm	.333	0.189	56.8	54-113	WG423636
n-Nitrosodimethylamine	ppm	.333	0.212	63.6	35-111	WG423636
n-Nitrosodiphenylamine	ppm	.333	0.199	59.8*	66-126	WG423636
Naphthalene	ppm	.333	0.208	62.4	46-97	WG423636
Nitrobenzene	ppm	.333	0.175	52.5	46-102	WG423636
Pentachlorophenol	ppm	.333	0.177	53.2	37-118	WG423636
Phenanthrene	ppm	.333	0.210	63.2	56-102	WG423636
Phenol	ppm	.333	0.209	62.7	55-115	WG423636
Pyrene	ppm	.333	0.207	62.3	53-111	WG423636
2,4,6-Tribromophenol				62.50	25-137	WG423636
2-Fluorobiphenyl				51.37	30-120	WG423636
2-Fluorophenol				49.25	26-130	WG423636
Nitrobenzene-d5				42.14	18-119	WG423636
Phenol-d5				48.69	37-141	WG423636
p-Terphenyl-d14				61.43	23-143	WG423636
1,2,4-Trichlorobenzene	ppm	.01	0.00418	41.8	26-103	WG423641
2,4,6-Trichlorophenol	ppm	.01	0.00751	75.1	49-118	WG423641
2,4-Dichlorophenol	ppm	.01	0.00690	69.0	46-115	WG423641
2,4-Dimethylphenol	ppm	.01	0.0104	104.	40-124	WG423641
2,4-Dinitrophenol	ppm	.01	0.00451	45.1	10-125	WG423641
2,4-Dinitrotoluene	ppm	.01	0.00879	87.9	56-128	WG423641

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Fax (615) 758-5859

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Est. 1970

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Amy Zach
7730 SW Mohawk Street

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Quality Assurance Report
Level II

L404086

June 04, 2009

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
2,6-Dinitrotoluene	ppm	.01	0.00774	77.4	56-121	WG423641
2-Chloronaphthalene	ppm	.01	0.00703	70.3	44-110	WG423641
2-Chlorophenol	ppm	.01	0.00552	55.2	38-114	WG423641
2-Nitrophenol	ppm	.01	0.00682	68.2	35-118	WG423641
3,3-Dichlorobenzidine	ppm	.01	0.00822	82.2	46-145	WG423641
4,6-Dinitro-2-methylphenol	ppm	.01	0.00697	69.7	24-119	WG423641
4-Bromophenyl-phenylether	ppm	.01	0.00688	68.8	45-105	WG423641
4-Chloro-3-methylphenol	ppm	.01	0.00669	66.9	47-116	WG423641
4-Chlorophenyl-phenylether	ppm	.01	0.00790	79.0	49-116	WG423641
4-Nitrophenol	ppm	.01	0.00179	17.9	10-66	WG423641
Acenaphthene	ppm	.01	0.00801	80.1	48-110	WG423641
Acenaphthylene	ppm	.01	0.00804	80.4	48-113	WG423641
Anthracene	ppm	.01	0.00870	87.0	55-127	WG423641
Benzidine	ppm	.01	0.000622	6.22	0-46	WG423641
Benzo(a)anthracene	ppm	.01	0.00863	86.3	57-115	WG423641
Benzo(a)pyrene	ppm	.01	0.00903	90.3	63-125	WG423641
Benzo(b)fluoranthene	ppm	.01	0.00794	79.4	50-123	WG423641
Benzo(g,h,i)perylene	ppm	.01	0.0106	106.	39-143	WG423641
Benzo(k)fluoranthene	ppm	.01	0.00856	85.6	45-126	WG423641
Benzylbutyl phthalate	ppm	.01	0.00378	37.8	22-154	WG423641
Bis(2-chlorethoxy)methane	ppm	.01	0.00596	59.6	42-116	WG423641
Bis(2-chloroethyl)ether	ppm	.01	0.00375	37.5	26-115	WG423641
Bis(2-chloroisopropyl)ether	ppm	.01	0.00402	40.2	32-115	WG423641
Bis(2-ethylhexyl)phthalate	ppm	.01	0.00736	73.6	47-143	WG423641
Chrysene	ppm	.01	0.00802	80.2	58-113	WG423641
Di-n-butyl phthalate	ppm	.01	0.00662	66.2	51-131	WG423641
Di-n-octyl phthalate	ppm	.01	0.00740	74.0	51-138	WG423641
Dibenz(a,h)anthracene	ppm	.01	0.0106	106.	39-144	WG423641
Diethyl phthalate	ppm	.01	0.00545	54.5	36-128	WG423641
Dimethyl phthalate	ppm	.01	0.00222	22.2	10-135	WG423641
Fluoranthene	ppm	.01	0.00861	86.1	53-119	WG423641
Fluorene	ppm	.01	0.00833	83.3	49-116	WG423641
Hexachloro-1,3-butadiene	ppm	.01	0.00435	43.5	21-116	WG423641
Hexachlorobenzene	ppm	.01	0.00812	81.2	51-121	WG423641
Hexachlorocyclopentadiene	ppm	.01	0.00414	41.4	4-126	WG423641
Hexachloroethane	ppm	.01	0.00237	23.7	15-109	WG423641
Indeno(1,2,3-cd)pyrene	ppm	.01	0.0104	104.	40-143	WG423641
Isophorone	ppm	.01	0.00596	59.6	48-126	WG423641
n-Nitrosodi-n-propylamine	ppm	.01	0.00556	55.6	47-122	WG423641
n-Nitrosodimethylamine	ppm	.01	0.00226	22.6	11-69	WG423641
n-Nitrosodiphenylamine	ppm	.01	0.00721	72.1	59-143	WG423641
Naphthalene	ppm	.01	0.00492	49.2	29-103	WG423641
Nitrobenzene	ppm	.01	0.00420	42.0	31-105	WG423641
Pentachlorophenol	ppm	.01	0.00467	46.7	20-122	WG423641
Phenanthrene	ppm	.01	0.00788	78.8	54-112	WG423641
Phenol	ppm	.01	0.00253	25.3	17-52	WG423641
Pyrene	ppm	.01	0.00753	75.3	46-130	WG423641
2,4,6-Tribromophenol				84.25	10-148	WG423641
2-Fluorobiphenyl				72.48	26-122	WG423641
2-Fluorophenol				30.70	10-87	WG423641
Nitrobenzene-d5				40.82	12-120	WG423641
Phenol-d5				21.44	10-67	WG423641
p-Terphenyl-d14				95.02	34-149	WG423641
Arsenic	mg/kg	192	184.	95.8	78.6-120.8	WG423648
Barium	mg/kg	420	422.	100.	78.8-121.4	WG423648
Cadmium	mg/kg	70.1	64.5	92.0	78.5-121.5	WG423648
Chromium	mg/kg	168	169.	101.	80.4-120.2	WG423648

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Quality Assurance Report
Level II

L404086

June 04, 2009

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Lead	mg/kg	113	110.	97.3	77.3-122.1	WG423648
Silver	mg/kg	115	114.	99.1	66-133.9	WG423648
Arsenic	mg/l	1.13	1.02	90.3	85-115	WG423914
Barium	mg/l	1.13	1.09	96.5	85-115	WG423914
Cadmium	mg/l	1.13	1.06	93.8	85-115	WG423914
Chromium	mg/l	1.13	1.03	91.2	85-115	WG423914
Lead	mg/l	1.13	1.05	92.9	85-115	WG423914
Selenium	mg/l	1.13	0.979	86.6	85-115	WG423914
Silver	mg/l	1.13	1.10	97.3	85-115	WG423914
Selenium	mg/kg	176	149.	84.7	75.6-125.0	WG424615

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0513	0.0519	103.	75-134	1.03	20	WG423255
1,1,1-Trichloroethane	mg/l	0.0447	0.0490	89.0	67-137	9.26	20	WG423255
1,1,2,2-Tetrachloroethane	mg/l	0.0496	0.0510	99.0	72-128	2.83	20	WG423255
1,1,2-Trichloroethane	mg/l	0.0440	0.0480	88.0	79-123	8.56	20	WG423255
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0402	0.0462	80.0	51-149	13.9	20	WG423255
1,1-Dichloroethane	mg/l	0.0440	0.0487	88.0	67-133	10.2	20	WG423255
1,1-Dichloroethene	mg/l	0.0410	0.0465	82.0	60-130	12.7	20	WG423255
1,1-Dichloropropene	mg/l	0.0438	0.0480	88.0	68-132	9.05	20	WG423255
1,2,3-Trichlorobenzene	mg/l	0.0514	0.0544	103.	63-138	5.69	20	WG423255
1,2,3-Trichloropropane	mg/l	0.0496	0.0532	99.0	68-130	7.00	20	WG423255
1,2,3-Trimethylbenzene	mg/l	0.0491	0.0514	98.0	70-127	4.71	20	WG423255
1,2,4-Trichlorobenzene	mg/l	0.0507	0.0516	101.	65-137	1.79	20	WG423255
1,2,4-Trimethylbenzene	mg/l	0.0525	0.0556	105.	72-135	5.75	20	WG423255
1,2-Dibromo-3-Chloropropane	mg/l	0.0521	0.0556	104.	55-134	6.54	20	WG423255
1,2-Dibromoethane	mg/l	0.0485	0.0491	97.0	75-126	1.33	20	WG423255
1,2-Dichlorobenzene	mg/l	0.0477	0.0498	95.0	75-122	4.21	20	WG423255
1,2-Dichloroethane	mg/l	0.0435	0.0467	87.0	63-137	7.11	20	WG423255
1,2-Dichloropropane	mg/l	0.0435	0.0473	87.0	74-122	8.50	20	WG423255
1,3,5-Trimethylbenzene	mg/l	0.0522	0.0553	104.	73-134	5.66	20	WG423255
1,3-Dichlorobenzene	mg/l	0.0488	0.0516	98.0	73-131	5.61	20	WG423255
1,3-Dichloropropane	mg/l	0.0454	0.0478	91.0	77-119	5.09	20	WG423255
1,4-Dichlorobenzene	mg/l	0.0472	0.0482	94.0	70-121	2.09	20	WG423255
2,2-Dichloropropane	mg/l	0.0455	0.0503	91.0	46-151	10.0	20	WG423255
2-Butanone (MEK)	mg/l	0.211	0.234	85.0	53-132	10.3	20	WG423255
2-Chloroethyl vinyl ether	mg/l	0.249	0.287	100.	0-171	14.3	27	WG423255
2-Chlorotoluene	mg/l	0.0489	0.0519	98.0	74-128	5.81	20	WG423255
4-Chlorotoluene	mg/l	0.0499	0.0520	100.	74-130	4.08	20	WG423255
4-Methyl-2-pentanone (MIBK)	mg/l	0.246	0.258	98.0	60-142	4.82	20	WG423255
Acetone	mg/l	0.216	0.241	86.0	48-134	11.0	20	WG423255
Acrolein	mg/l	0.215	0.253	86.0	6-182	16.1	39	WG423255
Acrylonitrile	mg/l	0.230	0.255	92.0	60-140	10.3	20	WG423255
Benzene	mg/l	0.0440	0.0478	88.0	67-126	8.12	20	WG423255
Bromobenzene	mg/l	0.0464	0.0495	93.0	76-123	6.62	20	WG423255
Bromodichloromethane	mg/l	0.0472	0.0501	94.0	68-133	6.02	20	WG423255
Bromoform	mg/l	0.0543	0.0563	109.	60-139	3.66	20	WG423255
Bromomethane	mg/l	0.0407	0.0459	81.0	45-175	12.0	20	WG423255
Carbon tetrachloride	mg/l	0.0451	0.0496	90.0	64-141	9.36	20	WG423255
Chlorobenzene	mg/l	0.0486	0.0511	97.0	77-125	5.00	20	WG423255
Chlorodibromomethane	mg/l	0.0518	0.0527	104.	73-138	1.69	20	WG423255
Chloroethane	mg/l	0.0400	0.0466	80.0	49-155	15.4	20	WG423255
Chloroform	mg/l	0.0424	0.0462	85.0	66-126	8.61	20	WG423255

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ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404086

June 04, 2009

		Laboratory Control Sample				Duplicate		
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Chloromethane	mg/l	0.0413	0.0466	83.0	45-152	12.2	20	WG423255
cis-1,2-Dichloroethene	mg/l	0.0443	0.0489	89.0	72-128	9.87	20	WG423255
cis-1,3-Dichloropropene	mg/l	0.0493	0.0515	99.0	73-131	4.39	20	WG423255
Di-isopropyl ether	mg/l	0.0474	0.0519	95.0	63-139	9.22	20	WG423255
Dibromomethane	mg/l	0.0438	0.0474	88.0	73-125	7.97	20	WG423255
Dichlorodifluoromethane	mg/l	0.0413	0.0448	83.0	39-189	8.11	24	WG423255
Ethylbenzene	mg/l	0.0489	0.0522	98.0	76-129	6.61	20	WG423255
Hexachloro-1,3-Butadiene	mg/l	0.0473	0.0513	95.0	67-135	8.10	20	WG423255
Isopropylbenzene	mg/l	0.0505	0.0535	101.	73-132	5.94	20	WG423255
Methyl tert-butyl ether	mg/l	0.0443	0.0487	89.0	51-142	9.54	20	WG423255
Methylene Chloride	mg/l	0.0423	0.0465	85.0	64-125	9.50	20	WG423255
n-Butylbenzene	mg/l	0.0506	0.0538	101.	63-142	6.10	20	WG423255
n-Propylbenzene	mg/l	0.0497	0.0526	99.0	71-132	5.70	20	WG423255
Naphthalene	mg/l	0.0538	0.0558	108.	56-145	3.69	20	WG423255
p-Isopropyltoluene	mg/l	0.0535	0.0568	107.	68-138	5.85	20	WG423255
sec-Butylbenzene	mg/l	0.0522	0.0560	104.	70-135	7.07	20	WG423255
Styrene	mg/l	0.0515	0.0555	103.	78-130	7.40	20	WG423255
tert-Butylbenzene	mg/l	0.0513	0.0538	103.	72-134	4.73	20	WG423255
Tetrachloroethene	mg/l	0.0444	0.0445	89.0	67-135	0.381	20	WG423255
Toluene	mg/l	0.0448	0.0478	90.0	72-122	6.40	20	WG423255
trans-1,2-Dichloroethene	mg/l	0.0430	0.0460	86.0	67-129	6.83	20	WG423255
trans-1,3-Dichloropropene	mg/l	0.0499	0.0528	100.	66-137	5.61	20	WG423255
Trichloroethene	mg/l	0.0451	0.0483	90.0	74-126	6.75	20	WG423255
Trichlorofluoromethane	mg/l	0.0415	0.0465	83.0	54-156	11.3	20	WG423255
Vinyl chloride	mg/l	0.0442	0.0488	88.0	55-153	9.88	20	WG423255
4-Bromofluorobenzene				103.6	75-128			WG423255
Dibromofluoromethane				98.66	79-125			WG423255
Toluene-d8				98.22	87-114			WG423255
1,1,1,2-Tetrachloroethane	mg/l	0.0456	0.0454	91.0	75-134	0.493	20	WG423281
1,1,1-Trichloroethane	mg/l	0.0501	0.0518	100.	67-137	3.32	20	WG423281
1,1,2,2-Tetrachloroethane	mg/l	0.0442	0.0444	88.0	72-128	0.536	20	WG423281
1,1,2-Trichloroethane	mg/l	0.0416	0.0427	83.0	79-123	2.54	20	WG423281
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0385	0.0398	77.0	51-149	3.48	20	WG423281
1,1-Dichloroethane	mg/l	0.0525	0.0544	105.	67-133	3.42	20	WG423281
1,1-Dichloroethene	mg/l	0.0426	0.0434	85.0	60-130	1.95	20	WG423281
1,1-Dichloropropene	mg/l	0.0526	0.0554	105.	68-132	5.14	20	WG423281
1,2,3-Trichlorobenzene	mg/l	0.0477	0.0481	95.0	63-138	0.834	20	WG423281
1,2,3-Trichloropropane	mg/l	0.0461	0.0472	92.0	68-130	2.19	20	WG423281
1,2,3-Trimethylbenzene	mg/l	0.0444	0.0452	89.0	70-127	1.97	20	WG423281
1,2,4-Trichlorobenzene	mg/l	0.0502	0.0515	100.	65-137	2.59	20	WG423281
1,2,4-Trimethylbenzene	mg/l	0.0463	0.0453	93.0	72-135	2.10	20	WG423281
1,2-Dibromo-3-Chloropropane	mg/l	0.0443	0.0443	89.0	55-134	0.0465	20	WG423281
1,2-Dibromoethane	mg/l	0.0469	0.0463	94.0	75-126	1.20	20	WG423281
1,2-Dichlorobenzene	mg/l	0.0462	0.0468	92.0	75-122	1.17	20	WG423281
1,2-Dichloroethane	mg/l	0.0537	0.0575	107.	63-137	6.89	20	WG423281
1,2-Dichloropropane	mg/l	0.0482	0.0516	96.0	74-122	6.75	20	WG423281
1,3,5-Trimethylbenzene	mg/l	0.0455	0.0453	91.0	73-134	0.379	20	WG423281
1,3-Dichlorobenzene	mg/l	0.0460	0.0466	92.0	73-131	1.45	20	WG423281
1,3-Dichloropropane	mg/l	0.0455	0.0468	91.0	77-119	2.90	20	WG423281
1,4-Dichlorobenzene	mg/l	0.0459	0.0467	92.0	70-121	1.68	20	WG423281
2,2-Dichloropropane	mg/l	0.0499	0.0532	100.	46-151	6.34	20	WG423281
2-Butanone (MEK)	mg/l	0.218	0.238	87.0	53-132	8.97	20	WG423281
2-Chloroethyl vinyl ether	mg/l	0.145	0.168	58.0	0-171	14.4	27	WG423281
2-Chlorotoluene	mg/l	0.0469	0.0464	94.0	74-128	1.01	20	WG423281
4-Chlorotoluene	mg/l	0.0452	0.0456	90.0	74-130	0.715	20	WG423281
4-Methyl-2-pentanone (MIBK)	mg/l	0.232	0.251	93.0	60-142	7.95	20	WG423281
Acetone	mg/l	0.233	0.260	93.0	48-134	11.0	20	WG423281

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12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404086

June 04, 2009

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
Acrolein	mg/l	0.199	0.204	80.0	6-182	2.27	39	WG423281
Acrylonitrile	mg/l	0.231	0.248	93.0	60-140	7.08	20	WG423281
Benzene	mg/l	0.0493	0.0513	99.0	67-126	3.98	20	WG423281
Bromobenzene	mg/l	0.0452	0.0457	90.0	76-123	1.14	20	WG423281
Bromodichloromethane	mg/l	0.0444	0.0464	89.0	68-133	4.50	20	WG423281
Bromoform	mg/l	0.0421	0.0428	84.0	60-139	1.57	20	WG423281
Bromomethane	mg/l	0.0424	0.0467	85.0	45-175	9.72	20	WG423281
Carbon tetrachloride	mg/l	0.0527	0.0491	105.	64-141	7.24	20	WG423281
Chlorobenzene	mg/l	0.0442	0.0446	88.0	77-125	0.841	20	WG423281
Chlorodibromomethane	mg/l	0.0417	0.0426	83.0	73-138	2.08	20	WG423281
Chloroethane	mg/l	0.0459	0.0472	92.0	49-155	2.87	20	WG423281
Chloroform	mg/l	0.0528	0.0542	106.	66-126	2.53	20	WG423281
Chloromethane	mg/l	0.0475	0.0498	95.0	45-152	4.78	20	WG423281
cis-1,2-Dichloroethene	mg/l	0.0479	0.0491	96.0	72-128	2.48	20	WG423281
cis-1,3-Dichloropropene	mg/l	0.0505	0.0533	101.	73-131	5.40	20	WG423281
Di-isopropyl ether	mg/l	0.0489	0.0510	98.0	63-139	4.16	20	WG423281
Dibromomethane	mg/l	0.0472	0.0500	94.0	73-125	5.77	20	WG423281
Dichlorodifluoromethane	mg/l	0.0424	0.0457	85.0	39-189	7.36	24	WG423281
Ethylbenzene	mg/l	0.0459	0.0456	92.0	76-129	0.722	20	WG423281
Hexachloro-1,3-Butadiene	mg/l	0.0509	0.0506	102.	67-135	0.587	20	WG423281
Isopropylbenzene	mg/l	0.0455	0.0455	91.0	73-132	0.166	20	WG423281
Methyl tert-butyl ether	mg/l	0.0446	0.0461	89.0	51-142	3.30	20	WG423281
Methylene Chloride	mg/l	0.0456	0.0468	91.0	64-125	2.43	20	WG423281
n-Butylbenzene	mg/l	0.0469	0.0478	94.0	63-142	1.85	20	WG423281
n-Propylbenzene	mg/l	0.0459	0.0459	92.0	71-132	0.138	20	WG423281
Naphthalene	mg/l	0.0519	0.0527	104.	56-145	1.43	20	WG423281
p-Isopropyltoluene	mg/l	0.0447	0.0439	89.0	68-138	1.69	20	WG423281
sec-Butylbenzene	mg/l	0.0453	0.0457	91.0	70-135	0.835	20	WG423281
Styrene	mg/l	0.0460	0.0463	92.0	78-130	0.478	20	WG423281
tert-Butylbenzene	mg/l	0.0437	0.0436	87.0	72-134	0.389	20	WG423281
Tetrachloroethene	mg/l	0.0427	0.0440	85.0	67-135	3.08	20	WG423281
Toluene	mg/l	0.0467	0.0489	93.0	72-122	4.63	20	WG423281
trans-1,2-Dichloroethene	mg/l	0.0474	0.0493	95.0	67-129	3.90	20	WG423281
trans-1,3-Dichloropropene	mg/l	0.0492	0.0514	98.0	66-137	4.55	20	WG423281
Trichloroethene	mg/l	0.0463	0.0486	93.0	74-126	4.86	20	WG423281
Trichlorofluoromethane	mg/l	0.0463	0.0482	93.0	54-156	4.00	20	WG423281
Vinyl chloride	mg/l	0.0504	0.0538	101.	55-153	6.65	20	WG423281
4-Bromofluorobenzene				96.33	75-128			WG423281
Dibromofluoromethane				98.87	79-125			WG423281
Toluene-d8				104.1	87-114			WG423281
1,1,1,2-Tetrachloroethane	mg/kg	0.0456	0.0469	91.0	73-134	2.79	20	WG423335
1,1,1-Trichloroethane	mg/kg	0.0503	0.0528	101.	62-135	4.95	20	WG423335
1,1,2,2-Tetrachloroethane	mg/kg	0.0430	0.0443	86.0	74-129	2.78	20	WG423335
1,1,2-Trichloroethane	mg/kg	0.0428	0.0434	86.0	77-124	1.40	20	WG423335
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0383	0.0394	77.0	49-155	2.82	20	WG423335
1,1-Dichloroethane	mg/kg	0.0539	0.0559	108.	61-134	3.70	20	WG423335
1,1-Dichloroethene	mg/kg	0.0431	0.0442	86.0	53-136	2.41	20	WG423335
1,1-Dichloropropene	mg/kg	0.0542	0.0555	108.	63-132	2.47	20	WG423335
1,2,3-Trichlorobenzene	mg/kg	0.0456	0.0460	91.0	62-146	0.889	20	WG423335
1,2,3-Trichloropropane	mg/kg	0.0467	0.0472	93.0	70-133	1.07	20	WG423335
1,2,4-Trichlorobenzene	mg/kg	0.0485	0.0506	97.0	61-148	4.36	20	WG423335
1,2,4-Trimethylbenzene	mg/kg	0.0456	0.0465	91.0	68-135	1.94	20	WG423335
1,2-Dibromo-3-Chloropropane	mg/kg	0.0430	0.0440	86.0	61-134	2.38	21	WG423335
1,2-Dibromoethane	mg/kg	0.0462	0.0466	92.0	76-127	0.859	20	WG423335
1,2-Dichlorobenzene	mg/kg	0.0468	0.0484	94.0	77-123	3.35	20	WG423335
1,2-Dichloroethane	mg/kg	0.0552	0.0578	110.	58-141	4.66	20	WG423335
1,2-Dichloropropane	mg/kg	0.0523	0.0515	105.	71-128	1.51	20	WG423335

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ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

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Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street
Tualatin, OR 97062

Quality Assurance Report
Level II

L404086

June 04, 2009

		Laboratory Control Sample				Duplicate		
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,3,5-Trimethylbenzene	mg/kg	0.0453	0.0464	91.0	71-133	2.41	20	WG423335
1,3-Dichlorobenzene	mg/kg	0.0459	0.0474	92.0	71-132	3.14	20	WG423335
1,3-Dichloropropane	mg/kg	0.0463	0.0472	93.0	76-120	1.94	20	WG423335
1,4-Dichlorobenzene	mg/kg	0.0466	0.0475	93.0	72-123	2.02	20	WG423335
2,2-Dichloropropane	mg/kg	0.0511	0.0523	102.	50-147	2.40	20	WG423335
2-Butanone (MEK)	mg/kg	0.229	0.235	92.0	51-131	2.48	25	WG423335
2-Chloroethyl vinyl ether	mg/kg	0.150	0.162	60.0	0-188	7.90	39	WG423335
2-Chlorotoluene	mg/kg	0.0459	0.0474	92.0	73-128	3.07	20	WG423335
4-Chlorotoluene	mg/kg	0.0451	0.0461	90.0	72-129	2.34	20	WG423335
4-Methyl-2-pentanone (MIBK)	mg/kg	0.237	0.238	95.0	61-143	0.512	23	WG423335
Acetone	mg/kg	0.244	0.255	98.0	44-140	4.35	25	WG423335
Acrylonitrile	mg/kg	0.240	0.251	96.0	55-143	4.37	20	WG423335
Benzene	mg/kg	0.0509	0.0528	102.	65-128	3.48	20	WG423335
Bromobenzene	mg/kg	0.0458	0.0461	92.0	75-123	0.709	20	WG423335
Bromodichloromethane	mg/kg	0.0450	0.0460	90.0	66-126	2.31	20	WG423335
Bromoform	mg/kg	0.0422	0.0423	84.0	64-139	0.239	20	WG423335
Bromomethane	mg/kg	0.0453	0.0470	91.0	41-175	3.54	20	WG423335
Carbon tetrachloride	mg/kg	0.0528	0.0536	106.	60-140	1.53	20	WG423335
Chlorobenzene	mg/kg	0.0444	0.0454	89.0	75-125	2.14	20	WG423335
Chlorodibromomethane	mg/kg	0.0424	0.0435	85.0	72-137	2.58	20	WG423335
Chloroethane	mg/kg	0.0495	0.0509	99.0	44-159	2.70	20	WG423335
Chloroform	mg/kg	0.0539	0.0555	108.	63-123	2.91	20	WG423335
Chloromethane	mg/kg	0.0517	0.0531	103.	42-149	2.65	20	WG423335
cis-1,2-Dichloroethene	mg/kg	0.0490	0.0506	98.0	71-129	3.26	20	WG423335
cis-1,3-Dichloropropene	mg/kg	0.0526	0.0533	105.	73-132	1.44	20	WG423335
Di-isopropyl ether	mg/kg	0.0502	0.0516	100.	59-143	2.75	20	WG423335
Dibromomethane	mg/kg	0.0495	0.0492	99.0	70-130	0.543	20	WG423335
Dichlorodifluoromethane	mg/kg	0.0473	0.0494	95.0	26-186	4.45	22	WG423335
Ethylbenzene	mg/kg	0.0458	0.0465	92.0	74-128	1.43	20	WG423335
Hexachloro-1,3-Butadiene	mg/kg	0.0502	0.0513	100.	65-137	2.10	20	WG423335
Isopropylbenzene	mg/kg	0.0452	0.0461	90.0	73-130	1.87	20	WG423335
Methyl tert-butyl ether	mg/kg	0.0451	0.0462	90.0	44-148	2.48	20	WG423335
Methylene Chloride	mg/kg	0.0459	0.0477	92.0	57-129	3.88	20	WG423335
n-Butylbenzene	mg/kg	0.0478	0.0485	96.0	60-145	1.49	20	WG423335
n-Propylbenzene	mg/kg	0.0458	0.0464	92.0	71-132	1.43	20	WG423335
Naphthalene	mg/kg	0.0474	0.0490	95.0	61-142	3.41	20	WG423335
p-Isopropyltoluene	mg/kg	0.0442	0.0453	88.0	67-138	2.38	20	WG423335
sec-Butylbenzene	mg/kg	0.0456	0.0460	91.0	71-134	0.969	20	WG423335
Styrene	mg/kg	0.0458	0.0470	92.0	76-133	2.54	20	WG423335
tert-Butylbenzene	mg/kg	0.0435	0.0449	87.0	72-132	3.23	20	WG423335
Tetrachloroethene	mg/kg	0.0435	0.0427	87.0	65-135	1.77	20	WG423335
Toluene	mg/kg	0.0486	0.0487	97.0	70-120	0.191	20	WG423335
trans-1,2-Dichloroethene	mg/kg	0.0494	0.0505	99.0	61-133	2.24	20	WG423335
trans-1,3-Dichloropropene	mg/kg	0.0511	0.0520	102.	70-135	1.86	20	WG423335
Trichloroethene	mg/kg	0.0485	0.0486	97.0	71-126	0.322	20	WG423335
Trichlorofluoromethane	mg/kg	0.0492	0.0499	98.0	52-147	1.42	20	WG423335
Vinyl chloride	mg/kg	0.0556	0.0576	111.	50-151	3.51	20	WG423335
4-Bromofluorobenzene				95.24	59-140			WG423335
Dibromofluoromethane				100.8	63-139			WG423335
Toluene-d8				104.5	84-116			WG423335
1,2,4-Trichlorobenzene	ppm	0.00783	0.00838	78.0	26-103	6.80	38	WG423248
2,4,6-Trichlorophenol	ppm	0.00824	0.00889	82.0	49-118	7.61	28	WG423248
2,4-Dichlorophenol	ppm	0.00894	0.00899	89.0	46-115	0.612	28	WG423248
2,4-Dimethylphenol	ppm	0.0125	0.0136	125*	40-124	8.45	36	WG423248
2,4-Dinitrophenol	ppm	0.00734	0.00697	73.0	10-125	5.12	50	WG423248
2,4-Dinitrotoluene	ppm	0.0101	0.0110	101.	56-128	8.99	24	WG423248
2,6-Dinitrotoluene	ppm	0.00893	0.0102	89.0	56-121	13.3	23	WG423248

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ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404086

June 04, 2009

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
2-Chloronaphthalene	ppm	0.00897	0.0102	90.0	44-110	13.1	30	WG423248
2-Chlorophenol	ppm	0.00740	0.00765	74.0	38-114	3.34	36	WG423248
2-Nitrophenol	ppm	0.00833	0.00893	83.0	35-118	6.91	35	WG423248
3,3-Dichlorobenzidine	ppm	0.00948	0.00965	95.0	46-145	1.86	31	WG423248
4,6-Dinitro-2-methylphenol	ppm	0.00774	0.00768	77.0	24-119	0.752	50	WG423248
4-Bromophenyl-phenylether	ppm	0.00833	0.00904	83.0	45-105	8.21	26	WG423248
4-Chloro-3-methylphenol	ppm	0.00846	0.00918	85.0	47-116	8.13	22	WG423248
4-Chlorophenyl-phenylether	ppm	0.00948	0.0103	95.0	49-116	7.91	26	WG423248
4-Nitrophenol	ppm	0.00239	0.00234	24.0	10-66	1.97	37	WG423248
Acenaphthene	ppm	0.00985	0.0106	99.0	48-110	6.90	26	WG423248
Acenaphthylene	ppm	0.00981	0.0112	98.0	48-113	12.8	28	WG423248
Anthracene	ppm	0.0107	0.0116	107.	55-127	7.99	24	WG423248
Benzidine	ppm	0.000581	0.000508	6.00	0-46	13.5	50	WG423248
Benzo(a)anthracene	ppm	0.0104	0.0110	104.	57-115	5.27	20	WG423248
Benzo(a)pyrene	ppm	0.0107	0.0115	107.	63-125	7.27	22	WG423248
Benzo(b)fluoranthene	ppm	0.0105	0.0112	105.	50-123	6.47	32	WG423248
Benzo(g,h,i)perylene	ppm	0.0122	0.0130	122.	39-143	6.53	31	WG423248
Benzo(k)fluoranthene	ppm	0.00927	0.0105	93.0	45-126	12.8	37	WG423248
Benzylbutyl phthalate	ppm	0.00536	0.00603	54.0	22-154	11.7	29	WG423248
Bis(2-chlorethoxy)methane	ppm	0.00837	0.00893	84.0	42-116	6.52	38	WG423248
Bis(2-chloroethyl)ether	ppm	0.00779	0.00827	78.0	26-115	5.97	50	WG423248
Bis(2-chloroisopropyl)ether	ppm	0.00764	0.00808	76.0	32-115	5.50	47	WG423248
Bis(2-ethylhexyl)phthalate	ppm	0.00854	0.00929	85.0	47-143	8.42	24	WG423248
Chrysene	ppm	0.00987	0.0106	99.0	58-113	7.14	21	WG423248
Di-n-butyl phthalate	ppm	0.00796	0.00886	80.0	51-131	10.8	22	WG423248
Di-n-octyl phthalate	ppm	0.00919	0.00972	92.0	51-138	5.64	22	WG423248
Dibenz(a,h)anthracene	ppm	0.0123	0.0127	123.	39-144	3.19	30	WG423248
Diethyl phthalate	ppm	0.00610	0.00731	61.0	36-128	18.0	27	WG423248
Dimethyl phthalate	ppm	0.00322	0.00376	32.0	10-135	15.2	33	WG423248
Fluoranthene	ppm	0.0110	0.0119	110.	53-119	8.41	28	WG423248
Fluorene	ppm	0.0102	0.0115	102.	49-116	12.0	25	WG423248
Hexachloro-1,3-butadiene	ppm	0.00875	0.00950	87.0	21-116	8.22	50	WG423248
Hexachlorobenzene	ppm	0.00963	0.0107	96.0	51-121	10.3	23	WG423248
Hexachlorocyclopentadiene	ppm	0.00706	0.00769	71.0	4-126	8.58	50	WG423248
Hexachloroethane	ppm	0.00668	0.00716	67.0	15-109	7.01	50	WG423248
Indeno(1,2,3-cd)pyrene	ppm	0.0121	0.0126	121.	40-143	4.14	30	WG423248
Isophorone	ppm	0.00842	0.00882	84.0	48-126	4.59	31	WG423248
n-Nitrosodi-n-propylamine	ppm	0.00799	0.00853	80.0	47-122	6.56	33	WG423248
n-Nitrosodimethylamine	ppm	0.00445	0.00419	44.0	11-69	5.87	50	WG423248
n-Nitrosodiphenylamine	ppm	0.00898	0.00971	90.0	59-143	7.80	23	WG423248
Naphthalene	ppm	0.00865	0.00913	86.0	29-103	5.41	45	WG423248
Nitrobenzene	ppm	0.00737	0.00784	74.0	31-105	6.11	43	WG423248
Pentachlorophenol	ppm	0.00671	0.00687	67.0	20-122	2.44	50	WG423248
Phenanthrene	ppm	0.00993	0.0110	99.0	54-112	9.83	22	WG423248
Phenol	ppm	0.00376	0.00382	38.0	17-52	1.39	33	WG423248
Pyrene	ppm	0.00911	0.00993	91.0	46-130	8.64	28	WG423248
2,4,6-Tribromophenol				92.57	10-148			WG423248
2-Fluorobiphenyl				89.45	26-122			WG423248
2-Fluorophenol				46.04	10-87			WG423248
Nitrobenzene-d5				75.41	12-120			WG423248
Phenol-d5				30.17	10-67			WG423248
p-Terphenyl-d14				112.9	34-149			WG423248
1,2,4-Trichlorobenzene	ppm	0.00822	0.00781	82.0	26-103	5.06	38	WG423343
2,4,6-Trichlorophenol	ppm	0.00884	0.00874	88.0	49-118	1.08	28	WG423343
2,4-Dichlorophenol	ppm	0.00832	0.00861	83.0	46-115	3.49	28	WG423343
2,4-Dimethylphenol	ppm	0.0121	0.0126	121.	40-124	4.29	36	WG423343
2,4-Dinitrophenol	ppm	0.00699	0.00561	70.0	10-125	22.0	50	WG423343

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Amy Zach
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Quality Assurance Report
Level II

L404086

June 04, 2009

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
2,4-Dinitrotoluene	ppm	0.0103	0.0104	103.	56-128	1.67	24	WG423343
2,6-Dinitrotoluene	ppm	0.00984	0.00968	98.0	56-121	1.57	23	WG423343
2-Chloronaphthalene	ppm	0.00916	0.00912	92.0	44-110	0.441	30	WG423343
2-Chlorophenol	ppm	0.00727	0.00748	73.0	38-114	2.89	36	WG423343
2-Nitrophenol	ppm	0.00842	0.00832	84.0	35-118	1.28	35	WG423343
3,3-Dichlorobenzidine	ppm	0.00934	0.00941	93.0	46-145	0.687	31	WG423343
4,6-Dinitro-2-methylphenol	ppm	0.00758	0.00680	76.0	24-119	10.9	50	WG423343
4-Bromophenyl-phenylether	ppm	0.00806	0.00897	81.0	45-105	10.7	26	WG423343
4-Chloro-3-methylphenol	ppm	0.00783	0.00810	78.0	47-116	3.30	22	WG423343
4-Chlorophenyl-phenylether	ppm	0.00969	0.0101	97.0	49-116	3.83	26	WG423343
4-Nitrophenol	ppm	0.00202	0.00216	20.0	10-66	6.32	37	WG423343
Acenaphthene	ppm	0.00971	0.00986	97.0	48-110	1.52	26	WG423343
Acenaphthylene	ppm	0.0100	0.00979	100.	48-113	2.26	28	WG423343
Anthracene	ppm	0.0108	0.0108	108.	55-127	0.185	24	WG423343
Benzidine	ppm	0.000672	0.000604	7.00	0-46	10.7	50	WG423343
Benzo(a)anthracene	ppm	0.0100	0.0105	100.	57-115	4.14	20	WG423343
Benzo(a)pyrene	ppm	0.0104	0.0110	104.	63-125	6.08	22	WG423343
Benzo(b)fluoranthene	ppm	0.00960	0.0105	96.0	50-123	8.77	32	WG423343
Benzo(g,h,i)perylene	ppm	0.0117	0.0124	117.	39-143	5.77	31	WG423343
Benzo(k)fluoranthene	ppm	0.0102	0.0106	102.	45-126	4.27	37	WG423343
Benzylbutyl phthalate	ppm	0.00572	0.00479	57.0	22-154	17.7	29	WG423343
Bis(2-chlorethoxy)methane	ppm	0.00865	0.00870	87.0	42-116	0.523	38	WG423343
Bis(2-chloroethyl)ether	ppm	0.00775	0.00786	78.0	26-115	1.33	50	WG423343
Bis(2-chloroisopropyl)ether	ppm	0.00814	0.00768	81.0	32-115	5.81	47	WG423343
Bis(2-ethylhexyl)phthalate	ppm	0.00851	0.00944	85.0	47-143	10.3	24	WG423343
Chrysene	ppm	0.0100	0.0104	100.	58-113	3.34	21	WG423343
Di-n-butyl phthalate	ppm	0.00772	0.00776	77.0	51-131	0.510	22	WG423343
Di-n-octyl phthalate	ppm	0.00916	0.00993	92.0	51-138	8.02	22	WG423343
Dibenz(a,h)anthracene	ppm	0.0118	0.0120	118.	39-144	1.89	30	WG423343
Diethyl phthalate	ppm	0.00689	0.00613	69.0	36-128	11.6	27	WG423343
Dimethyl phthalate	ppm	0.00428	0.00310	43.0	10-135	31.9	33	WG423343
Fluoranthene	ppm	0.0111	0.0118	111.	53-119	6.22	28	WG423343
Fluorene	ppm	0.0103	0.0105	103.	49-116	1.52	25	WG423343
Hexachloro-1,3-butadiene	ppm	0.00907	0.00890	91.0	21-116	1.89	50	WG423343
Hexachlorobenzene	ppm	0.00964	0.0102	96.0	51-121	5.47	23	WG423343
Hexachlorocyclopentadiene	ppm	0.00686	0.00633	69.0	4-126	8.02	50	WG423343
Hexachloroethane	ppm	0.00726	0.00680	73.0	15-109	6.59	50	WG423343
Indeno(1,2,3-cd)pyrene	ppm	0.0115	0.0119	115.	40-143	3.54	30	WG423343
Isophorone	ppm	0.00848	0.00856	85.0	48-126	0.975	31	WG423343
n-Nitrosodi-n-propylamine	ppm	0.00818	0.00802	82.0	47-122	2.03	33	WG423343
n-Nitrosodimethylamine	ppm	0.00459	0.00441	46.0	11-69	3.83	50	WG423343
n-Nitrosodiphenylamine	ppm	0.00864	0.00945	86.0	59-143	8.96	23	WG423343
Naphthalene	ppm	0.00880	0.00852	88.0	29-103	3.20	45	WG423343
Nitrobenzene	ppm	0.00763	0.00760	76.0	31-105	0.387	43	WG423343
Pentachlorophenol	ppm	0.00688	0.00663	69.0	20-122	3.68	50	WG423343
Phenanthrene	ppm	0.00991	0.0105	99.0	54-112	5.85	22	WG423343
Phenol	ppm	0.00340	0.00360	34.0	17-52	5.69	33	WG423343
Pyrene	ppm	0.00903	0.00986	90.0	46-130	8.82	28	WG423343
2,4,6-Tribromophenol				90.48	10-148			WG423343
2-Fluorobiphenyl				91.86	26-122			WG423343
2-Fluorophenol				42.28	10-87			WG423343
Nitrobenzene-d5				77.61	12-120			WG423343
Phenol-d5				26.64	10-67			WG423343
p-Terphenyl-d14				109.0	34-149			WG423343
1,2,4-Trichlorobenzene	ppm	0.205	0.195	61.0	46-99	5.08	24	WG423636
2,4,6-Trichlorophenol	ppm	0.221	0.215	67.0	56-109	2.84	20	WG423636
2,4-Dichlorophenol	ppm	0.219	0.215	66.0	54-107	1.72	21	WG423636

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Amy Zach
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Tualatin, OR 97062

Quality Assurance Report
Level II

June 04, 2009

L404086

		Laboratory Control Sample				Duplicate		
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
2,4-Dimethylphenol	ppm	0.344	0.332	103.	58-119	3.55	23	WG423636
2,4-Dinitrophenol	ppm	0.132	0.176	40.0	16-130	28.5	45	WG423636
2,4-Dinitrotoluene	ppm	0.218	0.211	65.0	53-120	3.18	23	WG423636
2,6-Dinitrotoluene	ppm	0.208	0.208	62.0	56-113	0.0866	22	WG423636
2-Chloronaphthalene	ppm	0.220	0.210	66.0	55-103	4.43	20	WG423636
2-Chlorophenol	ppm	0.200	0.199	60.0	52-108	0.315	24	WG423636
2-Nitrophenol	ppm	0.212	0.213	64.0	38-110	0.534	24	WG423636
3,3-Dichlorobenzidine	ppm	0.208	0.194	62.0	24-123	6.98	35	WG423636
4,6-Dinitro-2-methylphenol	ppm	0.211	0.243	63.0	34-111	14.3	33	WG423636
4-Bromophenyl-phenylether	ppm	0.197	0.194	59.0	47-98	1.74	23	WG423636
4-Chloro-3-methylphenol	ppm	0.214	0.211	64.0	54-116	1.09	23	WG423636
4-Chlorophenyl-phenylether	ppm	0.217	0.209	65.0	55-106	3.90	22	WG423636
4-Nitrophenol	ppm	0.190	0.219	57.0	34-123	14.3	36	WG423636
Acenaphthene	ppm	0.222	0.214	67.0	54-102	4.04	20	WG423636
Acenaphthylene	ppm	0.230	0.225	69.0	56-104	2.48	20	WG423636
Anthracene	ppm	0.246	0.232	74.0	57-112	5.93	21	WG423636
Benzidine	ppm	0.0114	0.00951	3.00	0-13	17.8	50	WG423636
Benzo(a)anthracene	ppm	0.218	0.214	65.0	55-105	1.72	21	WG423636
Benzo(a)pyrene	ppm	0.230	0.223	69.0	59-114	3.11	22	WG423636
Benzo(b)fluoranthene	ppm	0.194	0.230	58.0	44-116	16.8	33	WG423636
Benzo(g,h,i)perylene	ppm	0.278	0.269	84.0	41-127	3.47	29	WG423636
Benzo(k)fluoranthene	ppm	0.224	0.184	67.0	36-119	19.6	37	WG423636
Benzylbutyl phthalate	ppm	0.208	0.201	62.0	57-130	3.62	27	WG423636
Bis(2-chlorethoxy)methane	ppm	0.203	0.197	61.0	52-107	3.00	21	WG423636
Bis(2-chloroethyl)ether	ppm	0.209	0.187	63.0	38-115	11.1	28	WG423636
Bis(2-chloroisopropyl)ether	ppm	0.193	0.182	58.0	49-106	5.96	25	WG423636
Bis(2-ethylhexyl)phthalate	ppm	0.206	0.198	62.0	50-130	4.05	29	WG423636
Chrysene	ppm	0.215	0.215	64.0	54-103	0.0708	23	WG423636
Di-n-butyl phthalate	ppm	0.211	0.204	63.0	56-121	3.53	22	WG423636
Di-n-octyl phthalate	ppm	0.204	0.196	61.0	50-128	3.58	26	WG423636
Dibenz(a,h)anthracene	ppm	0.271	0.268	81.0	42-128	1.19	28	WG423636
Diethyl phthalate	ppm	0.212	0.206	64.0	57-110	2.86	20	WG423636
Dimethyl phthalate	ppm	0.209	0.206	63.0	57-108	1.37	20	WG423636
Fluoranthene	ppm	0.231	0.228	69.0	51-109	1.22	26	WG423636
Fluorene	ppm	0.220	0.219	66.0	53-106	0.467	20	WG423636
Hexachloro-1,3-butadiene	ppm	0.238	0.221	71.0	46-110	7.35	25	WG423636
Hexachlorobenzene	ppm	0.231	0.230	69.0	51-117	0.521	24	WG423636
Hexachlorocyclopentadiene	ppm	0.148	0.169	44.0	21-127	13.2	40	WG423636
Hexachloroethane	ppm	0.187	0.171	56.0	43-104	9.20	27	WG423636
Indeno(1,2,3-cd)pyrene	ppm	0.266	0.264	80.0	42-127	0.890	28	WG423636
Isophorone	ppm	0.191	0.184	57.0	56-116	3.54	21	WG423636
n-Nitrosodi-n-propylamine	ppm	0.189	0.189	57.0	54-113	0.0708	21	WG423636
n-Nitrosodimethylamine	ppm	0.192	0.212	58.0	35-111	9.98	35	WG423636
n-Nitrosodiphenylamine	ppm	0.205	0.199	62*	66-126	2.93	22	WG423636
Naphthalene	ppm	0.212	0.208	64.0	46-97	2.15	23	WG423636
Nitrobenzene	ppm	0.186	0.175	56.0	46-102	6.20	23	WG423636
Pentachlorophenol	ppm	0.155	0.177	47.0	37-118	13.2	28	WG423636
Phenanthrene	ppm	0.220	0.210	66.0	56-102	4.46	20	WG423636
Phenol	ppm	0.212	0.209	64.0	55-115	1.71	22	WG423636
Pyrene	ppm	0.222	0.207	67.0	53-111	6.96	26	WG423636
2,4,6-Tribromophenol				63.24	25-137			WG423636
2-Fluorobiphenyl				56.74	30-120			WG423636
2-Fluorophenol				51.66	26-130			WG423636
Nitrobenzene-d5				46.61	18-119			WG423636
Phenol-d5				51.16	37-141			WG423636
p-Terphenyl-d14				69.17	23-143			WG423636
1,2,4-Trichlorobenzene	ppm	0.00362	0.00418	36.0	26-103	14.5	38	WG423641

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Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404086

June 04, 2009

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
2,4,6-Trichlorophenol	ppm	0.00619	0.00751	62.0	49-118	19.4	28	WG423641
2,4-Dichlorophenol	ppm	0.00555	0.00690	56.0	46-115	21.6	28	WG423641
2,4-Dimethylphenol	ppm	0.00814	0.0104	81.0	40-124	24.1	36	WG423641
2,4-Dinitrophenol	ppm	0.00304	0.00451	30.0	10-125	38.9	50	WG423641
2,4-Dinitrotoluene	ppm	0.00756	0.00879	76.0	56-128	15.0	24	WG423641
2,6-Dinitrotoluene	ppm	0.00698	0.00774	70.0	56-121	10.3	23	WG423641
2-Chloronaphthalene	ppm	0.00619	0.00703	62.0	44-110	12.7	30	WG423641
2-Chlorophenol	ppm	0.00464	0.00552	46.0	38-114	17.3	36	WG423641
2-Nitrophenol	ppm	0.00589	0.00682	59.0	35-118	14.6	35	WG423641
3,3-Dichlorobenzidine	ppm	0.00801	0.00822	80.0	46-145	2.57	31	WG423641
4,6-Dinitro-2-methylphenol	ppm	0.00552	0.00697	55.0	24-119	23.2	50	WG423641
4-Bromophenyl-phenylether	ppm	0.00653	0.00688	65.0	45-105	5.21	26	WG423641
4-Chloro-3-methylphenol	ppm	0.00522	0.00669	52.0	47-116	24.7*	22	WG423641
4-Chlorophenyl-phenylether	ppm	0.00723	0.00790	72.0	49-116	8.86	26	WG423641
4-Nitrophenol	ppm	0.00188	0.00179	19.0	10-66	4.90	37	WG423641
Acenaphthene	ppm	0.00710	0.00801	71.0	48-110	12.0	26	WG423641
Acenaphthylene	ppm	0.00715	0.00804	71.0	48-113	11.8	28	WG423641
Anthracene	ppm	0.00781	0.00870	78.0	55-127	10.7	24	WG423641
Benzidine	ppm	0.000590	0.000622	6.00	0-46	5.23	50	WG423641
Benzo(a)anthracene	ppm	0.00850	0.00863	85.0	57-115	1.55	20	WG423641
Benzo(a)pyrene	ppm	0.00818	0.00903	82.0	63-125	9.87	22	WG423641
Benzo(b)fluoranthene	ppm	0.00838	0.00794	84.0	50-123	5.50	32	WG423641
Benzo(g,h,i)perylene	ppm	0.00980	0.0106	98.0	39-143	8.07	31	WG423641
Benzo(k)fluoranthene	ppm	0.00687	0.00856	69.0	45-126	21.9	37	WG423641
Benzylbutyl phthalate	ppm	0.00399	0.00378	40.0	22-154	5.50	29	WG423641
Bis(2-chlorethoxy)methane	ppm	0.00512	0.00596	51.0	42-116	15.0	38	WG423641
Bis(2-chloroethyl)ether	ppm	0.00366	0.00375	37.0	26-115	2.64	50	WG423641
Bis(2-chloroisopropyl)ether	ppm	0.00353	0.00402	35.0	32-115	12.9	47	WG423641
Bis(2-ethylhexyl)phthalate	ppm	0.00857	0.00736	86.0	47-143	15.1	24	WG423641
Chrysene	ppm	0.00731	0.00802	73.0	58-113	9.37	21	WG423641
Di-n-butyl phthalate	ppm	0.00626	0.00662	63.0	51-131	5.59	22	WG423641
Di-n-octyl phthalate	ppm	0.00792	0.00740	79.0	51-138	6.87	22	WG423641
Dibenz(a,h)anthracene	ppm	0.00948	0.0106	95.0	39-144	11.2	30	WG423641
Diethyl phthalate	ppm	0.00482	0.00545	48.0	36-128	12.2	27	WG423641
Dimethyl phthalate	ppm	0.00190	0.00222	19.0	10-135	15.6	33	WG423641
Fluoranthene	ppm	0.00789	0.00861	79.0	53-119	8.76	28	WG423641
Fluorene	ppm	0.00747	0.00833	75.0	49-116	10.8	25	WG423641
Hexachloro-1,3-butadiene	ppm	0.00397	0.00435	40.0	21-116	9.22	50	WG423641
Hexachlorobenzene	ppm	0.00780	0.00812	78.0	51-121	3.93	23	WG423641
Hexachlorocyclopentadiene	ppm	0.00303	0.00414	30.0	4-126	31.1	50	WG423641
Hexachloroethane	ppm	0.00224	0.00237	22.0	15-109	5.66	50	WG423641
Indeno(1,2,3-cd)pyrene	ppm	0.00956	0.0104	96.0	40-143	8.53	30	WG423641
Isophorone	ppm	0.00531	0.00596	53.0	48-126	11.7	31	WG423641
n-Nitrosodi-n-propylamine	ppm	0.00474	0.00556	47.0	47-122	15.9	33	WG423641
n-Nitrosodimethylamine	ppm	0.00206	0.00226	21.0	11-69	9.12	50	WG423641
n-Nitrosodiphenylamine	ppm	0.00694	0.00721	69.0	59-143	3.88	23	WG423641
Naphthalene	ppm	0.00436	0.00492	44.0	29-103	12.1	45	WG423641
Nitrobenzene	ppm	0.00384	0.00420	38.0	31-105	8.85	43	WG423641
Pentachlorophenol	ppm	0.00435	0.00467	43.0	20-122	7.10	50	WG423641
Phenanthrene	ppm	0.00750	0.00788	75.0	54-112	4.89	22	WG423641
Phenol	ppm	0.00216	0.00253	22.0	17-52	15.8	33	WG423641
Pyrene	ppm	0.00811	0.00753	81.0	46-130	7.32	28	WG423641
2,4,6-Tribromophenol				74.94	10-148			WG423641
2-Fluorobiphenyl				64.37	26-122			WG423641
2-Fluorophenol				27.09	10-87			WG423641
Nitrobenzene-d5				38.95	12-120			WG423641
Phenol-d5				17.43	10-67			WG423641
p-Terphenyl-d14				101.3	34-149			WG423641

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12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

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L404086

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Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0452	0.00	.05	90.4	45-152	L403911-01	WG423255
1,1,1-Trichloroethane	mg/l	0.0420	0.00	.05	84.1	31-161	L403911-01	WG423255
1,1,2,2-Tetrachloroethane	mg/l	0.0448	0.00	.05	89.6	49-149	L403911-01	WG423255
1,1,2-Trichloroethane	mg/l	0.0408	0.00	.05	81.7	46-145	L403911-01	WG423255
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0326	0.00	.05	65.2	14-168	L403911-01	WG423255
1,1-Dichloroethane	mg/l	0.0410	0.00	.05	82.1	30-159	L403911-01	WG423255
1,1-Dichloroethene	mg/l	0.0374	0.00	.05	74.7	10-162	L403911-01	WG423255
1,1-Dichloropropene	mg/l	0.0406	0.00	.05	81.2	14-162	L403911-01	WG423255
1,2,3-Trichlorobenzene	mg/l	0.0468	0.00	.05	93.5	32-143	L403911-01	WG423255
1,2,3-Trichloropropane	mg/l	0.0447	0.00	.05	89.4	48-148	L403911-01	WG423255
1,2,3-Trimethylbenzene	mg/l	0.0438	0.00	.05	87.6	36-141	L403911-01	WG423255
1,2,4-Trichlorobenzene	mg/l	0.0464	0.00	.05	92.8	27-142	L403911-01	WG423255
1,2,4-Trimethylbenzene	mg/l	0.0477	0.00	.05	95.4	29-153	L403911-01	WG423255
1,2-Dibromo-3-Chloropropane	mg/l	0.0475	0.00	.05	94.9	37-148	L403911-01	WG423255
1,2-Dibromoethane	mg/l	0.0422	0.00	.05	84.4	41-149	L403911-01	WG423255
1,2-Dichlorobenzene	mg/l	0.0429	0.00	.05	85.8	40-139	L403911-01	WG423255
1,2-Dichloroethane	mg/l	0.0401	0.00	.05	80.1	29-167	L403911-01	WG423255
1,2-Dichloropropane	mg/l	0.0401	0.00	.05	80.2	39-148	L403911-01	WG423255
1,3,5-Trimethylbenzene	mg/l	0.0473	0.00	.05	94.6	33-149	L403911-01	WG423255
1,3-Dichlorobenzene	mg/l	0.0442	0.00	.05	88.4	32-148	L403911-01	WG423255
1,3-Dichloropropane	mg/l	0.0404	0.00	.05	80.8	44-142	L403911-01	WG423255
1,4-Dichlorobenzene	mg/l	0.0428	0.00	.05	85.6	32-136	L403911-01	WG423255
2,2-Dichloropropane	mg/l	0.0436	0.00	.05	87.1	14-158	L403911-01	WG423255
2-Butanone (MEK)	mg/l	0.192	0.00	.25	76.7	32-151	L403911-01	WG423255
2-Chloroethyl vinyl ether	mg/l	0.0264	0.00	.25	10.6	0-175	L403911-01	WG423255
2-Chlorotoluene	mg/l	0.0445	0.00	.05	88.9	35-147	L403911-01	WG423255
4-Chlorotoluene	mg/l	0.0450	0.00	.05	90.0	33-147	L403911-01	WG423255
4-Methyl-2-pentanone (MIBK)	mg/l	0.225	0.00	.25	90.1	40-160	L403911-01	WG423255
Acetone	mg/l	0.197	0.00	.25	78.8	25-157	L403911-01	WG423255
Acrolein	mg/l	0.112	0.00	.25	44.7	0-179	L403911-01	WG423255
Acrylonitrile	mg/l	0.215	0.00	.25	86.0	37-162	L403911-01	WG423255
Benzene	mg/l	0.0512	0.0120	.05	78.5	16-158	L403911-01	WG423255
Bromobenzene	mg/l	0.0416	0.00	.05	83.2	37-147	L403911-01	WG423255
Bromodichloromethane	mg/l	0.0430	0.00	.05	85.9	45-147	L403911-01	WG423255
Bromoform	mg/l	0.0468	0.00	.05	93.5	38-152	L403911-01	WG423255
Bromomethane	mg/l	0.0352	0.00	.05	70.5	0-191	L403911-01	WG423255
Carbon tetrachloride	mg/l	0.0410	0.00	.05	81.9	22-168	L403911-01	WG423255
Chlorobenzene	mg/l	0.0438	0.00	.05	87.6	33-148	L403911-01	WG423255
Chlorodibromomethane	mg/l	0.0452	0.00	.05	90.4	48-151	L403911-01	WG423255
Chloroethane	mg/l	0.0348	0.00	.05	69.6	4-176	L403911-01	WG423255
Chloroform	mg/l	0.0392	0.00	.05	78.3	37-147	L403911-01	WG423255
Chloromethane	mg/l	0.0350	0.00	.05	70.0	10-174	L403911-01	WG423255
cis-1,2-Dichloroethene	mg/l	0.0407	0.00	.05	81.5	29-156	L403911-01	WG423255
cis-1,3-Dichloropropene	mg/l	0.0431	0.00	.05	86.2	35-148	L403911-01	WG423255
Di-isopropyl ether	mg/l	0.0547	0.0120	.05	85.4	39-160	L403911-01	WG423255
Dibromomethane	mg/l	0.0391	0.00	.05	78.3	36-152	L403911-01	WG423255
Dichlorodifluoromethane	mg/l	0.0340	0.00	.05	68.0	0-200	L403911-01	WG423255
Ethylbenzene	mg/l	0.0449	0.00130	.05	87.1	29-150	L403911-01	WG423255
Hexachloro-1,3-Butadiene	mg/l	0.0447	0.00	.05	89.4	28-144	L403911-01	WG423255
Isopropylbenzene	mg/l	0.0458	0.00	.05	91.7	35-147	L403911-01	WG423255
Methyl tert-butyl ether	mg/l	0.199	0.170	.05	58.7	24-167	L403911-01	WG423255
Methylene Chloride	mg/l	0.0391	0.00	.05	78.2	23-151	L403911-01	WG423255
n-Butylbenzene	mg/l	0.0466	0.00	.05	93.3	22-151	L403911-01	WG423255
n-Propylbenzene	mg/l	0.0456	0.00	.05	91.1	26-150	L403911-01	WG423255
Naphthalene	mg/l	0.0503	0.00	.05	101.	24-160	L403911-01	WG423255
p-Isopropyltoluene	mg/l	0.0482	0.00	.05	96.4	28-151	L403911-01	WG423255
sec-Butylbenzene	mg/l	0.0480	0.00	.05	95.9	32-149	L403911-01	WG423255
Styrene	mg/l	0.0480	0.00	.05	95.9	38-149	L403911-01	WG423255
tert-Butylbenzene	mg/l	0.0462	0.00	.05	92.4	36-149	L403911-01	WG423255
Tetrachloroethene	mg/l	0.0393	0.00	.05	78.6	13-157	L403911-01	WG423255

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Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Toluene	mg/l	0.0406	0.00	.05	81.1	22-152	L403911-01	WG423255
trans-1,2-Dichloroethene	mg/l	0.0390	0.00	.05	78.0	11-160	L403911-01	WG423255
trans-1,3-Dichloropropene	mg/l	0.0440	0.00	.05	88.0	33-153	L403911-01	WG423255
Trichloroethene	mg/l	0.0412	0.00	.05	82.3	18-163	L403911-01	WG423255
Trichlorofluoromethane	mg/l	0.0368	0.00	.05	73.6	10-177	L403911-01	WG423255
Vinyl chloride	mg/l	0.0378	0.00	.05	75.5	0-179	L403911-01	WG423255
4-Bromofluorobenzene					99.15	75-128		WG423255
Dibromofluoromethane					97.45	79-125		WG423255
Toluene-d8					97.58	87-114		WG423255
1,1,1,2-Tetrachloroethane	mg/l	0.0444	0.00	.05	88.8	45-152	L404133-21	WG423281
1,1,1-Trichloroethane	mg/l	0.0445	0.00	.05	89.0	31-161	L404133-21	WG423281
1,1,2,2-Tetrachloroethane	mg/l	0.0450	0.00	.05	89.9	49-149	L404133-21	WG423281
1,1,2-Trichloroethane	mg/l	0.0426	0.00	.05	85.1	46-145	L404133-21	WG423281
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0338	0.00	.05	67.6	14-168	L404133-21	WG423281
1,1-Dichloroethane	mg/l	0.0462	0.00	.05	92.4	30-159	L404133-21	WG423281
1,1-Dichloroethene	mg/l	0.0351	0.00	.05	70.3	10-162	L404133-21	WG423281
1,1-Dichloropropene	mg/l	0.0438	0.00	.05	87.5	14-162	L404133-21	WG423281
1,2,3-Trichlorobenzene	mg/l	0.0455	0.00	.05	91.1	32-143	L404133-21	WG423281
1,2,3-Trichloropropane	mg/l	0.0470	0.00	.05	94.0	48-148	L404133-21	WG423281
1,2,3-Trimethylbenzene	mg/l	0.0404	0.00	.05	80.8	36-141	L404133-21	WG423281
1,2,4-Trichlorobenzene	mg/l	0.0484	0.00	.05	96.9	27-142	L404133-21	WG423281
1,2,4-Trimethylbenzene	mg/l	0.0430	0.00	.05	86.0	29-153	L404133-21	WG423281
1,2-Dibromo-3-Chloropropane	mg/l	0.0437	0.00	.05	87.4	37-148	L404133-21	WG423281
1,2-Dibromoethane	mg/l	0.0448	0.00	.05	89.5	41-149	L404133-21	WG423281
1,2-Dichlorobenzene	mg/l	0.0439	0.00	.05	87.7	40-139	L404133-21	WG423281
1,2-Dichloroethane	mg/l	0.0489	0.00	.05	97.9	29-167	L404133-21	WG423281
1,2-Dichloropropane	mg/l	0.0457	0.00	.05	91.4	39-148	L404133-21	WG423281
1,3,5-Trimethylbenzene	mg/l	0.0436	0.00	.05	87.2	33-149	L404133-21	WG423281
1,3-Dichlorobenzene	mg/l	0.0451	0.00	.05	90.3	32-148	L404133-21	WG423281
1,3-Dichloropropane	mg/l	0.0457	0.00	.05	91.4	44-142	L404133-21	WG423281
1,4-Dichlorobenzene	mg/l	0.0428	0.00	.05	85.7	32-136	L404133-21	WG423281
2,2-Dichloropropane	mg/l	0.0459	0.00	.05	91.8	14-158	L404133-21	WG423281
2-Butanone (MEK)	mg/l	0.215	0.00	.25	86.2	32-151	L404133-21	WG423281
2-Chloroethyl vinyl ether	mg/l	0.0117	0.00	.25	4.69	0-175	L404133-21	WG423281
2-Chlorotoluene	mg/l	0.0444	0.00	.05	88.8	35-147	L404133-21	WG423281
4-Chlorotoluene	mg/l	0.0432	0.00	.05	86.5	33-147	L404133-21	WG423281
4-Methyl-2-pentanone (MIBK)	mg/l	0.233	0.00	.25	93.3	40-160	L404133-21	WG423281
Acetone	mg/l	0.235	0.00	.25	93.9	25-157	L404133-21	WG423281
Acrolein	mg/l	0.163	0.00	.25	65.0	0-179	L404133-21	WG423281
Acrylonitrile	mg/l	0.239	0.00	.25	95.7	37-162	L404133-21	WG423281
Benzene	mg/l	0.0429	0.00	.05	85.8	16-158	L404133-21	WG423281
Bromobenzene	mg/l	0.0424	0.00	.05	84.8	37-147	L404133-21	WG423281
Bromodichloromethane	mg/l	0.0419	0.00	.05	83.8	45-147	L404133-21	WG423281
Bromoform	mg/l	0.0428	0.00	.05	85.6	38-152	L404133-21	WG423281
Bromomethane	mg/l	0.0304	0.00	.05	60.7	0-191	L404133-21	WG423281
Carbon tetrachloride	mg/l	0.0454	0.00	.05	90.8	22-168	L404133-21	WG423281
Chlorobenzene	mg/l	0.0413	0.00	.05	82.7	33-148	L404133-21	WG423281
Chlorodibromomethane	mg/l	0.0414	0.00	.05	82.9	48-151	L404133-21	WG423281
Chloroethane	mg/l	0.0366	0.00	.05	73.1	4-176	L404133-21	WG423281
Chloroform	mg/l	0.0486	0.00	.05	97.1	37-147	L404133-21	WG423281
Chloromethane	mg/l	0.0345	0.00	.05	69.0	10-174	L404133-21	WG423281
cis-1,2-Dichloroethene	mg/l	0.0425	0.00	.05	84.9	29-156	L404133-21	WG423281
cis-1,3-Dichloropropene	mg/l	0.0457	0.00	.05	91.5	35-148	L404133-21	WG423281
Di-isopropyl ether	mg/l	0.0460	0.00	.05	92.0	39-160	L404133-21	WG423281
Dibromomethane	mg/l	0.0427	0.00	.05	85.4	36-152	L404133-21	WG423281
Dichlorodifluoromethane	mg/l	0.0299	0.00	.05	59.8	0-200	L404133-21	WG423281
Ethylbenzene	mg/l	0.0421	0.00	.05	84.3	29-150	L404133-21	WG423281

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Quality Assurance Report
Level II

L404086

June 04, 2009

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Hexachloro-1,3-Butadiene	mg/l	0.0474	0.00	.05	94.9	28-144	L404133-21	WG423281
Isopropylbenzene	mg/l	0.0420	0.00	.05	84.0	35-147	L404133-21	WG423281
Methyl tert-butyl ether	mg/l	0.0432	0.00	.05	86.4	24-167	L404133-21	WG423281
Methylene Chloride	mg/l	0.0392	0.00	.05	78.4	23-151	L404133-21	WG423281
n-Butylbenzene	mg/l	0.0431	0.00	.05	86.2	22-151	L404133-21	WG423281
n-Propylbenzene	mg/l	0.0425	0.00	.05	85.1	26-150	L404133-21	WG423281
Naphthalene	mg/l	0.0506	0.00	.05	101.	24-160	L404133-21	WG423281
p-Isopropyltoluene	mg/l	0.0427	0.00	.05	85.4	28-151	L404133-21	WG423281
sec-Butylbenzene	mg/l	0.0435	0.00	.05	87.0	32-149	L404133-21	WG423281
Styrene	mg/l	0.0433	0.00	.05	86.6	38-149	L404133-21	WG423281
tert-Butylbenzene	mg/l	0.0423	0.00	.05	84.5	36-149	L404133-21	WG423281
Tetrachloroethene	mg/l	0.0375	0.00	.05	75.0	13-157	L404133-21	WG423281
Toluene	mg/l	0.0410	0.00	.05	82.1	22-152	L404133-21	WG423281
trans-1,2-Dichloroethene	mg/l	0.0378	0.00	.05	75.6	11-160	L404133-21	WG423281
trans-1,3-Dichloropropene	mg/l	0.0462	0.00	.05	92.4	33-153	L404133-21	WG423281
Trichloroethene	mg/l	0.0401	0.00	.05	80.2	18-163	L404133-21	WG423281
Trichlorofluoromethane	mg/l	0.0369	0.00	.05	73.8	10-177	L404133-21	WG423281
Vinyl chloride	mg/l	0.0369	0.00	.05	73.7	0-179	L404133-21	WG423281
4-Bromofluorobenzene					98.87	75-128		WG423281
Dibromofluoromethane					100.8	79-125		WG423281
Toluene-d8					102.3	87-114		WG423281
Mercury	mg/l	0.00311	0.00	.003	104.	70-130	L404165-03	WG423232
1,1,1,2-Tetrachloroethane	mg/kg	0.207	0.00	.05	82.9	29-145	L403858-01	WG423335
1,1,1-Trichloroethane	mg/kg	0.240	0.00	.05	96.1	23-147	L403858-01	WG423335
1,1,2,2-Tetrachloroethane	mg/kg	0.199	0.00	.05	79.5	18-150	L403858-01	WG423335
1,1,2-Trichloroethane	mg/kg	0.198	0.00	.05	79.1	35-140	L403858-01	WG423335
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.217	0.00	.05	86.8	10-145	L403858-01	WG423335
1,1-Dichloroethane	mg/kg	0.258	0.00	.05	103.	24-148	L403858-01	WG423335
1,1-Dichloroethene	mg/kg	0.216	0.00	.05	86.5	10-149	L403858-01	WG423335
1,1-Dichloropropene	mg/kg	0.254	0.00	.05	102.	10-141	L403858-01	WG423335
1,2,3-Trichlorobenzene	mg/kg	0.166	0.00	.05	66.3	10-129	L403858-01	WG423335
1,2,3-Trichloropropane	mg/kg	0.213	0.00	.05	85.1	30-148	L403858-01	WG423335
1,2,4-Trichlorobenzene	mg/kg	0.182	0.00	.05	72.7	10-119	L403858-01	WG423335
1,2,4-Trimethylbenzene	mg/kg	0.197	0.00	.05	78.9	10-145	L403858-01	WG423335
1,2-Dibromo-3-Chloropropane	mg/kg	0.206	0.00	.05	82.4	19-145	L403858-01	WG423335
1,2-Dibromoethane	mg/kg	0.218	0.00	.05	87.2	24-145	L403858-01	WG423335
1,2-Dichlorobenzene	mg/kg	0.202	0.00	.05	80.7	12-130	L403858-01	WG423335
1,2-Dichloroethane	mg/kg	0.265	0.00	.05	106.	21-155	L403858-01	WG423335
1,2-Dichloropropane	mg/kg	0.234	0.00	.05	93.4	28-144	L403858-01	WG423335
1,3,5-Trimethylbenzene	mg/kg	0.198	0.00	.05	79.2	10-135	L403858-01	WG423335
1,3-Dichlorobenzene	mg/kg	0.195	0.00	.05	78.0	10-129	L403858-01	WG423335
1,3-Dichloropropane	mg/kg	0.217	0.00	.05	86.7	31-137	L403858-01	WG423335
1,4-Dichlorobenzene	mg/kg	0.203	0.00	.05	81.0	10-121	L403858-01	WG423335
2,2-Dichloropropane	mg/kg	0.244	0.00	.05	97.6	18-144	L403858-01	WG423335
2-Butanone (MEK)	mg/kg	1.14	0.00	.25	91.3	21-143	L403858-01	WG423335
2-Chloroethyl vinyl ether	mg/kg	0.835	0.00	.25	66.8	0-176	L403858-01	WG423335
2-Chlorotoluene	mg/kg	0.203	0.00	.05	81.3	10-132	L403858-01	WG423335
4-Chlorotoluene	mg/kg	0.196	0.00	.05	78.2	10-129	L403858-01	WG423335
4-Methyl-2-pentanone (MIBK)	mg/kg	1.13	0.00	.25	90.2	31-151	L403858-01	WG423335
Acetone	mg/kg	1.20	0.00	.25	96.0	13-158	L403858-01	WG423335
Acrylonitrile	mg/kg	1.21	0.00	.25	96.7	20-154	L403858-01	WG423335
Benzene	mg/kg	0.241	0.00	.05	96.5	16-143	L403858-01	WG423335
Bromobenzene	mg/kg	0.197	0.00	.05	78.9	14-135	L403858-01	WG423335
Bromodichloromethane	mg/kg	0.209	0.00	.05	83.5	27-139	L403858-01	WG423335
Bromoform	mg/kg	0.193	0.00	.05	77.3	21-144	L403858-01	WG423335

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12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

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June 04, 2009

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Bromomethane	mg/kg	0.215	0.00	.05	86.1	0-180	L403858-01	WG423335
Carbon tetrachloride	mg/kg	0.247	0.00	.05	99.0	12-149	L403858-01	WG423335
Chlorobenzene	mg/kg	0.200	0.00	.05	80.2	17-134	L403858-01	WG423335
Chlorodibromomethane	mg/kg	0.193	0.00	.05	77.0	28-147	L403858-01	WG423335
Chloroethane	mg/kg	0.235	0.00	.05	93.8	0-172	L403858-01	WG423335
Chloroform	mg/kg	0.254	0.00	.05	101.	28-138	L403858-01	WG423335
Chloromethane	mg/kg	0.249	0.00	.05	99.4	10-158	L403858-01	WG423335
cis-1,2-Dichloroethene	mg/kg	0.237	0.00	.05	94.6	21-147	L403858-01	WG423335
cis-1,3-Dichloropropene	mg/kg	0.238	0.00	.05	95.4	17-145	L403858-01	WG423335
Di-isopropyl ether	mg/kg	0.242	0.00	.05	96.9	31-153	L403858-01	WG423335
Dibromomethane	mg/kg	0.230	0.00	.05	92.0	24-147	L403858-01	WG423335
Dichlorodifluoromethane	mg/kg	0.226	0.00	.05	90.2	0-192	L403858-01	WG423335
Ethylbenzene	mg/kg	0.206	0.00	.05	82.3	12-137	L403858-01	WG423335
Hexachloro-1,3-Butadiene	mg/kg	0.183	0.00	.05	73.3	10-123	L403858-01	WG423335
Isopropylbenzene	mg/kg	0.201	0.00	.05	80.6	14-134	L403858-01	WG423335
Methyl tert-butyl ether	mg/kg	0.223	0.00	.05	89.2	21-157	L403858-01	WG423335
Methylene Chloride	mg/kg	0.224	0.00	.05	89.5	12-149	L403858-01	WG423335
n-Butylbenzene	mg/kg	0.195	0.00	.05	77.8	10-130	L403858-01	WG423335
n-Propylbenzene	mg/kg	0.200	0.00	.05	80.0	10-130	L403858-01	WG423335
Naphthalene	mg/kg	0.203	0.00	.05	81.2	0-146	L403858-01	WG423335
p-Isopropyltoluene	mg/kg	0.186	0.00	.05	74.5	10-131	L403858-01	WG423335
sec-Butylbenzene	mg/kg	0.193	0.00	.05	77.3	10-134	L403858-01	WG423335
Styrene	mg/kg	0.203	0.00	.05	81.1	10-140	L403858-01	WG423335
tert-Butylbenzene	mg/kg	0.195	0.00	.05	78.1	11-137	L403858-01	WG423335
Tetrachloroethene	mg/kg	0.198	0.00	.05	79.2	10-131	L403858-01	WG423335
Toluene	mg/kg	0.225	0.00	.05	90.0	12-136	L403858-01	WG423335
trans-1,2-Dichloroethene	mg/kg	0.238	0.00	.05	95.4	10-143	L403858-01	WG423335
trans-1,3-Dichloropropene	mg/kg	0.233	0.00	.05	93.2	16-147	L403858-01	WG423335
Trichloroethene	mg/kg	0.221	0.00	.05	88.3	10-155	L403858-01	WG423335
Trichlorofluoromethane	mg/kg	0.226	0.00	.05	90.3	10-154	L403858-01	WG423335
Vinyl chloride	mg/kg	0.264	0.00	.05	106.	10-159	L403858-01	WG423335
4-Bromofluorobenzene					92.53	59-140		WG423335
Dibromofluoromethane					101.7	63-139		WG423335
Toluene-d8					101.5	84-116		WG423335
Mercury	mg/kg	0.249	0.0260	.25	89.2	70-130	L404086-06	WG423237
Mercury	mg/kg	0.250	0.00	.25	100.	70-130	L404149-01	WG423236
1,2,4-Trichlorobenzene	ppm	0.235	0.00	.333	70.4	37-104	L404086-01	WG423636
2,4,6-Trichlorophenol	ppm	0.281	0.00	.333	84.3	27-128	L404086-01	WG423636
2,4-Dichlorophenol	ppm	0.261	0.00	.333	78.4	39-116	L404086-01	WG423636
2,4-Dimethylphenol	ppm	0.404	0.00	.333	121.*	50-119	L404086-01	WG423636
2,4-Dinitrophenol	ppm	0.247	0.00	.333	74.2	10-123	L404086-01	WG423636
2,4-Dinitrotoluene	ppm	0.284	0.00	.333	85.2	52-121	L404086-01	WG423636
2,6-Dinitrotoluene	ppm	0.263	0.00	.333	78.9	53-114	L404086-01	WG423636
2-Chloronaphthalene	ppm	0.254	0.00	.333	76.3	52-101	L404086-01	WG423636
2-Chlorophenol	ppm	0.227	0.00	.333	68.1	41-112	L404086-01	WG423636
2-Nitrophenol	ppm	0.276	0.00	.333	82.9	23-117	L404086-01	WG423636
3,3-Dichlorobenzidine	ppm	0.219	0.00	.333	65.7	10-133	L404086-01	WG423636
4,6-Dinitro-2-methylphenol	ppm	0.293	0.00	.333	87.9	10-124	L404086-01	WG423636
4-Bromophenyl-phenylether	ppm	0.238	0.00	.333	71.3	37-103	L404086-01	WG423636
4-Chloro-3-methylphenol	ppm	0.261	0.00	.333	78.5	52-119	L404086-01	WG423636
4-Chlorophenyl-phenylether	ppm	0.269	0.00	.333	80.8	53-105	L404086-01	WG423636
4-Nitrophenol	ppm	0.259	0.00	.333	77.7	15-140	L404086-01	WG423636
Acenaphthene	ppm	0.274	0.00	.333	82.4	52-102	L404086-01	WG423636

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SCIENCE CORP.

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Mt. Juliet, TN 37122
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1-800-767-5859
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Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
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Quality Assurance Report
Level II

L404086

June 04, 2009

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Acenaphthylene	ppm	0.287	0.00	.333	86.1	54-103	L404086-01	WG423636
Anthracene	ppm	0.295	0.00	.333	88.6	55-114	L404086-01	WG423636
Benzidine	ppm	0.00139	0.00	.333	0.419	0-45	L404086-01	WG423636
Benzo(a)anthracene	ppm	0.265	0.00	.333	79.5	37-124	L404086-01	WG423636
Benzo(a)pyrene	ppm	0.281	0.00	.333	84.4	44-129	L404086-01	WG423636
Benzo(b)fluoranthene	ppm	0.259	0.00	.333	77.9	28-135	L404086-01	WG423636
Benzo(g,h,i)perylene	ppm	0.340	0.00	.333	102.	25-123	L404086-01	WG423636
Benzo(k)fluoranthene	ppm	0.274	0.00	.333	82.3	41-116	L404086-01	WG423636
Benzylbutyl phthalate	ppm	0.237	0.00	.333	71.2	45-143	L404086-01	WG423636
Bis(2-chlorethoxy)methane	ppm	0.225	0.00	.333	67.5	48-108	L404086-01	WG423636
Bis(2-chloroethyl)ether	ppm	0.223	0.00	.333	67.0	36-115	L404086-01	WG423636
Bis(2-chloroisopropyl)ether	ppm	0.212	0.00	.333	63.7	44-109	L404086-01	WG423636
Bis(2-ethylhexyl)phthalate	ppm	0.287	0.00	.333	86.0	40-128	L404086-01	WG423636
Chrysene	ppm	0.262	0.00	.333	78.6	39-119	L404086-01	WG423636
Di-n-butyl phthalate	ppm	0.256	0.00	.333	77.0	49-121	L404086-01	WG423636
Di-n-octyl phthalate	ppm	0.241	0.00	.333	72.5	40-132	L404086-01	WG423636
Dibenz(a,h)anthracene	ppm	0.342	0.00	.333	103.	29-123	L404086-01	WG423636
Diethyl phthalate	ppm	0.261	0.00	.333	78.3	51-113	L404086-01	WG423636
Dimethyl phthalate	ppm	0.312	0.00	.333	93.8	54-108	L404086-01	WG423636
Fluoranthene	ppm	0.304	0.00	.333	91.2	23-143	L404086-01	WG423636
Fluorene	ppm	0.289	0.00	.333	86.8	53-107	L404086-01	WG423636
Hexachloro-1,3-butadiene	ppm	0.256	0.00	.333	77.0	39-113	L404086-01	WG423636
Hexachlorobenzene	ppm	0.277	0.00	.333	83.1	49-108	L404086-01	WG423636
Hexachlorocyclopentadiene	ppm	0.167	0.00	.333	50.3	10-131	L404086-01	WG423636
Hexachloroethane	ppm	0.203	0.00	.333	61.0	25-118	L404086-01	WG423636
Indeno(1,2,3-cd)pyrene	ppm	0.338	0.00	.333	102.	28-125	L404086-01	WG423636
Isophorone	ppm	0.215	0.00	.333	64.5	51-115	L404086-01	WG423636
n-Nitrosodi-n-propylamine	ppm	0.224	0.00	.333	67.4	54-110	L404086-01	WG423636
n-Nitrosodimethylamine	ppm	0.236	0.00	.333	70.8	20-116	L404086-01	WG423636
n-Nitrosodiphenylamine	ppm	0.249	0.00	.333	74.8	54-138	L404086-01	WG423636
Naphthalene	ppm	0.239	0.00	.333	71.9	41-100	L404086-01	WG423636
Nitrobenzene	ppm	0.211	0.00	.333	63.4	40-102	L404086-01	WG423636
Pentachlorophenol	ppm	0.251	0.00	.333	75.4	10-146	L404086-01	WG423636
Phenanthrene	ppm	0.274	0.00	.333	82.4	37-125	L404086-01	WG423636
Phenol	ppm	0.243	0.00	.333	73.0	52-111	L404086-01	WG423636
Pyrene	ppm	0.245	0.00	.333	73.6	22-151	L404086-01	WG423636
2,4,6-Tribromophenol					88.82	25-137		WG423636
2-Fluorobiphenyl					70.23	30-120		WG423636
2-Fluorophenol					59.97	26-130		WG423636
Nitrobenzene-d5					52.58	18-119		WG423636
Phenol-d5					61.99	37-141		WG423636
p-Terphenyl-d14					80.99	23-143		WG423636
1,2,4-Trichlorobenzene	ppm	0.00546	0.00	.01	54.6	18-105	L404219-04	WG423641
2,4,6-Trichlorophenol	ppm	0.00729	0.00	.01	72.9	10-137	L404219-04	WG423641
2,4-Dichlorophenol	ppm	0.00708	0.00	.01	70.8	10-133	L404219-04	WG423641
2,4-Dimethylphenol	ppm	0.00782	0.00	.01	78.2	10-142	L404219-04	WG423641
2,4-Dinitrophenol	ppm	0.00601	0.00	.01	60.1	10-150	L404219-04	WG423641
2,4-Dinitrotoluene	ppm	0.00835	0.00	.01	83.5	32-137	L404219-04	WG423641
2,6-Dinitrotoluene	ppm	0.00787	0.00	.01	78.7	35-123	L404219-04	WG423641
2-Chloronaphthalene	ppm	0.00718	0.00	.01	71.8	33-109	L404219-04	WG423641
2-Chlorophenol	ppm	0.00591	0.00	.01	59.1	10-155	L404219-04	WG423641
2-Nitrophenol	ppm	0.00747	0.00	.01	74.7	12-121	L404219-04	WG423641
3,3-Dichlorobenzidine	ppm	0.00071	0.00	.01	7.11*	10-135	L404219-04	WG423641
4,6-Dinitro-2-methylphenol	ppm	0.00744	0.00	.01	74.4	0-138	L404219-04	WG423641
4-Bromophenyl-phenylether	ppm	0.00590	0.00	.01	59.0	35-102	L404219-04	WG423641
4-Chloro-3-methylphenol	ppm	0.00621	0.00	.01	62.1	10-136	L404219-04	WG423641
4-Chlorophenyl-phenylether	ppm	0.00737	0.00	.01	73.7	39-116	L404219-04	WG423641

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Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
4-Nitrophenol	ppm	0.00231	0.00	.01	23.1	13-59	L404219-04	WG423641
Acenaphthene	ppm	0.00750	0.00	.01	75.0	39-112	L404219-04	WG423641
Acenaphthylene	ppm	0.00808	0.00	.01	80.8	37-114	L404219-04	WG423641
Anthracene	ppm	0.00807	0.00	.01	80.7	44-136	L404219-04	WG423641
Benzidine	ppm	0.00019	0.00	.01	1.94	0-25	L404219-04	WG423641
Benzo(a)anthracene	ppm	0.00759	0.00	.01	75.9	43-117	L404219-04	WG423641
Benzo(a)pyrene	ppm	0.00767	0.00	.01	76.7	33-137	L404219-04	WG423641
Benzo(b)fluoranthene	ppm	0.00815	0.00	.01	81.5	35-128	L404219-04	WG423641
Benzo(g,h,i)perylene	ppm	0.00599	0.00	.01	59.9	10-139	L404219-04	WG423641
Benzo(k)fluoranthene	ppm	0.00666	0.00	.01	66.6	36-119	L404219-04	WG423641
Benzylbutyl phthalate	ppm	0.00343	0.00	.01	34.3*	47-121	L404219-04	WG423641
Bis(2-chlorethoxy)methane	ppm	0.00621	0.00	.01	62.1	21-135	L404219-04	WG423641
Bis(2-chloroethyl)ether	ppm	0.00488	0.00	.01	48.8	10-134	L404219-04	WG423641
Bis(2-chloroisopropyl)ether	ppm	0.00498	0.00	.01	49.8	14-124	L404219-04	WG423641
Bis(2-ethylhexyl)phthalate	ppm	0.00676	0.00	.01	67.6	10-115	L404219-04	WG423641
Chrysene	ppm	0.00774	0.00	.01	77.4	41-117	L404219-04	WG423641
Di-n-butyl phthalate	ppm	0.00609	0.00	.01	60.9	46-121	L404219-04	WG423641
Di-n-octyl phthalate	ppm	0.00667	0.00	.01	66.7	22-109	L404219-04	WG423641
Dibenz(a,h)anthracene	ppm	0.00592	0.00	.01	59.2	10-145	L404219-04	WG423641
Diethyl phthalate	ppm	0.00487	0.00	.01	48.7	23-132	L404219-04	WG423641
Dimethyl phthalate	ppm	0.00188	0.00	.01	18.8*	42-107	L404219-04	WG423641
Fluoranthene	ppm	0.00811	0.00	.01	81.1	36-130	L404219-04	WG423641
Fluorene	ppm	0.00834	0.00	.01	83.4	37-120	L404219-04	WG423641
Hexachloro-1,3-butadiene	ppm	0.00544	0.00	.01	54.4	16-118	L404219-04	WG423641
Hexachlorobenzene	ppm	0.00705	0.00	.01	70.5	41-114	L404219-04	WG423641
Hexachlorocyclopentadiene	ppm	0.00454	0.00	.01	45.4	0-132	L404219-04	WG423641
Hexachloroethane	ppm	0.00370	0.00	.01	37.0	10-125	L404219-04	WG423641
Indeno(1,2,3-cd)pyrene	ppm	0.00602	0.00	.01	60.2	10-138	L404219-04	WG423641
Isophorone	ppm	0.00611	0.00	.01	61.1	32-131	L404219-04	WG423641
n-Nitrosodi-n-propylamine	ppm	0.00534	0.00	.01	53.4	20-145	L404219-04	WG423641
n-Nitrosodimethylamine	ppm	0.00222	0.00	.01	22.2	0-75	L404219-04	WG423641
n-Nitrosodiphenylamine	ppm	0.00693	0.00	.01	69.3	10-171	L404219-04	WG423641
Naphthalene	ppm	0.00604	0.00	.01	60.4	14-114	L404219-04	WG423641
Nitrobenzene	ppm	0.00510	0.00	.01	51.0	14-122	L404219-04	WG423641
Pentachlorophenol	ppm	0.00831	0.00	.01	83.1	0-137	L404219-04	WG423641
Phenanthrene	ppm	0.00715	0.00	.01	71.5	38-121	L404219-04	WG423641
Phenol	ppm	0.00254	0.00	.01	25.4	10-68	L404219-04	WG423641
Pyrene	ppm	0.00803	0.00	.01	80.3	27-136	L404219-04	WG423641
2,4,6-Tribromophenol					80.55	10-148		WG423641
2-Fluorobiphenyl					73.03	26-122		WG423641
2-Fluorophenol					33.99	10-87		WG423641
Nitrobenzene-d5					51.97	12-120		WG423641
Phenol-d5					21.21	10-67		WG423641
p-Terphenyl-d14					88.76	34-149		WG423641
Arsenic	mg/kg	96.7	45.0	10	103.	75-125	L404107-01	WG423648
Barium	mg/kg	124.	57.0	10	134.*	75-125	L404107-01	WG423648
Cadmium	mg/kg	75.3	15.0	10	121.	75-125	L404107-01	WG423648
Chromium	mg/kg	90.7	30.0	10	121.	75-125	L404107-01	WG423648
Lead	mg/kg	278.	280.	10	0.00*	75-125	L404107-01	WG423648
Silver	mg/kg	67.9	12.0	10	112.	75-125	L404107-01	WG423648
Arsenic	mg/l	1.00	0.00	1.13	88.5	75-125	L404086-13	WG423914
Barium	mg/l	1.13	0.0710	1.13	93.7	75-125	L404086-13	WG423914
Cadmium	mg/l	1.04	0.00	1.13	92.0	75-125	L404086-13	WG423914
Chromium	mg/l	1.00	0.00	1.13	88.5	75-125	L404086-13	WG423914
Lead	mg/l	1.02	0.00	1.13	90.3	75-125	L404086-13	WG423914

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SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404086

June 04, 2009

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Selenium	mg/l	0.985	0.00	1.13	87.2	75-125	L404086-13	WG423914
Silver	mg/l	0.0262	0.00	1.13	2.32*	75-125	L404086-13	WG423914
Selenium	mg/kg	39.6	2.35	50	74.5*	75-125	L405254-04	WG424615

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0497	0.0452	99.4	45-152	9.44	21	L403911-01	WG423255
1,1,1-Trichloroethane	mg/l	0.0446	0.0420	89.2	31-161	5.93	23	L403911-01	WG423255
1,1,2,2-Tetrachloroethane	mg/l	0.0496	0.0448	99.1	49-149	10.1	22	L403911-01	WG423255
1,1,2-Trichloroethane	mg/l	0.0445	0.0408	89.0	46-145	8.61	20	L403911-01	WG423255
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0358	0.0326	71.5	14-168	9.26	24	L403911-01	WG423255
1,1-Dichloroethane	mg/l	0.0443	0.0410	88.6	30-159	7.63	21	L403911-01	WG423255
1,1-Dichloroethene	mg/l	0.0393	0.0374	78.6	10-162	5.09	23	L403911-01	WG423255
1,1-Dichloropropene	mg/l	0.0447	0.0406	89.5	14-162	9.72	23	L403911-01	WG423255
1,2,3-Trichlorobenzene	mg/l	0.0544	0.0468	109.	32-143	15.0	33	L403911-01	WG423255
1,2,3-Trichloropropane	mg/l	0.0519	0.0447	104.	48-148	15.0	23	L403911-01	WG423255
1,2,3-Trimethylbenzene	mg/l	0.0498	0.0438	99.6	36-141	12.9	25	L403911-01	WG423255
1,2,4-Trichlorobenzene	mg/l	0.0522	0.0464	104.	27-142	11.8	30	L403911-01	WG423255
1,2,4-Trimethylbenzene	mg/l	0.0526	0.0477	105.	29-153	9.71	27	L403911-01	WG423255
1,2-Dibromo-3-Chloropropane	mg/l	0.0546	0.0475	109.	37-148	14.1	27	L403911-01	WG423255
1,2-Dibromoethane	mg/l	0.0459	0.0422	91.9	41-149	8.55	21	L403911-01	WG423255
1,2-Dichlorobenzene	mg/l	0.0492	0.0429	98.4	40-139	13.7	23	L403911-01	WG423255
1,2-Dichloroethane	mg/l	0.0447	0.0401	89.4	29-167	10.9	21	L403911-01	WG423255
1,2-Dichloropropane	mg/l	0.0439	0.0401	87.8	39-148	8.95	20	L403911-01	WG423255
1,3,5-Trimethylbenzene	mg/l	0.0519	0.0473	104.	33-149	9.38	26	L403911-01	WG423255
1,3-Dichlorobenzene	mg/l	0.0483	0.0442	96.6	32-148	8.84	24	L403911-01	WG423255
1,3-Dichloropropane	mg/l	0.0446	0.0404	89.2	44-142	9.88	20	L403911-01	WG423255
1,4-Dichlorobenzene	mg/l	0.0482	0.0428	96.3	32-136	11.8	23	L403911-01	WG423255
2,2-Dichloropropane	mg/l	0.0467	0.0436	93.4	14-158	6.89	23	L403911-01	WG423255
2-Butanone (MEK)	mg/l	0.211	0.192	84.6	32-151	9.77	26	L403911-01	WG423255
2-Chloroethyl vinyl ether	mg/l	0.0022	0.0264	0.918	0-175	168.*	75	L403911-01	WG423255
2-Chlorotoluene	mg/l	0.0486	0.0445	97.2	35-147	8.86	24	L403911-01	WG423255
4-Chlorotoluene	mg/l	0.0498	0.0450	99.5	33-147	10.0	25	L403911-01	WG423255
4-Methyl-2-pentanone (MIBK)	mg/l	0.263	0.225	105.	40-160	15.6	28	L403911-01	WG423255
Acetone	mg/l	0.221	0.197	88.5	25-157	11.6	26	L403911-01	WG423255
Acrolein	mg/l	0.114	0.112	45.5	0-179	1.79	39	L403911-01	WG423255
Acrylonitrile	mg/l	0.241	0.215	96.4	37-162	11.4	24	L403911-01	WG423255
Benzene	mg/l	0.0555	0.0512	87.0	16-158	7.98	21	L403911-01	WG423255
Bromobenzene	mg/l	0.0455	0.0416	91.0	37-147	8.99	23	L403911-01	WG423255
Bromodichloromethane	mg/l	0.0474	0.0430	94.8	45-147	9.79	20	L403911-01	WG423255
Bromoform	mg/l	0.0530	0.0468	106.	38-152	12.4	20	L403911-01	WG423255
Bromomethane	mg/l	0.0355	0.0352	71.1	0-191	0.816	35	L403911-01	WG423255
Carbon tetrachloride	mg/l	0.0459	0.0410	91.8	22-168	11.4	24	L403911-01	WG423255
Chlorobenzene	mg/l	0.0476	0.0438	95.2	33-148	8.37	22	L403911-01	WG423255
Chlorodibromomethane	mg/l	0.0494	0.0452	98.7	48-151	8.79	21	L403911-01	WG423255
Chloroethane	mg/l	0.0384	0.0348	76.8	4-176	9.80	27	L403911-01	WG423255
Chloroform	mg/l	0.0429	0.0392	85.8	37-147	9.10	21	L403911-01	WG423255
Chloromethane	mg/l	0.0379	0.0350	75.8	10-174	7.88	28	L403911-01	WG423255
cis-1,2-Dichloroethene	mg/l	0.0437	0.0407	87.4	29-156	7.04	22	L403911-01	WG423255
cis-1,3-Dichloropropene	mg/l	0.0478	0.0431	95.6	35-148	10.4	21	L403911-01	WG423255
Di-isopropyl ether	mg/l	0.0592	0.0547	94.4	39-160	7.92	21	L403911-01	WG423255
Dibromomethane	mg/l	0.0450	0.0391	90.0	36-152	13.9	20	L403911-01	WG423255
Dichlorodifluoromethane	mg/l	0.0367	0.0340	73.4	0-200	7.73	26	L403911-01	WG423255
Ethylbenzene	mg/l	0.0489	0.0449	95.3	29-150	8.72	24	L403911-01	WG423255
Hexachloro-1,3-Butadiene	mg/l	0.0501	0.0447	100.	28-144	11.5	33	L403911-01	WG423255
Isopropylbenzene	mg/l	0.0510	0.0458	102.	35-147	10.6	25	L403911-01	WG423255

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12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404086

June 04, 2009

Analyte	Units	Matrix Spike MSD	Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
Methyl tert-butyl ether	mg/l	0.215	0.199	90.5	24-167	7.65	22	L403911-01	WG423255
Methylene Chloride	mg/l	0.0421	0.0391	84.2	23-151	7.40	21	L403911-01	WG423255
n-Butylbenzene	mg/l	0.0517	0.0466	103.	22-151	10.3	29	L403911-01	WG423255
n-Propylbenzene	mg/l	0.0495	0.0456	99.0	26-150	8.30	25	L403911-01	WG423255
Naphthalene	mg/l	0.0573	0.0503	115.	24-160	13.1	37	L403911-01	WG423255
p-Isopropyltoluene	mg/l	0.0532	0.0482	106.	28-151	9.90	27	L403911-01	WG423255
sec-Butylbenzene	mg/l	0.0522	0.0480	104.	32-149	8.41	26	L403911-01	WG423255
Styrene	mg/l	0.0529	0.0480	106.	38-149	9.86	23	L403911-01	WG423255
tert-Butylbenzene	mg/l	0.0517	0.0462	103.	36-149	11.3	26	L403911-01	WG423255
Tetrachloroethene	mg/l	0.0442	0.0393	88.4	13-157	11.8	24	L403911-01	WG423255
Toluene	mg/l	0.0464	0.0406	92.8	22-152	13.4	22	L403911-01	WG423255
trans-1,2-Dichloroethene	mg/l	0.0420	0.0390	84.0	11-160	7.43	23	L403911-01	WG423255
trans-1,3-Dichloropropene	mg/l	0.0498	0.0440	99.7	33-153	12.5	22	L403911-01	WG423255
Trichloroethene	mg/l	0.0464	0.0412	92.9	18-163	12.0	21	L403911-01	WG423255
Trichlorofluoromethane	mg/l	0.0394	0.0368	78.9	10-177	6.87	24	L403911-01	WG423255
Vinyl chloride	mg/l	0.0402	0.0378	80.4	0-179	6.28	26	L403911-01	WG423255
4-Bromofluorobenzene				100.3	75-128				WG423255
Dibromofluoromethane				95.04	79-125				WG423255
Toluene-d8				98.82	87-114				WG423255
1,1,1,2-Tetrachloroethane	mg/l	0.0441	0.0444	88.2	45-152	0.608	21	L404133-21	WG423281
1,1,1-Trichloroethane	mg/l	0.0440	0.0445	88.0	31-161	1.12	23	L404133-21	WG423281
1,1,2,2-Tetrachloroethane	mg/l	0.0456	0.0450	91.1	49-149	1.33	22	L404133-21	WG423281
1,1,2-Trichloroethane	mg/l	0.0416	0.0426	83.3	46-145	2.19	20	L404133-21	WG423281
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0339	0.0338	67.9	14-168	0.389	24	L404133-21	WG423281
1,1-Dichloroethane	mg/l	0.0465	0.0462	93.0	30-159	0.748	21	L404133-21	WG423281
1,1-Dichloroethene	mg/l	0.0357	0.0351	71.4	10-162	1.53	23	L404133-21	WG423281
1,1-Dichloropropene	mg/l	0.0431	0.0438	86.3	14-162	1.40	23	L404133-21	WG423281
1,2,3-Trichlorobenzene	mg/l	0.0480	0.0455	96.0	32-143	5.31	33	L404133-21	WG423281
1,2,3-Trichloropropane	mg/l	0.0467	0.0470	93.4	48-148	0.541	23	L404133-21	WG423281
1,2,3-Trimethylbenzene	mg/l	0.0416	0.0404	83.2	36-141	2.85	25	L404133-21	WG423281
1,2,4-Trichlorobenzene	mg/l	0.0504	0.0484	101.	27-142	4.06	30	L404133-21	WG423281
1,2,4-Trimethylbenzene	mg/l	0.0421	0.0430	84.1	29-153	2.14	27	L404133-21	WG423281
1,2-Dibromo-3-Chloropropane	mg/l	0.0463	0.0437	92.6	37-148	5.81	27	L404133-21	WG423281
1,2-Dibromoethane	mg/l	0.0440	0.0448	88.1	41-149	1.65	21	L404133-21	WG423281
1,2-Dichlorobenzene	mg/l	0.0453	0.0439	90.7	40-139	3.29	23	L404133-21	WG423281
1,2-Dichloroethane	mg/l	0.0491	0.0489	98.2	29-167	0.354	21	L404133-21	WG423281
1,2-Dichloropropane	mg/l	0.0443	0.0457	88.5	39-148	3.24	20	L404133-21	WG423281
1,3,5-Trimethylbenzene	mg/l	0.0418	0.0436	83.6	33-149	4.19	26	L404133-21	WG423281
1,3-Dichlorobenzene	mg/l	0.0433	0.0451	86.6	32-148	4.16	24	L404133-21	WG423281
1,3-Dichloropropane	mg/l	0.0442	0.0457	88.3	44-142	3.39	20	L404133-21	WG423281
1,4-Dichlorobenzene	mg/l	0.0439	0.0428	87.8	32-136	2.45	23	L404133-21	WG423281
2,2-Dichloropropane	mg/l	0.0449	0.0459	89.7	14-158	2.25	23	L404133-21	WG423281
2-Butanone (MEK)	mg/l	0.231	0.215	92.4	32-151	7.00	26	L404133-21	WG423281
2-Chloroethyl vinyl ether	mg/l	0.0011	0.0117	0.447	0-175	165.*	75	L404133-21	WG423281
2-Chlorotoluene	mg/l	0.0425	0.0444	85.1	35-147	4.26	24	L404133-21	WG423281
4-Chlorotoluene	mg/l	0.0412	0.0432	82.3	33-147	4.93	25	L404133-21	WG423281
4-Methyl-2-pentanone (MIBK)	mg/l	0.248	0.233	99.1	40-160	6.08	28	L404133-21	WG423281
Acetone	mg/l	0.242	0.235	96.8	25-157	3.06	26	L404133-21	WG423281
Acrolein	mg/l	0.165	0.163	65.9	0-179	1.35	39	L404133-21	WG423281
Acrylonitrile	mg/l	0.245	0.239	97.9	37-162	2.21	24	L404133-21	WG423281
Benzene	mg/l	0.0425	0.0429	84.9	16-158	1.06	21	L404133-21	WG423281
Bromobenzene	mg/l	0.0413	0.0424	82.7	37-147	2.49	23	L404133-21	WG423281
Bromodichloromethane	mg/l	0.0424	0.0419	84.7	45-147	1.09	20	L404133-21	WG423281
Bromoform	mg/l	0.0433	0.0428	86.6	38-152	1.20	20	L404133-21	WG423281
Bromomethane	mg/l	0.0302	0.0304	60.4	0-191	0.563	35	L404133-21	WG423281
Carbon tetrachloride	mg/l	0.0452	0.0454	90.4	22-168	0.401	24	L404133-21	WG423281
Chlorobenzene	mg/l	0.0404	0.0413	80.8	33-148	2.24	22	L404133-21	WG423281

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Amy Zach
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Quality Assurance Report
Level II

L404086

June 04, 2009

Analyte	Units	Matrix Spike MSD	Ref	%Rec	Limit	RPD	Limit	Duplicate Ref Samp	Batch
Chlorodibromomethane	mg/l	0.0410	0.0414	82.1	48-151	0.983	21	L404133-21	WG423281
Chloroethane	mg/l	0.0362	0.0366	72.4	4-176	1.05	27	L404133-21	WG423281
Chloroform	mg/l	0.0483	0.0486	96.6	37-147	0.578	21	L404133-21	WG423281
Chloromethane	mg/l	0.0335	0.0345	67.0	10-174	2.87	28	L404133-21	WG423281
cis-1,2-Dichloroethene	mg/l	0.0419	0.0425	83.8	29-156	1.26	22	L404133-21	WG423281
cis-1,3-Dichloropropene	mg/l	0.0461	0.0457	92.2	35-148	0.829	21	L404133-21	WG423281
Di-isopropyl ether	mg/l	0.0453	0.0460	90.7	39-160	1.47	21	L404133-21	WG423281
Dibromomethane	mg/l	0.0454	0.0427	90.9	36-152	6.14	20	L404133-21	WG423281
Dichlorodifluoromethane	mg/l	0.0291	0.0299	58.1	0-200	2.86	26	L404133-21	WG423281
Ethylbenzene	mg/l	0.0413	0.0421	82.5	29-150	2.08	24	L404133-21	WG423281
Hexachloro-1,3-Butadiene	mg/l	0.0492	0.0474	98.4	28-144	3.59	33	L404133-21	WG423281
Isopropylbenzene	mg/l	0.0410	0.0420	82.0	35-147	2.41	25	L404133-21	WG423281
Methyl tert-butyl ether	mg/l	0.0435	0.0432	86.9	24-167	0.603	22	L404133-21	WG423281
Methylene Chloride	mg/l	0.0397	0.0392	79.4	23-151	1.18	21	L404133-21	WG423281
n-Butylbenzene	mg/l	0.0438	0.0431	87.7	22-151	1.66	29	L404133-21	WG423281
n-Propylbenzene	mg/l	0.0416	0.0425	83.1	26-150	2.30	25	L404133-21	WG423281
Naphthalene	mg/l	0.0535	0.0506	107.	24-160	5.58	37	L404133-21	WG423281
p-Isopropyltoluene	mg/l	0.0411	0.0427	82.2	28-151	3.77	27	L404133-21	WG423281
sec-Butylbenzene	mg/l	0.0421	0.0435	84.3	32-149	3.19	26	L404133-21	WG423281
Styrene	mg/l	0.0416	0.0433	83.2	38-149	3.93	23	L404133-21	WG423281
tert-Butylbenzene	mg/l	0.0411	0.0423	82.2	36-149	2.81	26	L404133-21	WG423281
Tetrachloroethene	mg/l	0.0364	0.0375	72.7	13-157	3.12	24	L404133-21	WG423281
Toluene	mg/l	0.0410	0.0410	82.0	22-152	0.148	22	L404133-21	WG423281
trans-1,2-Dichloroethene	mg/l	0.0384	0.0378	76.8	11-160	1.48	23	L404133-21	WG423281
trans-1,3-Dichloropropene	mg/l	0.0467	0.0462	93.5	33-153	1.08	22	L404133-21	WG423281
Trichloroethene	mg/l	0.0405	0.0401	81.0	18-163	1.02	21	L404133-21	WG423281
Trichlorofluoromethane	mg/l	0.0364	0.0369	72.8	10-177	1.40	24	L404133-21	WG423281
Vinyl chloride	mg/l	0.0365	0.0369	73.0	0-179	0.990	26	L404133-21	WG423281
4-Bromofluorobenzene				97.06	75-128				WG423281
Dibromofluoromethane				99.94	79-125				WG423281
Toluene-d8				104.2	87-114				WG423281
Mercury	mg/l	0.0030	0.0031	102.	70-130	1.29	20	L404165-03	WG423232
1,1,1,2-Tetrachloroethane	mg/kg	0.221	0.207	88.4	29-145	6.41	31	L403858-01	WG423335
1,1,1-Trichloroethane	mg/kg	0.246	0.240	98.3	23-147	2.19	32	L403858-01	WG423335
1,1,2,2-Tetrachloroethane	mg/kg	0.212	0.199	84.8	18-150	6.45	33	L403858-01	WG423335
1,1,2-Trichloroethane	mg/kg	0.210	0.198	84.1	35-140	6.13	29	L403858-01	WG423335
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.221	0.217	88.3	10-145	1.73	35	L403858-01	WG423335
1,1-Dichloroethane	mg/kg	0.260	0.258	104.	24-148	0.904	31	L403858-01	WG423335
1,1-Dichloroethene	mg/kg	0.219	0.216	87.5	10-149	1.14	34	L403858-01	WG423335
1,1-Dichloropropene	mg/kg	0.253	0.254	101.	10-141	0.465	34	L403858-01	WG423335
1,2,3-Trichlorobenzene	mg/kg	0.152	0.166	61.0	10-129	8.40	43	L403858-01	WG423335
1,2,3-Trichloropropane	mg/kg	0.227	0.213	90.7	30-148	6.39	32	L403858-01	WG423335
1,2,4-Trichlorobenzene	mg/kg	0.166	0.182	66.3	10-119	9.33	44	L403858-01	WG423335
1,2,4-Trimethylbenzene	mg/kg	0.201	0.197	80.6	10-145	2.16	41	L403858-01	WG423335
1,2-Dibromo-3-Chloropropane	mg/kg	0.212	0.206	84.9	19-145	2.95	35	L403858-01	WG423335
1,2-Dibromoethane	mg/kg	0.235	0.218	93.9	24-145	7.36	31	L403858-01	WG423335
1,2-Dichlorobenzene	mg/kg	0.201	0.202	80.4	12-130	0.322	35	L403858-01	WG423335
1,2-Dichloroethane	mg/kg	0.264	0.265	106.	21-155	0.231	29	L403858-01	WG423335
1,2-Dichloropropane	mg/kg	0.242	0.234	96.8	28-144	3.56	30	L403858-01	WG423335
1,3,5-Trimethylbenzene	mg/kg	0.202	0.198	80.7	10-135	1.91	39	L403858-01	WG423335
1,3-Dichlorobenzene	mg/kg	0.194	0.195	77.7	10-129	0.349	38	L403858-01	WG423335
1,3-Dichloropropane	mg/kg	0.230	0.217	91.9	31-137	5.81	29	L403858-01	WG423335
1,4-Dichlorobenzene	mg/kg	0.200	0.203	79.9	10-121	1.43	36	L403858-01	WG423335
2,2-Dichloropropane	mg/kg	0.246	0.244	98.5	18-144	0.895	32	L403858-01	WG423335
2-Butanone (MEK)	mg/kg	1.20	1.14	96.0	21-143	5.02	37	L403858-01	WG423335

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ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404086

June 04, 2009

Analyte	Units	Matrix Spike MSD	Ref	%Rec	Limit	Duplicate RPD	Limit	Ref Samp	Batch
2-Chloroethyl vinyl ether	mg/kg	0.531	0.835	42.5	0-176	44.5	50	L403858-01	WG423335
2-Chlorotoluene	mg/kg	0.205	0.203	82.2	10-132	1.14	37	L403858-01	WG423335
4-Chlorotoluene	mg/kg	0.199	0.196	79.8	10-129	1.95	38	L403858-01	WG423335
4-Methyl-2-pentanone (MIBK)	mg/kg	1.20	1.13	96.3	31-151	6.56	36	L403858-01	WG423335
Acetone	mg/kg	1.24	1.20	99.2	13-158	3.34	34	L403858-01	WG423335
Acrylonitrile	mg/kg	1.26	1.21	101.	20-154	3.83	35	L403858-01	WG423335
Benzene	mg/kg	0.244	0.241	97.7	16-143	1.25	31	L403858-01	WG423335
Bromobenzene	mg/kg	0.200	0.197	80.2	14-135	1.67	39	L403858-01	WG423335
Bromodichloromethane	mg/kg	0.218	0.209	87.3	27-139	4.40	30	L403858-01	WG423335
Bromoform	mg/kg	0.209	0.193	83.5	21-144	7.72	34	L403858-01	WG423335
Bromomethane	mg/kg	0.226	0.215	90.3	0-180	4.74	41	L403858-01	WG423335
Carbon tetrachloride	mg/kg	0.225	0.247	90.0	12-149	9.50	34	L403858-01	WG423335
Chlorobenzene	mg/kg	0.209	0.200	83.5	17-134	4.13	34	L403858-01	WG423335
Chlorodibromomethane	mg/kg	0.208	0.193	83.0	28-147	7.46	32	L403858-01	WG423335
Chloroethane	mg/kg	0.238	0.235	95.4	0-172	1.66	38	L403858-01	WG423335
Chloroform	mg/kg	0.261	0.254	104.	28-138	2.74	30	L403858-01	WG423335
Chloromethane	mg/kg	0.251	0.249	101.	10-158	1.07	35	L403858-01	WG423335
cis-1,2-Dichloroethene	mg/kg	0.240	0.237	96.0	21-147	1.47	31	L403858-01	WG423335
cis-1,3-Dichloropropene	mg/kg	0.248	0.238	99.2	17-145	3.92	32	L403858-01	WG423335
Di-isopropyl ether	mg/kg	0.247	0.242	98.9	31-153	2.05	29	L403858-01	WG423335
Dibromomethane	mg/kg	0.243	0.230	97.4	24-147	5.71	30	L403858-01	WG423335
Dichlorodifluoromethane	mg/kg	0.222	0.226	88.9	0-192	1.47	38	L403858-01	WG423335
Ethylbenzene	mg/kg	0.214	0.206	85.5	12-137	3.76	36	L403858-01	WG423335
Hexachloro-1,3-Butadiene	mg/kg	0.168	0.183	67.4	10-123	8.36	50	L403858-01	WG423335
Isopropylbenzene	mg/kg	0.208	0.201	83.4	14-134	3.42	37	L403858-01	WG423335
Methyl tert-butyl ether	mg/kg	0.229	0.223	91.7	21-157	2.78	31	L403858-01	WG423335
Methylene Chloride	mg/kg	0.230	0.224	91.9	12-149	2.71	31	L403858-01	WG423335
n-Butylbenzene	mg/kg	0.184	0.195	73.5	10-130	5.79	48	L403858-01	WG423335
n-Propylbenzene	mg/kg	0.200	0.200	80.1	10-130	0.204	40	L403858-01	WG423335
Naphthalene	mg/kg	0.200	0.203	79.8	0-146	1.73	43	L403858-01	WG423335
p-Isopropyltoluene	mg/kg	0.186	0.186	74.5	10-131	0.045	43	L403858-01	WG423335
sec-Butylbenzene	mg/kg	0.192	0.193	76.6	10-134	0.867	43	L403858-01	WG423335
Styrene	mg/kg	0.214	0.203	85.8	10-140	5.67	35	L403858-01	WG423335
tert-Butylbenzene	mg/kg	0.198	0.195	79.2	11-137	1.40	39	L403858-01	WG423335
Tetrachloroethene	mg/kg	0.210	0.198	84.0	10-131	5.88	35	L403858-01	WG423335
Toluene	mg/kg	0.231	0.225	92.6	12-136	2.88	32	L403858-01	WG423335
trans-1,2-Dichloroethene	mg/kg	0.242	0.238	96.9	10-143	1.61	33	L403858-01	WG423335
trans-1,3-Dichloropropene	mg/kg	0.244	0.233	97.5	16-147	4.52	32	L403858-01	WG423335
Trichloroethene	mg/kg	0.230	0.221	91.8	10-155	3.94	33	L403858-01	WG423335
Trichlorofluoromethane	mg/kg	0.227	0.226	91.0	10-154	0.802	32	L403858-01	WG423335
Vinyl chloride	mg/kg	0.264	0.264	106.	10-159	0.202	36	L403858-01	WG423335
4-Bromofluorobenzene				96.25	59-140				WG423335
Dibromofluoromethane				100.7	63-139				WG423335
Toluene-d8				103.0	84-116				WG423335
Mercury	mg/kg	0.249	0.249	89.2	70-130	0.00	20	L404086-06	WG423237
Mercury	mg/kg	0.247	0.250	98.8	70-130	1.21	20	L404149-01	WG423236
1,2,4-Trichlorobenzene	ppm	0.238	0.235	71.5	37-104	1.45	26	L404086-01	WG423636
2,4,6-Trichlorophenol	ppm	0.287	0.281	86.3	27-128	2.38	31	L404086-01	WG423636
2,4-Dichlorophenol	ppm	0.278	0.261	83.5	39-116	6.34	23	L404086-01	WG423636
2,4-Dimethylphenol	ppm	0.419	0.404	125.967*	50-119	3.80	27	L404086-01	WG423636
2,4-Dinitrophenol	ppm	0.247	0.247	74.2	10-123	0.077	42	L404086-01	WG423636
2,4-Dinitrotoluene	ppm	0.283	0.284	85.1	52-121	0.038	23	L404086-01	WG423636
2,6-Dinitrotoluene	ppm	0.265	0.263	79.5	53-114	0.721	22	L404086-01	WG423636

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ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404086

June 04, 2009

Analyte	Units	Matrix Spike MSD	Ref	%Rec	Limit	Duplicate RPD	Limit	Ref Samp	Batch
2-Chloronaphthalene	ppm	0.264	0.254	79.3	52-101	3.86	20	L404086-01	WG423636
2-Chlorophenol	ppm	0.250	0.227	75.0	41-112	9.69	27	L404086-01	WG423636
2-Nitrophenol	ppm	0.277	0.276	83.1	23-117	0.176	31	L404086-01	WG423636
3,3-Dichlorobenzidine	ppm	0.242	0.219	72.8	10-133	10.3	41	L404086-01	WG423636
4,6-Dinitro-2-methylphenol	ppm	0.292	0.293	87.7	10-124	0.323	38	L404086-01	WG423636
4-Bromophenyl-phenylether	ppm	0.238	0.238	71.5	37-103	0.200	23	L404086-01	WG423636
4-Chloro-3-methylphenol	ppm	0.269	0.261	80.7	52-119	2.67	24	L404086-01	WG423636
4-Chlorophenyl-phenylether	ppm	0.275	0.269	82.6	53-105	2.15	20	L404086-01	WG423636
4-Nitrophenol	ppm	0.260	0.259	78.2	15-140	0.668	40	L404086-01	WG423636
Acenaphthene	ppm	0.283	0.274	84.9	52-102	3.04	23	L404086-01	WG423636
Acenaphthylene	ppm	0.286	0.287	85.8	54-103	0.360	22	L404086-01	WG423636
Anthracene	ppm	0.295	0.295	88.7	55-114	0.094	21	L404086-01	WG423636
Benzidine	ppm	0.0020	0.0013	0.628	0-45	40.0	50	L404086-01	WG423636
Benzo(a)anthracene	ppm	0.284	0.265	85.2	37-124	6.94	33	L404086-01	WG423636
Benzo(a)pyrene	ppm	0.289	0.281	86.9	44-129	2.90	27	L404086-01	WG423636
Benzo(b)fluoranthene	ppm	0.260	0.259	78.1	28-135	0.253	33	L404086-01	WG423636
Benzo(g,h,i)perylene	ppm	0.352	0.340	106.	25-123	3.37	35	L404086-01	WG423636
Benzo(k)fluoranthene	ppm	0.262	0.274	78.6	41-116	4.67	34	L404086-01	WG423636
Benzylbutyl phthalate	ppm	0.246	0.237	73.8	45-143	3.59	39	L404086-01	WG423636
Bis(2-chlorethoxy)methane	ppm	0.234	0.225	70.1	48-108	3.80	23	L404086-01	WG423636
Bis(2-chloroethyl)ether	ppm	0.232	0.223	69.8	36-115	4.05	30	L404086-01	WG423636
Bis(2-chloroisopropyl)ether	ppm	0.236	0.212	71.0	44-109	10.8	27	L404086-01	WG423636
Bis(2-ethylhexyl)phthalate	ppm	0.295	0.287	88.6	40-128	2.94	34	L404086-01	WG423636
Chrysene	ppm	0.272	0.262	81.5	39-119	3.64	31	L404086-01	WG423636
Di-n-butyl phthalate	ppm	0.262	0.256	78.7	49-121	2.21	22	L404086-01	WG423636
Di-n-octyl phthalate	ppm	0.253	0.241	76.0	40-132	4.79	27	L404086-01	WG423636
Dibenz(a,h)anthracene	ppm	0.350	0.342	105.	29-123	2.17	30	L404086-01	WG423636
Diethyl phthalate	ppm	0.265	0.261	79.5	51-113	1.41	21	L404086-01	WG423636
Dimethyl phthalate	ppm	0.264	0.312	79.4	54-108	16.7	23	L404086-01	WG423636
Fluoranthene	ppm	0.297	0.304	89.3	23-143	2.09	29	L404086-01	WG423636
Fluorene	ppm	0.287	0.289	86.2	53-107	0.609	22	L404086-01	WG423636
Hexachloro-1,3-butadiene	ppm	0.271	0.256	81.3	39-113	5.46	26	L404086-01	WG423636
Hexachlorobenzene	ppm	0.281	0.277	84.4	49-108	1.59	27	L404086-01	WG423636
Hexachlorocyclopentadiene	ppm	0.170	0.167	51.1	10-131	1.60	39	L404086-01	WG423636
Hexachloroethane	ppm	0.215	0.203	64.6	25-118	5.77	35	L404086-01	WG423636
Indeno(1,2,3-cd)pyrene	ppm	0.342	0.338	103.	28-125	1.19	32	L404086-01	WG423636
Isophorone	ppm	0.231	0.215	69.3	51-115	7.08	22	L404086-01	WG423636
n-Nitrosodi-n-propylamine	ppm	0.230	0.224	69.0	54-110	2.33	23	L404086-01	WG423636
n-Nitrosodimethylamine	ppm	0.261	0.236	78.2	20-116	9.93	38	L404086-01	WG423636
n-Nitrosodiphenylamine	ppm	0.257	0.249	77.3	54-138	3.28	26	L404086-01	WG423636
Naphthalene	ppm	0.260	0.239	78.0	41-100	8.12	26	L404086-01	WG423636
Nitrobenzene	ppm	0.222	0.211	66.7	40-102	5.06	24	L404086-01	WG423636
Pentachlorophenol	ppm	0.250	0.251	75.2	10-146	0.385	35	L404086-01	WG423636
Phenanthrene	ppm	0.271	0.274	81.4	37-125	1.17	27	L404086-01	WG423636
Phenol	ppm	0.259	0.243	77.8	52-111	6.38	22	L404086-01	WG423636
Pyrene	ppm	0.250	0.245	75.0	22-151	1.95	38	L404086-01	WG423636
2,4,6-Tribromophenol				90.82	25-137				WG423636
2-Fluorobiphenyl				72.00	30-120				WG423636
2-Fluorophenol				65.72	26-130				WG423636
Nitrobenzene-d5				55.87	18-119				WG423636
Phenol-d5				65.88	37-141				WG423636
p-Terphenyl-d14				83.07	23-143				WG423636
1,2,4-Trichlorobenzene	ppm	0.0044	0.0054	44.8	18-105	19.8	50	L404219-04	WG423641
2,4,6-Trichlorophenol	ppm	0.0070	0.0072	70.3	10-137	3.53	42	L404219-04	WG423641
2,4-Dichlorophenol	ppm	0.0065	0.0070	65.5	10-133	7.87	50	L404219-04	WG423641
2,4-Dimethylphenol	ppm	0.0064	0.0078	64.6	10-142	19.0	36	L404219-04	WG423641
2,4-Dinitrophenol	ppm	0.0063	0.0060	63.8	10-150	5.95	50	L404219-04	WG423641

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Analyte	Units	Matrix Spike MSD	Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
2,4-Dinitrotoluene	ppm	0.0078	0.0083	78.3	32-137	6.48	36	L404219-04	WG423641
2,6-Dinitrotoluene	ppm	0.0079	0.0078	79.7	35-123	1.26	37	L404219-04	WG423641
2-Chloronaphthalene	ppm	0.0067	0.0071	67.2	33-109	6.69	39	L404219-04	WG423641
2-Chlorophenol	ppm	0.0052	0.0059	52.5	10-155	11.8	50	L404219-04	WG423641
2-Nitrophenol	ppm	0.0066	0.0074	66.5	12-121	11.6	48	L404219-04	WG423641
3,3-Dichlorobenzidine	ppm	0.0008	0.0007	8.165*	10-135	13.8	40	L404219-04	WG423641
4,6-Dinitro-2-methylphenol	ppm	0.0070	0.0074	70.1	0-138	5.99	50	L404219-04	WG423641
4-Bromophenyl-phenylether	ppm	0.0057	0.0059	57.3	35-102	2.78	23	L404219-04	WG423641
4-Chloro-3-methylphenol	ppm	0.0058	0.0062	58.0	10-136	6.89	29	L404219-04	WG423641
4-Chlorophenyl-phenylether	ppm	0.0071	0.0073	71.3	39-116	3.28	32	L404219-04	WG423641
4-Nitrophenol	ppm	0.0025	0.0023	25.0	13-59	7.90	50	L404219-04	WG423641
Acenaphthene	ppm	0.0072	0.0075	72.8	39-112	3.03	37	L404219-04	WG423641
Acenaphthylene	ppm	0.0075	0.0080	75.5	37-114	6.84	35	L404219-04	WG423641
Anthracene	ppm	0.0080	0.0080	80.2	44-136	0.640	24	L404219-04	WG423641
Benzidine	ppm	0.0000	0.0001	0.833	0-25	80.0*	50	L404219-04	WG423641
Benzo(a)anthracene	ppm	0.0073	0.0075	73.2	43-117	3.62	25	L404219-04	WG423641
Benzo(a)pyrene	ppm	0.0070	0.0076	70.7	33-137	8.06	34	L404219-04	WG423641
Benzo(b)fluoranthene	ppm	0.0068	0.0081	68.2	35-128	17.8	50	L404219-04	WG423641
Benzo(g,h,i)perylene	ppm	0.0059	0.0059	59.3	10-139	1.09	50	L404219-04	WG423641
Benzo(k)fluoranthene	ppm	0.0073	0.0066	73.1	36-119	9.36	40	L404219-04	WG423641
Benzylbutyl phthalate	ppm	0.0032	0.0034	32.485*	47-121	5.54	28	L404219-04	WG423641
Bis(2-chlorethoxy)methane	ppm	0.0057	0.0062	57.0	21-135	8.62	39	L404219-04	WG423641
Bis(2-chloroethyl)ether	ppm	0.0040	0.0048	40.8	10-134	17.7	50	L404219-04	WG423641
Bis(2-chloroisopropyl)ether	ppm	0.0043	0.0049	43.4	14-124	13.8	40	L404219-04	WG423641
Bis(2-ethylhexyl)phthalate	ppm	0.0065	0.0067	65.2	10-115	3.65	33	L404219-04	WG423641
Chrysene	ppm	0.0074	0.0077	74.2	41-117	4.32	24	L404219-04	WG423641
Di-n-butyl phthalate	ppm	0.0059	0.0060	59.5	46-121	2.34	27	L404219-04	WG423641
Di-n-octyl phthalate	ppm	0.0064	0.0066	64.2	22-109	3.93	31	L404219-04	WG423641
Dibenz(a,h)anthracene	ppm	0.0058	0.0059	58.0	10-145	2.00	50	L404219-04	WG423641
Diethyl phthalate	ppm	0.0049	0.0048	49.2	23-132	1.13	35	L404219-04	WG423641
Dimethyl phthalate	ppm	0.0017	0.0018	17.653*	42-107	6.20	27	L404219-04	WG423641
Fluoranthene	ppm	0.0079	0.0081	79.9	36-130	1.41	27	L404219-04	WG423641
Fluorene	ppm	0.0076	0.0083	76.5	37-120	8.62	30	L404219-04	WG423641
Hexachloro-1,3-butadiene	ppm	0.0045	0.0054	45.2	16-118	18.5	50	L404219-04	WG423641
Hexachlorobenzene	ppm	0.0066	0.0070	66.6	41-114	5.71	28	L404219-04	WG423641
Hexachlorocyclopentadiene	ppm	0.0039	0.0045	39.1	0-132	14.9	50	L404219-04	WG423641
Hexachloroethane	ppm	0.0028	0.0037	28.5	10-125	25.9	50	L404219-04	WG423641
Indeno(1,2,3-cd)pyrene	ppm	0.0059	0.0060	59.8	10-138	0.697	50	L404219-04	WG423641
Isophorone	ppm	0.0056	0.0061	56.0	32-131	8.68	38	L404219-04	WG423641
n-Nitrosodi-n-propylamine	ppm	0.0046	0.0053	46.7	20-145	13.3	43	L404219-04	WG423641
n-Nitrosodimethylamine	ppm	0.0020	0.0022	20.7	0-75	6.72	50	L404219-04	WG423641
n-Nitrosodiphenylamine	ppm	0.0065	0.0069	65.5	10-171	5.59	34	L404219-04	WG423641
Naphthalene	ppm	0.0051	0.0060	51.2	14-114	16.5	50	L404219-04	WG423641
Nitrobenzene	ppm	0.0043	0.0051	43.4	14-122	16.0	46	L404219-04	WG423641
Pentachlorophenol	ppm	0.0080	0.0083	80.4	0-137	3.34	50	L404219-04	WG423641
Phenanthrene	ppm	0.0071	0.0071	71.3	38-121	0.342	26	L404219-04	WG423641
Phenol	ppm	0.0022	0.0025	22.9	10-68	10.0	32	L404219-04	WG423641
Pyrene	ppm	0.0081	0.0080	81.4	27-136	1.38	33	L404219-04	WG423641
2,4,6-Tribromophenol				75.81	10-148				WG423641
2-Fluorobiphenyl				65.82	26-122				WG423641
2-Fluorophenol				30.94	10-87				WG423641
Nitrobenzene-d5				44.95	12-120				WG423641
Phenol-d5				19.33	10-67				WG423641
p-Terphenyl-d14				85.10	34-149				WG423641
Arsenic	mg/kg	103.	96.7	116.	75-125	6.31	20	L404107-01	WG423648
Barium	mg/kg	125.	124.	136*	75-125	0.803	20	L404107-01	WG423648
Cadmium	mg/kg	80.1	75.3	130.2*	75-125	6.18	20	L404107-01	WG423648

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404086

June 04, 2009

Analyte	Units	Matrix Spike MSD	Matrix Spike Ref	Matrix Spike %Rec	Limit	Duplicate RPD	Limit	Ref Samp	Batch
Chromium	mg/kg	92.3	90.7	125.	75-125	1.75	20	L404107-01	WG423648
Lead	mg/kg	372.	278.	184*	75-125	28.9*	20	L404107-01	WG423648
Silver	mg/kg	72.7	67.9	121.	75-125	6.83	20	L404107-01	WG423648
Arsenic	mg/l	1.02	1.00	90.3	75-125	1.98	20	L404086-13	WG423914
Barium	mg/l	1.12	1.13	92.8	75-125	0.889	20	L404086-13	WG423914
Cadmium	mg/l	1.03	1.04	91.2	75-125	0.966	20	L404086-13	WG423914
Chromium	mg/l	1.01	1.00	89.4	75-125	0.995	20	L404086-13	WG423914
Lead	mg/l	1.04	1.02	92.0	75-125	1.94	20	L404086-13	WG423914
Selenium	mg/l	0.986	0.985	87.3	75-125	0.101	20	L404086-13	WG423914
Silver	mg/l	0.0272	0.0262	2.407*	75-125	3.75	20	L404086-13	WG423914
Selenium	mg/kg	38.3	39.6	71.9*	75-125	3.34	20	L405254-04	WG424615

Batch number /Run number / Sample number cross reference

WG423255: R752586: L404086-08 09 10 11 12 13 14 15
WG423281: R752727: L404086-16
WG423232: R754168: L404086-08 09 10 11 12 13
WG423335: R754547: L404086-01 02 03 04 05 06 07
WG423236: R754747: L404086-01 02 03 04
WG423237: R754748: L404086-05 06 07
WG423248: R755647: L404086-08
WG423343: R755648: L404086-09 10 11
WG423615: R757886: L404086-01 02 03 04
WG423616: R757887: L404086-05 06
WG423636: R760706: L404086-01 02 03 04 05 06
WG423641: R760707: L404086-12 13
WG423648: R767466: L404086-01 02 03 04 05 06
WG423914: R770986: L404086-08 09 10 11 12 13
WG424615: R771026: L404086-01 02 03 04 05 06

* * Calculations are performed prior to rounding of reported values .
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404086

June 04, 2009

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Chain of Custody

Page 1 of 8

B137

Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin,OR 97062

Alternate billing information:

Report to: Amy Zach

Email: Amy.Zach@stantec.com

Project Description: US Marine - Brunswick 17825 59th Ave NE,

City/State Collected: Arlington, WA

Phone: (503) 691-2030
FAX: (503) 692-7074

Client Project #: 190402025.200.0001

Lab Project #: SECORTOR-USMARINE

Collected by (print): Amy Zach

Site/Facility ID#: ARLINGTON, WA

P.O.#:

Collected by (signature): Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day.....100%
___ Two Day.....50%
___ Three Day.....25%

Date Results Needed

Email? ___No X Yes
FAX? ___No ___Yes

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	NWTPHDX, TS 4ozClr-NoPres	NWTPHGX 40ml/NaHSO4/Syr/MeOH	RCRA8 Metals 2ozClr-NoPres	RCRA8 Metals 500mlHDPE-HNO3	SV8270PAHSIM 1L-Amb NoPres	SV8270PAHSIM 4ozAmb-NoPres	TS 4ozClr-NoPres	V8260 40ml/NaHSO4/Syr/MeOH	Remarks/Contaminant	Sample # (lab only)
B-1-15	Grab	SS	15	05-20-09	0956	11	H	H	X			X	X	X		L404636-01
B-2-15		SS	15	05-20-09	1200	11	H	H	X			X	X	X		-02
B-3-15		SS	15	05-21-09	0834	7			X			X	X	X		-03
B-4-15		SS	15		1009	11	H	H	X			X	X	X		-04
B-5-15		SS	15		1127	11			X			X	X	X		-05
B-6-5		SS	5		1252	7			X			X	X	X		-06
B-6-15	V	SS	15	V	1305	7			X			X	X	X		-07
		SS				7			X			X	X	X		
		SS				7			X			X	X	X		

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: H - please hold analysis

pH _____ Temp _____

Flow _____ Other _____

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Acctnum: SECORTOR (lab use only)
Template/Prelogin: T58152/ P282561
Cooler #: 5/15D
Shipped Via: FedEX 2nd Day

966974553644

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	05-21-09	1451	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____
Temp: 3.5 Bottles Received: 90
Date: 5/22/09 Time: 0900

Condition: (lab use only)
COC Seal Intact: ___ Y ___ N ___ NA
pH Checked: NCF:

Stantec Consulting - Tualatin, OR

7730 SW Mohawk Street
Tualatin,OR 97062

Alternate billing information:

Chain of Custody Page 4 of 8

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Amy Zach
Email: Amy.Zach@stantec.com
Project Description: US Marine - Brunswick 17825 59th Ave NE,
City/State Collected: Arlington, WA
Phone: (503) 691-2030
FAX: (503) 692-7074
Client Project #: 190402025.200.0001 ~~190480~~
Lab Project #: SECORTOR-USMARINE
Collected by (print): Amy Zach
Site/Facility ID#: ARLINGTON, WA
P.O.#:
Collected by (signature): Amy Zach
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? __No X Yes
FAX? __No __Yes

Acctnum: SECORTOR (lab use only)
Template/Prelogin: T58152/ P282561
Cooler #: 5/15
Shipped Via: FedEX 2nd Day

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	NWTPHDX, TS 4ozClr-NoPres	NWTPHGX 40ml/NaHSO4/Syr/MeOH	RCRA8 Metals 2ozClr-NoPres	RCRA8 Metals 500mlHDPE-HNO3	SV8270 1L-Amb NoPres SVOCs	SV8270PAHSIM 4ozAmb-NoPres	TS 4ozClr-NoPres	V8260 40ml/NaHSO4/Syr/MeOH	Remarks/Contaminant	Sample # (lab only)
B-1	Grab	GW	--	05-20-09	1020	5				X	X			X		246086-08
B-2		GW	--	05-21-09	0800	5				X	X			X		-09
B-3		GW	--	05-21-09	0907	5				X	X			X		-10
B-4		GW	--		1040	5				X	X			X		-11
B-5		GW	--		1200	5				X	X			X		-12
B-6		GW	--		1335	5				X	X			X		-13
TB-3		~~GW~~				1				~~X~~	~~X~~			X		-14
TB-2		~~GW~~				1				~~X~~	~~X~~			X		-15
TRIP BLANK-1		GW				1								X		-16

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

9669 7455 1709

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Amy Zach	05-21-09	1450	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Lisa Wolen

Samples returned via: ☒ FedEx ☐ UPS ☐ Courier ☐ _____
Temp: 2.5° Bottles Received: 90
Date: 5/23/09 Time: 0700

Condition: OK (lab use only)
COC Seal Intact: Y ___ N ___ NA
pH Checked: ___ NCF: ___

Susan Peach

From: Jason Deathridge
Sent: Wednesday, May 27, 2009 8:37 AM
To: Jarred Willis; Login; Due SVOC; Extractions; Reporting
Cc: Chris Johnson; Ken Buckley; Charles Loyd; Robb Gleaves
Subject: RE: L404086-01 through -07 - Deleted SV8270PAHSIM analysis in WG423440 and added SV8270

SV8270 has been added. Does the due date need to be changed?

Reporting: Scan email with COC.

From: Jarred Willis
Sent: Tuesday, May 26, 2009 7:50 PM
To: Login; Due SVOC; Extractions
Cc: Chris Johnson; Ken Buckley; Charles Loyd; Robb Gleaves
Subject: L404086-01 through -07 - Deleted SV8270PAHSIM analysis in WG423440 and added SV8270
Importance: High

I have deleted the SV8270PAHSIM analysis for L404086-01 through -07. These were all in OP:PREP:WG423440 and SEMI:REDO:WG423186. This analysis has been deleted for these samples.

Please add SV8270 to each of these samples. L404086-01 through -07.

Thanks,
Jarred

From: Jarred Willis
Sent: Friday, May 22, 2009 9:03 AM
To: Login
Subject: Samples arriving today from *SECORTOR* - T58152/P282561

We will be receiving a total of 3 coolers from *SECORTOR* this morning via FedEx for T58152/P282561.

Project Information:
Stantec Consulting - Tualatin, OR
SECORTOR - T58152/P282561
US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Log samples as follows:

Soil:
SV8270 (**not SV8270PAHSIM**)
MRCRA8
V8260
TERRACORE
TS

Some soils will also need to be logged for...
NWTPHDX

NWTPHGX
TERRACORE
TS

Water:
SV8270 (**not SV8270PAHSIM**)
MRCRA8
V8260

The client made some changes to the COC, so it may be confusing. Please let me know if you have any questions.

Thanks,
Jarred Willis
Technical Service Representative (TSR)
E-mail: **jwillis@esclabsciences.com**
Phone: 800-767-5859 Ext. 9678
Direct: (615) 773-9678
www.esclabsciences.com

<< OLE Object: Picture (Metafile) >>

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street

Tualatin, OR 97062

Report Summary

Monday June 01, 2009

Report Number: L404176
Samples Received: 05/23/09
Client Project: 190402025.200.0001

Description: US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

T. Alan Harvill, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 01,2009

ESC Sample # : L404176-01

Date Received : May 23, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-7 15 FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 15:46

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	95.2		%	2540G	05/30/09	1
Mercury	BDL	0.021	mg/kg	7471	05/26/09	1
Arsenic	1.4	1.0	mg/kg	6010B	05/29/09	1
Barium	60.	0.26	mg/kg	6010B	05/29/09	1
Cadmium	0.38	0.26	mg/kg	6010B	05/29/09	1
Chromium	45.	0.52	mg/kg	6010B	05/29/09	1
Lead	3.4	0.26	mg/kg	6010B	05/29/09	1
Selenium	BDL	5.2	mg/kg	6010B	05/29/09	5
Silver	1.2	0.52	mg/kg	6010B	05/29/09	1
Volatile Organics						
Acetone	BDL	0.052	mg/kg	8260B	05/27/09	1
Acrylonitrile	BDL	0.010	mg/kg	8260B	05/27/09	1
Benzene	BDL	0.0010	mg/kg	8260B	05/27/09	1
Bromobenzene	BDL	0.0010	mg/kg	8260B	05/27/09	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260B	05/27/09	1
Bromoform	BDL	0.0010	mg/kg	8260B	05/27/09	1
Bromomethane	BDL	0.0052	mg/kg	8260B	05/27/09	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260B	05/27/09	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260B	05/27/09	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260B	05/27/09	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260B	05/27/09	1
Chlorobenzene	BDL	0.0010	mg/kg	8260B	05/27/09	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260B	05/27/09	1
Chloroethane	BDL	0.0052	mg/kg	8260B	05/27/09	1
2-Chloroethyl vinyl ether	BDL	0.052	mg/kg	8260B	05/27/09	1
Chloroform	BDL	0.0052	mg/kg	8260B	05/27/09	1
Chloromethane	BDL	0.0010	mg/kg	8260B	05/27/09	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260B	05/27/09	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260B	05/27/09	1
1,2-Dibromo-3-Chloropropane	BDL	0.0052	mg/kg	8260B	05/27/09	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260B	05/27/09	1
Dibromomethane	BDL	0.0010	mg/kg	8260B	05/27/09	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	05/27/09	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	05/27/09	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	05/27/09	1
Dichlorodifluoromethane	BDL	0.0052	mg/kg	8260B	05/27/09	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260B	05/27/09	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260B	05/27/09	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260B	05/27/09	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	05/27/09	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	05/27/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 01,2009

ESC Sample # : L404176-01

Date Received : May 23, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-7 15 FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 15:46

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	05/27/09	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260B	05/27/09	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260B	05/27/09	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	05/27/09	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	05/27/09	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	05/27/09	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260B	05/27/09	1
Ethylbenzene	BDL	0.0010	mg/kg	8260B	05/27/09	1
Hexachloro-1,3-Butadiene	BDL	0.0010	mg/kg	8260B	05/27/09	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260B	05/27/09	1
p-Isopropyltoluene	BDL	0.0010	mg/kg	8260B	05/27/09	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260B	05/27/09	1
Methylene Chloride	BDL	0.0052	mg/kg	8260B	05/27/09	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260B	05/27/09	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260B	05/27/09	1
Naphthalene	BDL	0.0052	mg/kg	8260B	05/27/09	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260B	05/27/09	1
Styrene	BDL	0.0010	mg/kg	8260B	05/27/09	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	05/27/09	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	05/27/09	1
Tetrachloroethene	BDL	0.0010	mg/kg	8260B	05/27/09	1
Toluene	BDL	0.0052	mg/kg	8260B	05/27/09	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	05/27/09	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	05/27/09	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260B	05/27/09	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260B	05/27/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0010	mg/kg	8260B	05/27/09	1
Trichloroethene	BDL	0.0010	mg/kg	8260B	05/27/09	1
Trichlorofluoromethane	BDL	0.0052	mg/kg	8260B	05/27/09	1
1,2,3-Trichloropropane	BDL	0.0010	mg/kg	8260B	05/27/09	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	05/27/09	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	05/27/09	1
Vinyl chloride	BDL	0.0010	mg/kg	8260B	05/27/09	1
Xylenes, Total	BDL	0.0032	mg/kg	8260B	05/27/09	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	05/27/09	1
Dibromofluoromethane	90.4		% Rec.	8260B	05/27/09	1
4-Bromofluorobenzene	95.5		% Rec.	8260B	05/27/09	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0063	mg/kg	8270C-SIM	05/28/09	1
Acenaphthene	BDL	0.0063	mg/kg	8270C-SIM	05/28/09	1
Acenaphthylene	BDL	0.0063	mg/kg	8270C-SIM	05/28/09	1
Benzo(a)anthracene	BDL	0.0063	mg/kg	8270C-SIM	05/28/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
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Est. 1970

REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 01,2009

ESC Sample # : L404176-01

Date Received : May 23, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-7 15 FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 15:46

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Benzo(a)pyrene	BDL	0.0063	mg/kg	8270C-SIM	05/28/09	1
Benzo(b)fluoranthene	BDL	0.0063	mg/kg	8270C-SIM	05/28/09	1
Benzo(g,h,i)perylene	BDL	0.0063	mg/kg	8270C-SIM	05/28/09	1
Benzo(k)fluoranthene	BDL	0.0063	mg/kg	8270C-SIM	05/28/09	1
Chrysene	BDL	0.0063	mg/kg	8270C-SIM	05/28/09	1
Dibenz(a,h)anthracene	BDL	0.0063	mg/kg	8270C-SIM	05/28/09	1
Fluoranthene	BDL	0.0063	mg/kg	8270C-SIM	05/28/09	1
Fluorene	BDL	0.0063	mg/kg	8270C-SIM	05/28/09	1
Indeno(1,2,3-cd)pyrene	BDL	0.0063	mg/kg	8270C-SIM	05/28/09	1
Naphthalene	BDL	0.0063	mg/kg	8270C-SIM	05/28/09	1
Phenanthrene	BDL	0.0063	mg/kg	8270C-SIM	05/28/09	1
Pyrene	BDL	0.0063	mg/kg	8270C-SIM	05/28/09	1
1-Methylnaphthalene	BDL	0.0063	mg/kg	8270C-SIM	05/28/09	1
2-Methylnaphthalene	BDL	0.0063	mg/kg	8270C-SIM	05/28/09	1
2-Chloronaphthalene	BDL	0.0063	mg/kg	8270C-SIM	05/28/09	1
Surrogate Recovery						
Nitrobenzene-d5	54.2		% Rec.	8270C-SIM	05/28/09	1
2-Fluorobiphenyl	68.6		% Rec.	8270C-SIM	05/28/09	1
p-Terphenyl-d14	88.6		% Rec.	8270C-SIM	05/28/09	1

Results listed are dry weight basis.
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Reported: 06/01/09 16:12 Printed: 06/01/09 16:48

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 01,2009

ESC Sample # : L404176-02

Date Received : May 23, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-7

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 16:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.20	ug/l	7470A	05/26/09	1
Arsenic	BDL	20.	ug/l	6010B	05/31/09	1
Barium	82.	5.0	ug/l	6010B	05/31/09	1
Cadmium	BDL	5.0	ug/l	6010B	05/31/09	1
Chromium	32.	10.	ug/l	6010B	05/31/09	1
Lead	6.5	5.0	ug/l	6010B	05/31/09	1
Selenium	BDL	20.	ug/l	6010B	05/31/09	1
Silver	BDL	10.	ug/l	6010B	05/31/09	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	05/25/09	1
Acrolein	BDL	50.	ug/l	8260B	05/25/09	1
Acrylonitrile	BDL	10.	ug/l	8260B	05/25/09	1
Benzene	BDL	1.0	ug/l	8260B	05/25/09	1
Bromobenzene	BDL	1.0	ug/l	8260B	05/25/09	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	05/25/09	1
Bromoform	BDL	1.0	ug/l	8260B	05/25/09	1
Bromomethane	BDL	5.0	ug/l	8260B	05/25/09	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	05/25/09	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	05/25/09	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	05/25/09	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	05/25/09	1
Chlorobenzene	BDL	1.0	ug/l	8260B	05/25/09	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	05/25/09	1
Chloroethane	BDL	5.0	ug/l	8260B	05/25/09	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	05/25/09	1
Chloroform	BDL	5.0	ug/l	8260B	05/25/09	1
Chloromethane	BDL	2.5	ug/l	8260B	05/25/09	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	05/25/09	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	05/25/09	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	05/25/09	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	05/25/09	1
Dibromomethane	BDL	1.0	ug/l	8260B	05/25/09	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/25/09	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/25/09	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/25/09	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	05/25/09	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	05/25/09	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	05/25/09	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	05/25/09	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/25/09	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/25/09	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/25/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 01,2009

ESC Sample # : L404176-02

Date Received : May 23, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-7

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 16:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	05/25/09	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	05/25/09	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/25/09	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/25/09	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/25/09	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	05/25/09	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/25/09	1
Hexachloro-1,3-Butadiene	BDL	1.0	ug/l	8260B	05/25/09	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	05/25/09	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	05/25/09	1
2-Butanone (MEK)	BDL	10.	ug/l	8260B	05/25/09	1
Methylene Chloride	BDL	5.0	ug/l	8260B	05/25/09	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	05/25/09	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	05/25/09	1
Naphthalene	BDL	5.0	ug/l	8260B	05/25/09	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	05/25/09	1
Styrene	BDL	1.0	ug/l	8260B	05/25/09	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/25/09	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/25/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	1.0	ug/l	8260B	05/25/09	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	05/25/09	1
Toluene	BDL	5.0	ug/l	8260B	05/25/09	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/25/09	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/25/09	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	05/25/09	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	05/25/09	1
Trichloroethene	BDL	1.0	ug/l	8260B	05/25/09	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	05/25/09	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	05/25/09	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/25/09	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/25/09	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/25/09	1
Vinyl chloride	BDL	1.0	ug/l	8260B	05/25/09	1
Xylenes, Total	BDL	3.0	ug/l	8260B	05/25/09	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	05/25/09	1
Dibromofluoromethane	100.		% Rec.	8260B	05/25/09	1
4-Bromofluorobenzene	95.0		% Rec.	8260B	05/25/09	1
Base/Neutral Extractables						
Acenaphthene	BDL	10.	ug/l	8270C	05/28/09	1
Acenaphthylene	BDL	10.	ug/l	8270C	05/28/09	1
Anthracene	BDL	10.	ug/l	8270C	05/28/09	1
Benzidine	BDL	50.	ug/l	8270C	05/28/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 01,2009

ESC Sample # : L404176-02

Date Received : May 23, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : B-7

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 16:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(a)anthracene	BDL	10.	ug/l	8270C	05/28/09	1
Benzo(b)fluoranthene	BDL	10.	ug/l	8270C	05/28/09	1
Benzo(k)fluoranthene	BDL	10.	ug/l	8270C	05/28/09	1
Benzo(g,h,i)perylene	BDL	10.	ug/l	8270C	05/28/09	1
Benzo(a)pyrene	BDL	10.	ug/l	8270C	05/28/09	1
Bis(2-chlorethoxy)methane	BDL	10.	ug/l	8270C	05/28/09	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	8270C	05/28/09	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	8270C	05/28/09	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	8270C	05/28/09	1
2-Chloronaphthalene	BDL	10.	ug/l	8270C	05/28/09	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	8270C	05/28/09	1
Chrysene	BDL	10.	ug/l	8270C	05/28/09	1
Dibenz(a,h)anthracene	BDL	10.	ug/l	8270C	05/28/09	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	8270C	05/28/09	1
2,4-Dinitrotoluene	BDL	10.	ug/l	8270C	05/28/09	1
2,6-Dinitrotoluene	BDL	10.	ug/l	8270C	05/28/09	1
Fluoranthene	BDL	10.	ug/l	8270C	05/28/09	1
Fluorene	BDL	10.	ug/l	8270C	05/28/09	1
Hexachlorobenzene	BDL	10.	ug/l	8270C	05/28/09	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	8270C	05/28/09	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	8270C	05/28/09	1
Hexachloroethane	BDL	10.	ug/l	8270C	05/28/09	1
Indeno(1,2,3-cd)pyrene	BDL	10.	ug/l	8270C	05/28/09	1
Isophorone	BDL	10.	ug/l	8270C	05/28/09	1
Naphthalene	BDL	10.	ug/l	8270C	05/28/09	1
Nitrobenzene	BDL	10.	ug/l	8270C	05/28/09	1
n-Nitrosodimethylamine	BDL	50.	ug/l	8270C	05/28/09	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	8270C	05/28/09	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	8270C	05/28/09	1
Phenanthrene	BDL	10.	ug/l	8270C	05/28/09	1
Benzylbutyl phthalate	BDL	10.	ug/l	8270C	05/28/09	1
Bis(2-ethylhexyl)phthalate	BDL	10.	ug/l	8270C	05/28/09	1
Di-n-butyl phthalate	BDL	10.	ug/l	8270C	05/28/09	1
Diethyl phthalate	BDL	10.	ug/l	8270C	05/28/09	1
Dimethyl phthalate	BDL	10.	ug/l	8270C	05/28/09	1
Di-n-octyl phthalate	BDL	10.	ug/l	8270C	05/28/09	1
Pyrene	BDL	10.	ug/l	8270C	05/28/09	1
1,2,4-Trichlorobenzene	BDL	10.	ug/l	8270C	05/28/09	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	8270C	05/28/09	1
2-Chlorophenol	BDL	10.	ug/l	8270C	05/28/09	1
2,4-Dichlorophenol	BDL	10.	ug/l	8270C	05/28/09	1
2,4-Dimethylphenol	BDL	10.	ug/l	8270C	05/28/09	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	8270C	05/28/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 01,2009

ESC Sample # : L404176-02

Date Received : May 23, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-7

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 16:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2,4-Dinitrophenol	BDL	10.	ug/l	8270C	05/28/09	1
2-Nitrophenol	BDL	10.	ug/l	8270C	05/28/09	1
4-Nitrophenol	BDL	10.	ug/l	8270C	05/28/09	1
Pentachlorophenol	BDL	10.	ug/l	8270C	05/28/09	1
Phenol	BDL	10.	ug/l	8270C	05/28/09	1
2,4,6-Trichlorophenol	BDL	10.	ug/l	8270C	05/28/09	1
Surrogate Recovery						
2-Fluorophenol	19.6		% Rec.	8270C	05/28/09	1
Phenol-d5	13.0		% Rec.	8270C	05/28/09	1
Nitrobenzene-d5	19.3		% Rec.	8270C	05/28/09	1
2-Fluorobiphenyl	38.4		% Rec.	8270C	05/28/09	1
2,4,6-Tribromophenol	62.8		% Rec.	8270C	05/28/09	1
p-Terphenyl-d14	81.5		% Rec.	8270C	05/28/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

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Reported: 06/01/09 16:12 Printed: 06/01/09 16:49

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 01,2009

ESC Sample # : L404176-03

Date Received : May 23, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : RP-1

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/22/09 07:35

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	50.3		%	2540G	05/30/09	1
Mercury	0.12	0.040	mg/kg	7471	05/26/09	1
Arsenic	13.	2.0	mg/kg	6010B	05/29/09	1
Barium	63.	0.50	mg/kg	6010B	05/29/09	1
Cadmium	1.8	0.50	mg/kg	6010B	05/29/09	1
Chromium	80.	0.99	mg/kg	6010B	05/29/09	1
Lead	160	0.50	mg/kg	6010B	05/29/09	1
Selenium	BDL	2.0	mg/kg	6010B	05/29/09	1
Silver	1.8	0.99	mg/kg	6010B	05/29/09	1
Volatile Organics						
Acetone	0.14	0.11	mg/kg	8260B	05/27/09	1.14
Acrylonitrile	BDL	0.023	mg/kg	8260B	05/27/09	1.14
Benzene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
Bromobenzene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
Bromodichloromethane	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
Bromoform	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
Bromomethane	BDL	0.011	mg/kg	8260B	05/27/09	1.14
n-Butylbenzene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
sec-Butylbenzene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
tert-Butylbenzene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
Carbon tetrachloride	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
Chlorobenzene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
Chlorodibromomethane	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
Chloroethane	BDL	0.011	mg/kg	8260B	05/27/09	1.14
2-Chloroethyl vinyl ether	BDL	0.11	mg/kg	8260B	05/27/09	1.14
Chloroform	BDL	0.011	mg/kg	8260B	05/27/09	1.14
Chloromethane	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
2-Chlorotoluene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
4-Chlorotoluene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
1,2-Dibromo-3-Chloropropane	BDL	0.011	mg/kg	8260B	05/27/09	1.14
1,2-Dibromoethane	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
Dibromomethane	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
1,2-Dichlorobenzene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
1,3-Dichlorobenzene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
1,4-Dichlorobenzene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
Dichlorodifluoromethane	BDL	0.011	mg/kg	8260B	05/27/09	1.14
1,1-Dichloroethane	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
1,2-Dichloroethane	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
1,1-Dichloroethene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
cis-1,2-Dichloroethene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
trans-1,2-Dichloroethene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
L404176-03 (SV8270PAHSIM) - Dilution due to matrix

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Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 01,2009

ESC Sample # : L404176-03

Date Received : May 23, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : RP-1

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/22/09 07:35

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dichloropropane	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
1,1-Dichloropropene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
1,3-Dichloropropane	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
cis-1,3-Dichloropropene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
trans-1,3-Dichloropropene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
2,2-Dichloropropane	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
Di-isopropyl ether	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
Ethylbenzene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
Hexachloro-1,3-Butadiene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
Isopropylbenzene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
p-Isopropyltoluene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
2-Butanone (MEK)	BDL	0.023	mg/kg	8260B	05/27/09	1.14
Methylene Chloride	BDL	0.011	mg/kg	8260B	05/27/09	1.14
4-Methyl-2-pentanone (MIBK)	BDL	0.023	mg/kg	8260B	05/27/09	1.14
Methyl tert-butyl ether	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
Naphthalene	BDL	0.011	mg/kg	8260B	05/27/09	1.14
n-Propylbenzene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
Styrene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
1,1,1,2-Tetrachloroethane	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
1,1,2,2-Tetrachloroethane	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
Tetrachloroethene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
Toluene	BDL	0.011	mg/kg	8260B	05/27/09	1.14
1,2,3-Trichlorobenzene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
1,2,4-Trichlorobenzene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
1,1,1-Trichloroethane	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
1,1,2-Trichloroethane	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
Trichloroethene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
Trichlorofluoromethane	BDL	0.011	mg/kg	8260B	05/27/09	1.14
1,2,3-Trichloropropane	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
1,2,4-Trimethylbenzene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
1,3,5-Trimethylbenzene	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
Vinyl chloride	BDL	0.0023	mg/kg	8260B	05/27/09	1.14
Xylenes, Total	BDL	0.0068	mg/kg	8260B	05/27/09	1.14
Surrogate Recovery						
Toluene-d8	99.0		% Rec.	8260B	05/27/09	1.14
Dibromofluoromethane	96.1		% Rec.	8260B	05/27/09	1.14
4-Bromofluorobenzene	91.9		% Rec.	8260B	05/27/09	1.14
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.12	mg/kg	8270C-SIM	05/30/09	10
Acenaphthene	BDL	0.12	mg/kg	8270C-SIM	05/30/09	10
Acenaphthylene	BDL	0.12	mg/kg	8270C-SIM	05/30/09	10
Benzo(a)anthracene	BDL	0.12	mg/kg	8270C-SIM	05/30/09	10

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
L404176-03 (SV8270PAHSIM) - Dilution due to matrix

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Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 01,2009

ESC Sample # : L404176-03

Date Received : May 23, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : RP-1

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/22/09 07:35

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Benzo(a)pyrene	BDL	0.12	mg/kg	8270C-SIM	05/30/09	10
Benzo(b)fluoranthene	BDL	0.12	mg/kg	8270C-SIM	05/30/09	10
Benzo(g,h,i)perylene	BDL	0.12	mg/kg	8270C-SIM	05/30/09	10
Benzo(k)fluoranthene	BDL	0.12	mg/kg	8270C-SIM	05/30/09	10
Chrysene	BDL	0.12	mg/kg	8270C-SIM	05/30/09	10
Dibenz(a,h)anthracene	BDL	0.12	mg/kg	8270C-SIM	05/30/09	10
Fluoranthene	BDL	0.12	mg/kg	8270C-SIM	05/30/09	10
Fluorene	BDL	0.12	mg/kg	8270C-SIM	05/30/09	10
Indeno(1,2,3-cd)pyrene	BDL	0.12	mg/kg	8270C-SIM	05/30/09	10
Naphthalene	BDL	0.12	mg/kg	8270C-SIM	05/30/09	10
Phenanthrene	BDL	0.12	mg/kg	8270C-SIM	05/30/09	10
Pyrene	BDL	0.12	mg/kg	8270C-SIM	05/30/09	10
1-Methylnaphthalene	BDL	0.12	mg/kg	8270C-SIM	05/30/09	10
2-Methylnaphthalene	BDL	0.12	mg/kg	8270C-SIM	05/30/09	10
2-Chloronaphthalene	BDL	0.12	mg/kg	8270C-SIM	05/30/09	10
Surrogate Recovery						
Nitrobenzene-d5	120.		% Rec.	8270C-SIM	05/30/09	10
2-Fluorobiphenyl	66.3		% Rec.	8270C-SIM	05/30/09	10
p-Terphenyl-d14	104.		% Rec.	8270C-SIM	05/30/09	10

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

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Reported: 06/01/09 16:12 Printed: 06/01/09 16:49
L404176-03 (SV8270PAHSIM) - Dilution due to matrix

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Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 01,2009

ESC Sample # : L404176-04

Date Received : May 23, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : RP-2

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/22/09 08:05

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	71.6		%	2540G	05/30/09	1
Mercury	0.037	0.028	mg/kg	7471	05/26/09	1
Arsenic	3.4	1.4	mg/kg	6010B	05/29/09	1
Barium	52.	0.35	mg/kg	6010B	05/29/09	1
Cadmium	0.59	0.35	mg/kg	6010B	05/29/09	1
Chromium	47.	0.70	mg/kg	6010B	05/29/09	1
Lead	17.	0.35	mg/kg	6010B	05/29/09	1
Selenium	BDL	2.8	mg/kg	6010B	05/29/09	2
Silver	1.2	0.70	mg/kg	6010B	05/29/09	1
Volatile Organics						
Acetone	BDL	0.072	mg/kg	8260B	05/27/09	1.03
Acrylonitrile	BDL	0.014	mg/kg	8260B	05/27/09	1.03
Benzene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
Bromobenzene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
Bromodichloromethane	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
Bromoform	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
Bromomethane	BDL	0.0072	mg/kg	8260B	05/27/09	1.03
n-Butylbenzene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
sec-Butylbenzene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
tert-Butylbenzene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
Carbon tetrachloride	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
Chlorobenzene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
Chlorodibromomethane	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
Chloroethane	BDL	0.0072	mg/kg	8260B	05/27/09	1.03
2-Chloroethyl vinyl ether	BDL	0.072	mg/kg	8260B	05/27/09	1.03
Chloroform	BDL	0.0072	mg/kg	8260B	05/27/09	1.03
Chloromethane	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
2-Chlorotoluene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
4-Chlorotoluene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
1,2-Dibromo-3-Chloropropane	BDL	0.0072	mg/kg	8260B	05/27/09	1.03
1,2-Dibromoethane	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
Dibromomethane	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
1,2-Dichlorobenzene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
1,3-Dichlorobenzene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
1,4-Dichlorobenzene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
Dichlorodifluoromethane	BDL	0.0072	mg/kg	8260B	05/27/09	1.03
1,1-Dichloroethane	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
1,2-Dichloroethane	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
1,1-Dichloroethene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
cis-1,2-Dichloroethene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
trans-1,2-Dichloroethene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted

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Mt. Juliet, TN 37122
(615) 758-5858
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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 01,2009

ESC Sample # : L404176-04

Date Received : May 23, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : RP-2

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/22/09 08:05

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dichloropropane	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
1,1-Dichloropropene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
1,3-Dichloropropane	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
cis-1,3-Dichloropropene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
trans-1,3-Dichloropropene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
2,2-Dichloropropane	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
Di-isopropyl ether	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
Ethylbenzene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
Hexachloro-1,3-Butadiene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
Isopropylbenzene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
p-Isopropyltoluene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
2-Butanone (MEK)	BDL	0.014	mg/kg	8260B	05/27/09	1.03
Methylene Chloride	BDL	0.0072	mg/kg	8260B	05/27/09	1.03
4-Methyl-2-pentanone (MIBK)	BDL	0.014	mg/kg	8260B	05/27/09	1.03
Methyl tert-butyl ether	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
Naphthalene	BDL	0.0072	mg/kg	8260B	05/27/09	1.03
n-Propylbenzene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
Styrene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
1,1,1,2-Tetrachloroethane	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
1,1,2,2-Tetrachloroethane	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
Tetrachloroethene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
Toluene	BDL	0.0072	mg/kg	8260B	05/27/09	1.03
1,2,3-Trichlorobenzene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
1,2,4-Trichlorobenzene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
1,1,1-Trichloroethane	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
1,1,2-Trichloroethane	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
Trichloroethene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
Trichlorofluoromethane	BDL	0.0072	mg/kg	8260B	05/27/09	1.03
1,2,3-Trichloropropane	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
1,2,4-Trimethylbenzene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
1,3,5-Trimethylbenzene	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
Vinyl chloride	BDL	0.0014	mg/kg	8260B	05/27/09	1.03
Xylenes, Total	BDL	0.0043	mg/kg	8260B	05/27/09	1.03
Surrogate Recovery						
Toluene-d8	98.8		% Rec.	8260B	05/27/09	1.03
Dibromofluoromethane	96.4		% Rec.	8260B	05/27/09	1.03
4-Bromofluorobenzene	94.3		% Rec.	8260B	05/27/09	1.03
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0084	mg/kg	8270C-SIM	05/28/09	1
Acenaphthene	BDL	0.0084	mg/kg	8270C-SIM	05/28/09	1
Acenaphthylene	BDL	0.0084	mg/kg	8270C-SIM	05/28/09	1
Benzo(a)anthracene	BDL	0.0084	mg/kg	8270C-SIM	05/28/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted

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Est. 1970

REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 01,2009

ESC Sample # : L404176-04

Date Received : May 23, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : RP-2

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/22/09 08:05

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Benzo(a)pyrene	BDL	0.0084	mg/kg	8270C-SIM	05/28/09	1
Benzo(b)fluoranthene	BDL	0.0084	mg/kg	8270C-SIM	05/28/09	1
Benzo(g,h,i)perylene	BDL	0.0084	mg/kg	8270C-SIM	05/28/09	1
Benzo(k)fluoranthene	BDL	0.0084	mg/kg	8270C-SIM	05/28/09	1
Chrysene	BDL	0.0084	mg/kg	8270C-SIM	05/28/09	1
Dibenz(a,h)anthracene	BDL	0.0084	mg/kg	8270C-SIM	05/28/09	1
Fluoranthene	BDL	0.0084	mg/kg	8270C-SIM	05/28/09	1
Fluorene	BDL	0.0084	mg/kg	8270C-SIM	05/28/09	1
Indeno(1,2,3-cd)pyrene	BDL	0.0084	mg/kg	8270C-SIM	05/28/09	1
Naphthalene	BDL	0.0084	mg/kg	8270C-SIM	05/28/09	1
Phenanthrene	BDL	0.0084	mg/kg	8270C-SIM	05/28/09	1
Pyrene	BDL	0.0084	mg/kg	8270C-SIM	05/28/09	1
1-Methylnaphthalene	BDL	0.0084	mg/kg	8270C-SIM	05/28/09	1
2-Methylnaphthalene	BDL	0.0084	mg/kg	8270C-SIM	05/28/09	1
2-Chloronaphthalene	BDL	0.0084	mg/kg	8270C-SIM	05/28/09	1
Surrogate Recovery						
Nitrobenzene-d5	74.8		% Rec.	8270C-SIM	05/28/09	1
2-Fluorobiphenyl	60.4		% Rec.	8270C-SIM	05/28/09	1
p-Terphenyl-d14	72.6		% Rec.	8270C-SIM	05/28/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 06/01/09 16:12 Printed: 06/01/09 16:49

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 01,2009

ESC Sample # : L404176-05

Date Received : May 23, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : RP-3

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/22/09 08:45

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	90.0		%	2540G	05/30/09	1
Mercury	0.025	0.022	mg/kg	7471	05/26/09	1
Arsenic	2.7	1.1	mg/kg	6010B	05/29/09	1
Barium	56.	0.28	mg/kg	6010B	05/29/09	1
Cadmium	0.49	0.28	mg/kg	6010B	05/29/09	1
Chromium	42.	0.56	mg/kg	6010B	05/29/09	1
Lead	10.	0.28	mg/kg	6010B	05/29/09	1
Selenium	BDL	1.1	mg/kg	6010B	05/29/09	1
Silver	1.2	0.56	mg/kg	6010B	05/29/09	1
Volatile Organics						
Acetone	0.056	0.056	mg/kg	8260B	05/27/09	1
Acrylonitrile	BDL	0.011	mg/kg	8260B	05/27/09	1
Benzene	BDL	0.0011	mg/kg	8260B	05/27/09	1
Bromobenzene	BDL	0.0011	mg/kg	8260B	05/27/09	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	05/27/09	1
Bromoform	BDL	0.0011	mg/kg	8260B	05/27/09	1
Bromomethane	BDL	0.0056	mg/kg	8260B	05/27/09	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	05/27/09	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	05/27/09	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	05/27/09	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	05/27/09	1
Chlorobenzene	BDL	0.0011	mg/kg	8260B	05/27/09	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	05/27/09	1
Chloroethane	BDL	0.0056	mg/kg	8260B	05/27/09	1
2-Chloroethyl vinyl ether	BDL	0.056	mg/kg	8260B	05/27/09	1
Chloroform	BDL	0.0056	mg/kg	8260B	05/27/09	1
Chloromethane	BDL	0.0011	mg/kg	8260B	05/27/09	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	05/27/09	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	05/27/09	1
1,2-Dibromo-3-Chloropropane	BDL	0.0056	mg/kg	8260B	05/27/09	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	05/27/09	1
Dibromomethane	BDL	0.0011	mg/kg	8260B	05/27/09	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	05/27/09	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	05/27/09	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	05/27/09	1
Dichlorodifluoromethane	BDL	0.0056	mg/kg	8260B	05/27/09	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	05/27/09	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	05/27/09	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	05/27/09	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	05/27/09	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	05/27/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 01,2009

ESC Sample # : L404176-05

Date Received : May 23, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : RP-3

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/22/09 08:45

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	05/27/09	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	05/27/09	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	05/27/09	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	05/27/09	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	05/27/09	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	05/27/09	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	05/27/09	1
Ethylbenzene	BDL	0.0011	mg/kg	8260B	05/27/09	1
Hexachloro-1,3-Butadiene	BDL	0.0011	mg/kg	8260B	05/27/09	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	05/27/09	1
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	05/27/09	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260B	05/27/09	1
Methylene Chloride	BDL	0.0056	mg/kg	8260B	05/27/09	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	05/27/09	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	05/27/09	1
Naphthalene	BDL	0.0056	mg/kg	8260B	05/27/09	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	05/27/09	1
Styrene	BDL	0.0011	mg/kg	8260B	05/27/09	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	05/27/09	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	05/27/09	1
Tetrachloroethene	BDL	0.0011	mg/kg	8260B	05/27/09	1
Toluene	BDL	0.0056	mg/kg	8260B	05/27/09	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	05/27/09	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	05/27/09	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	05/27/09	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	05/27/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0011	mg/kg	8260B	05/27/09	1
Trichloroethene	BDL	0.0011	mg/kg	8260B	05/27/09	1
Trichlorofluoromethane	BDL	0.0056	mg/kg	8260B	05/27/09	1
1,2,3-Trichloropropane	BDL	0.0011	mg/kg	8260B	05/27/09	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	05/27/09	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	05/27/09	1
Vinyl chloride	BDL	0.0011	mg/kg	8260B	05/27/09	1
Xylenes, Total	BDL	0.0033	mg/kg	8260B	05/27/09	1
Surrogate Recovery						
Toluene-d8	99.3		% Rec.	8260B	05/27/09	1
Dibromofluoromethane	97.6		% Rec.	8260B	05/27/09	1
4-Bromofluorobenzene	98.0		% Rec.	8260B	05/27/09	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0067	mg/kg	8270C-SIM	05/28/09	1
Acenaphthene	BDL	0.0067	mg/kg	8270C-SIM	05/28/09	1
Acenaphthylene	BDL	0.0067	mg/kg	8270C-SIM	05/28/09	1
Benzo(a)anthracene	BDL	0.0067	mg/kg	8270C-SIM	05/28/09	1

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7730 SW Mohawk Street
Tualatin, OR 97062

June 01,2009

ESC Sample # : L404176-05

Date Received : May 23, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : RP-3

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/22/09 08:45

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Benzo(a)pyrene	BDL	0.0067	mg/kg	8270C-SIM	05/28/09	1
Benzo(b)fluoranthene	BDL	0.0067	mg/kg	8270C-SIM	05/28/09	1
Benzo(g,h,i)perylene	BDL	0.0067	mg/kg	8270C-SIM	05/28/09	1
Benzo(k)fluoranthene	BDL	0.0067	mg/kg	8270C-SIM	05/28/09	1
Chrysene	BDL	0.0067	mg/kg	8270C-SIM	05/28/09	1
Dibenz(a,h)anthracene	BDL	0.0067	mg/kg	8270C-SIM	05/28/09	1
Fluoranthene	BDL	0.0067	mg/kg	8270C-SIM	05/28/09	1
Fluorene	BDL	0.0067	mg/kg	8270C-SIM	05/28/09	1
Indeno(1,2,3-cd)pyrene	BDL	0.0067	mg/kg	8270C-SIM	05/28/09	1
Naphthalene	BDL	0.0067	mg/kg	8270C-SIM	05/28/09	1
Phenanthrene	BDL	0.0067	mg/kg	8270C-SIM	05/28/09	1
Pyrene	BDL	0.0067	mg/kg	8270C-SIM	05/28/09	1
1-Methylnaphthalene	BDL	0.0067	mg/kg	8270C-SIM	05/28/09	1
2-Methylnaphthalene	BDL	0.0067	mg/kg	8270C-SIM	05/28/09	1
2-Chloronaphthalene	BDL	0.0067	mg/kg	8270C-SIM	05/28/09	1
Surrogate Recovery						
Nitrobenzene-d5	59.2		% Rec.	8270C-SIM	05/28/09	1
2-Fluorobiphenyl	52.3		% Rec.	8270C-SIM	05/28/09	1
p-Terphenyl-d14	56.9		% Rec.	8270C-SIM	05/28/09	1

Results listed are dry weight basis.
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June 01,2009

ESC Sample # : L404176-06

Date Received : May 23, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : TB-4

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/22/09 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	05/25/09	1
Acrolein	BDL	50.	ug/l	8260B	05/25/09	1
Acrylonitrile	BDL	10.	ug/l	8260B	05/25/09	1
Benzene	BDL	1.0	ug/l	8260B	05/25/09	1
Bromobenzene	BDL	1.0	ug/l	8260B	05/25/09	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	05/25/09	1
Bromoform	BDL	1.0	ug/l	8260B	05/25/09	1
Bromomethane	BDL	5.0	ug/l	8260B	05/25/09	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	05/25/09	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	05/25/09	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	05/25/09	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	05/25/09	1
Chlorobenzene	BDL	1.0	ug/l	8260B	05/25/09	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	05/25/09	1
Chloroethane	BDL	5.0	ug/l	8260B	05/25/09	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	05/25/09	1
Chloroform	BDL	5.0	ug/l	8260B	05/25/09	1
Chloromethane	BDL	2.5	ug/l	8260B	05/25/09	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	05/25/09	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	05/25/09	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	05/25/09	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	05/25/09	1
Dibromomethane	BDL	1.0	ug/l	8260B	05/25/09	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/25/09	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/25/09	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/25/09	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	05/25/09	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	05/25/09	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	05/25/09	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	05/25/09	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/25/09	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/25/09	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/25/09	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	05/25/09	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	05/25/09	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/25/09	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/25/09	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/25/09	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	05/25/09	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/25/09	1
Hexachloro-1,3-Butadiene	BDL	1.0	ug/l	8260B	05/25/09	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	05/25/09	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	05/25/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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June 01,2009

ESC Sample # : L404176-06

Date Received : May 23, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA
Site ID : ARLINGTON, WA

Sample ID : TB-4

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/22/09 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	10.	ug/l	8260B	05/25/09	1
Methylene Chloride	BDL	5.0	ug/l	8260B	05/25/09	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	05/25/09	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	05/25/09	1
Naphthalene	BDL	5.0	ug/l	8260B	05/25/09	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	05/25/09	1
Styrene	BDL	1.0	ug/l	8260B	05/25/09	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/25/09	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/25/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	1.0	ug/l	8260B	05/25/09	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	05/25/09	1
Toluene	BDL	5.0	ug/l	8260B	05/25/09	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/25/09	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/25/09	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	05/25/09	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	05/25/09	1
Trichloroethene	BDL	1.0	ug/l	8260B	05/25/09	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	05/25/09	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	05/25/09	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/25/09	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/25/09	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/25/09	1
Vinyl chloride	BDL	1.0	ug/l	8260B	05/25/09	1
Xylenes, Total	BDL	3.0	ug/l	8260B	05/25/09	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	05/25/09	1
Dibromofluoromethane	98.2		% Rec.	8260B	05/25/09	1
4-Bromofluorobenzene	95.1		% Rec.	8260B	05/25/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

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Reported: 06/01/09 16:12 Printed: 06/01/09 16:49

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L404176-01	WG423772	SAMP	Selenium	R762286	O
L404176-02	WG423304	SAMP	2-Chloroethyl vinyl ether	R754546	J3
	WG423641	SAMP	4-Chloro-3-methylphenol	R760707	J3
L404176-03	WG423417	SAMP	Acetone	R754868	J3
	WG423417	SAMP	Acrylonitrile	R754868	J3
	WG423440	SAMP	Anthracene	R755726	O
	WG423440	SAMP	Acenaphthene	R755726	O
	WG423440	SAMP	Acenaphthylene	R755726	O
	WG423440	SAMP	Benzo(a)anthracene	R755726	O
	WG423440	SAMP	Benzo(a)pyrene	R755726	O
	WG423440	SAMP	Benzo(b)fluoranthene	R755726	O
	WG423440	SAMP	Benzo(g,h,i)perylene	R755726	O
	WG423440	SAMP	Benzo(k)fluoranthene	R755726	O
	WG423440	SAMP	Chrysene	R755726	O
	WG423440	SAMP	Dibenz(a,h)anthracene	R755726	O
	WG423440	SAMP	Fluoranthene	R755726	O
	WG423440	SAMP	Fluorene	R755726	O
	WG423440	SAMP	Indeno(1,2,3-cd)pyrene	R755726	O
	WG423440	SAMP	Naphthalene	R755726	O
	WG423440	SAMP	Phenanthrene	R755726	O
	WG423440	SAMP	Pyrene	R755726	O
	WG423440	SAMP	1-Methylnaphthalene	R755726	O
	WG423440	SAMP	2-Methylnaphthalene	R755726	O
	WG423440	SAMP	2-Chloronaphthalene	R755726	O
L404176-04	WG423417	SAMP	Acetone	R754868	J3
	WG423417	SAMP	Acrylonitrile	R754868	J3
	WG423772	SAMP	Selenium	R762286	O
L404176-05	WG423417	SAMP	Acetone	R754868	J3
	WG423417	SAMP	Acrylonitrile	R754868	J3
L404176-06	WG423304	SAMP	2-Chloroethyl vinyl ether	R754546	J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
06/01/09 at 16:49:16

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L404176-01 Account: SECORTOR Received: 05/23/09 09:00 Due Date: 06/01/09 00:00 RPT Date: 06/01/09 16:12

Sample: L404176-02 Account: SECORTOR Received: 05/23/09 09:00 Due Date: 06/01/09 00:00 RPT Date: 06/01/09 16:12

Sample: L404176-03 Account: SECORTOR Received: 05/23/09 09:00 Due Date: 06/01/09 00:00 RPT Date: 06/01/09 16:12

Sample: L404176-04 Account: SECORTOR Received: 05/23/09 09:00 Due Date: 06/01/09 00:00 RPT Date: 06/01/09 16:12

Sample: L404176-05 Account: SECORTOR Received: 05/23/09 09:00 Due Date: 06/01/09 00:00 RPT Date: 06/01/09 16:12

Sample: L404176-06 Account: SECORTOR Received: 05/23/09 09:00 Due Date: 06/01/09 00:00 RPT Date: 06/01/09 16:12

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404176

June 01, 2009

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Mercury	< .0002	mg/l			WG423232	05/26/09 11:27
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG423304	05/25/09 11:58
1,1,1-Trichloroethane	< .001	mg/l			WG423304	05/25/09 11:58
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG423304	05/25/09 11:58
1,1,2-Trichloroethane	< .001	mg/l			WG423304	05/25/09 11:58
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/l			WG423304	05/25/09 11:58
1,1-Dichloroethane	< .001	mg/l			WG423304	05/25/09 11:58
1,1-Dichloroethene	< .001	mg/l			WG423304	05/25/09 11:58
1,1-Dichloropropene	< .001	mg/l			WG423304	05/25/09 11:58
1,2,3-Trichlorobenzene	< .001	mg/l			WG423304	05/25/09 11:58
1,2,3-Trichloropropane	< .001	mg/l			WG423304	05/25/09 11:58
1,2,3-Trimethylbenzene	< .001	mg/l			WG423304	05/25/09 11:58
1,2,4-Trichlorobenzene	< .001	mg/l			WG423304	05/25/09 11:58
1,2,4-Trimethylbenzene	< .001	mg/l			WG423304	05/25/09 11:58
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG423304	05/25/09 11:58
1,2-Dibromoethane	< .001	mg/l			WG423304	05/25/09 11:58
1,2-Dichlorobenzene	< .001	mg/l			WG423304	05/25/09 11:58
1,2-Dichloroethane	< .001	mg/l			WG423304	05/25/09 11:58
1,2-Dichloropropane	< .001	mg/l			WG423304	05/25/09 11:58
1,3,5-Trimethylbenzene	< .001	mg/l			WG423304	05/25/09 11:58
1,3-Dichlorobenzene	< .001	mg/l			WG423304	05/25/09 11:58
1,3-Dichloropropane	< .001	mg/l			WG423304	05/25/09 11:58
1,4-Dichlorobenzene	< .001	mg/l			WG423304	05/25/09 11:58
2,2-Dichloropropane	< .001	mg/l			WG423304	05/25/09 11:58
2-Butanone (MEK)	< .01	mg/l			WG423304	05/25/09 11:58
2-Chloroethyl vinyl ether	< .001	mg/l			WG423304	05/25/09 11:58
2-Chlorotoluene	< .001	mg/l			WG423304	05/25/09 11:58
4-Chlorotoluene	< .001	mg/l			WG423304	05/25/09 11:58
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG423304	05/25/09 11:58
Acetone	< .05	mg/l			WG423304	05/25/09 11:58
Acrolein	< .05	mg/l			WG423304	05/25/09 11:58
Acrylonitrile	< .01	mg/l			WG423304	05/25/09 11:58
Benzene	< .001	mg/l			WG423304	05/25/09 11:58
Bromobenzene	< .001	mg/l			WG423304	05/25/09 11:58
Bromodichloromethane	< .001	mg/l			WG423304	05/25/09 11:58
Bromoform	< .001	mg/l			WG423304	05/25/09 11:58
Bromomethane	< .005	mg/l			WG423304	05/25/09 11:58
Carbon tetrachloride	< .001	mg/l			WG423304	05/25/09 11:58
Chlorobenzene	< .001	mg/l			WG423304	05/25/09 11:58
Chlorodibromomethane	< .001	mg/l			WG423304	05/25/09 11:58
Chloroethane	< .001	mg/l			WG423304	05/25/09 11:58
Chloroform	< .005	mg/l			WG423304	05/25/09 11:58
Chloromethane	< .001	mg/l			WG423304	05/25/09 11:58
cis-1,2-Dichloroethene	< .001	mg/l			WG423304	05/25/09 11:58
cis-1,3-Dichloropropene	< .001	mg/l			WG423304	05/25/09 11:58
Di-isopropyl ether	< .001	mg/l			WG423304	05/25/09 11:58
Dibromomethane	< .001	mg/l			WG423304	05/25/09 11:58
Dichlorodifluoromethane	< .005	mg/l			WG423304	05/25/09 11:58
Ethylbenzene	< .001	mg/l			WG423304	05/25/09 11:58
Hexachloro-1,3-Butadiene	< .001	mg/l			WG423304	05/25/09 11:58
Isopropylbenzene	< .001	mg/l			WG423304	05/25/09 11:58
Methyl tert-butyl ether	< .001	mg/l			WG423304	05/25/09 11:58
Methylene Chloride	< .005	mg/l			WG423304	05/25/09 11:58
n-Butylbenzene	< .001	mg/l			WG423304	05/25/09 11:58
n-Propylbenzene	< .001	mg/l			WG423304	05/25/09 11:58
Naphthalene	< .005	mg/l			WG423304	05/25/09 11:58
p-Isopropyltoluene	< .001	mg/l			WG423304	05/25/09 11:58

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Quality Assurance Report
Level II

L404176

June 01, 2009

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
sec-Butylbenzene	< .001	mg/l			WG423304	05/25/09 11:58
Styrene	< .001	mg/l			WG423304	05/25/09 11:58
tert-Butylbenzene	< .001	mg/l			WG423304	05/25/09 11:58
Tetrachloroethene	< .001	mg/l			WG423304	05/25/09 11:58
Toluene	< .005	mg/l			WG423304	05/25/09 11:58
trans-1,2-Dichloroethene	< .001	mg/l			WG423304	05/25/09 11:58
trans-1,3-Dichloropropene	< .001	mg/l			WG423304	05/25/09 11:58
Trichloroethene	< .001	mg/l			WG423304	05/25/09 11:58
Trichlorofluoromethane	< .005	mg/l			WG423304	05/25/09 11:58
Vinyl chloride	< .001	mg/l			WG423304	05/25/09 11:58
4-Bromofluorobenzene		% Rec.	95.37	75-128	WG423304	05/25/09 11:58
Dibromofluoromethane		% Rec.	96.52	79-125	WG423304	05/25/09 11:58
Toluene-d8		% Rec.	103.1	87-114	WG423304	05/25/09 11:58
Mercury	< .02	mg/kg			WG423237	05/26/09 20:08
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG423417	05/27/09 00:13
1,1,1-Trichloroethane	< .001	mg/kg			WG423417	05/27/09 00:13
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG423417	05/27/09 00:13
1,1,2-Trichloroethane	< .001	mg/kg			WG423417	05/27/09 00:13
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/kg			WG423417	05/27/09 00:13
1,1-Dichloroethane	< .001	mg/kg			WG423417	05/27/09 00:13
1,1-Dichloroethene	< .001	mg/kg			WG423417	05/27/09 00:13
1,1-Dichloropropene	< .001	mg/kg			WG423417	05/27/09 00:13
1,2,3-Trichlorobenzene	< .001	mg/kg			WG423417	05/27/09 00:13
1,2,3-Trichloropropane	< .001	mg/kg			WG423417	05/27/09 00:13
1,2,4-Trichlorobenzene	< .001	mg/kg			WG423417	05/27/09 00:13
1,2,4-Trimethylbenzene	< .001	mg/kg			WG423417	05/27/09 00:13
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG423417	05/27/09 00:13
1,2-Dibromoethane	< .001	mg/kg			WG423417	05/27/09 00:13
1,2-Dichlorobenzene	< .001	mg/kg			WG423417	05/27/09 00:13
1,2-Dichloroethane	< .001	mg/kg			WG423417	05/27/09 00:13
1,2-Dichloropropane	< .001	mg/kg			WG423417	05/27/09 00:13
1,3,5-Trimethylbenzene	< .001	mg/kg			WG423417	05/27/09 00:13
1,3-Dichlorobenzene	< .001	mg/kg			WG423417	05/27/09 00:13
1,3-Dichloropropane	< .001	mg/kg			WG423417	05/27/09 00:13
1,4-Dichlorobenzene	< .001	mg/kg			WG423417	05/27/09 00:13
2,2-Dichloropropane	< .001	mg/kg			WG423417	05/27/09 00:13
2-Butanone (MEK)	< .01	mg/kg			WG423417	05/27/09 00:13
2-Chloroethyl vinyl ether	< .001	mg/kg			WG423417	05/27/09 00:13
2-Chlorotoluene	< .001	mg/kg			WG423417	05/27/09 00:13
4-Chlorotoluene	< .001	mg/kg			WG423417	05/27/09 00:13
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG423417	05/27/09 00:13
Acetone	< .05	mg/kg			WG423417	05/27/09 00:13
Acrylonitrile	< .01	mg/kg			WG423417	05/27/09 00:13
Benzene	< .001	mg/kg			WG423417	05/27/09 00:13
Bromobenzene	< .001	mg/kg			WG423417	05/27/09 00:13
Bromodichloromethane	< .001	mg/kg			WG423417	05/27/09 00:13
Bromoform	< .001	mg/kg			WG423417	05/27/09 00:13
Bromomethane	< .005	mg/kg			WG423417	05/27/09 00:13
Carbon tetrachloride	< .001	mg/kg			WG423417	05/27/09 00:13
Chlorobenzene	< .001	mg/kg			WG423417	05/27/09 00:13
Chlorodibromomethane	< .001	mg/kg			WG423417	05/27/09 00:13
Chloroethane	< .005	mg/kg			WG423417	05/27/09 00:13
Chloroform	< .005	mg/kg			WG423417	05/27/09 00:13
Chloromethane	< .001	mg/kg			WG423417	05/27/09 00:13
cis-1,2-Dichloroethene	< .001	mg/kg			WG423417	05/27/09 00:13

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L404176

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Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
cis-1,3-Dichloropropene	< .001	mg/kg			WG423417	05/27/09 00:13
Di-isopropyl ether	< .001	mg/kg			WG423417	05/27/09 00:13
Dibromomethane	< .001	mg/kg			WG423417	05/27/09 00:13
Dichlorodifluoromethane	< .005	mg/kg			WG423417	05/27/09 00:13
Ethylbenzene	< .001	mg/kg			WG423417	05/27/09 00:13
Hexachloro-1,3-Butadiene	< .001	mg/kg			WG423417	05/27/09 00:13
Isopropylbenzene	< .001	mg/kg			WG423417	05/27/09 00:13
Methyl tert-butyl ether	< .001	mg/kg			WG423417	05/27/09 00:13
Methylene Chloride	< .005	mg/kg			WG423417	05/27/09 00:13
n-Butylbenzene	< .001	mg/kg			WG423417	05/27/09 00:13
n-Propylbenzene	< .001	mg/kg			WG423417	05/27/09 00:13
Naphthalene	< .005	mg/kg			WG423417	05/27/09 00:13
p-Isopropyltoluene	< .001	mg/kg			WG423417	05/27/09 00:13
sec-Butylbenzene	< .001	mg/kg			WG423417	05/27/09 00:13
Styrene	< .001	mg/kg			WG423417	05/27/09 00:13
tert-Butylbenzene	< .001	mg/kg			WG423417	05/27/09 00:13
Tetrachloroethene	< .001	mg/kg			WG423417	05/27/09 00:13
Toluene	< .005	mg/kg			WG423417	05/27/09 00:13
trans-1,2-Dichloroethene	< .001	mg/kg			WG423417	05/27/09 00:13
trans-1,3-Dichloropropene	< .001	mg/kg			WG423417	05/27/09 00:13
Trichloroethene	< .001	mg/kg			WG423417	05/27/09 00:13
Trichlorofluoromethane	< .005	mg/kg			WG423417	05/27/09 00:13
Vinyl chloride	< .001	mg/kg			WG423417	05/27/09 00:13
4-Bromofluorobenzene		% Rec.	97.36	59-140	WG423417	05/27/09 00:13
Dibromofluoromethane		% Rec.	88.33	63-139	WG423417	05/27/09 00:13
Toluene-d8		% Rec.	98.57	84-116	WG423417	05/27/09 00:13
1-Methylnaphthalene	< .33	ppm			WG423440	05/27/09 10:56
2-Chloronaphthalene	< .33	ppm			WG423440	05/27/09 10:56
2-Methylnaphthalene	< .33	ppm			WG423440	05/27/09 10:56
Acenaphthene	< .33	ppm			WG423440	05/27/09 10:56
Acenaphthylene	< .33	ppm			WG423440	05/27/09 10:56
Anthracene	< .33	ppm			WG423440	05/27/09 10:56
Benzo(a)anthracene	< .33	ppm			WG423440	05/27/09 10:56
Benzo(a)pyrene	< .33	ppm			WG423440	05/27/09 10:56
Benzo(b)fluoranthene	< .33	ppm			WG423440	05/27/09 10:56
Benzo(g,h,i)perylene	< .33	ppm			WG423440	05/27/09 10:56
Benzo(k)fluoranthene	< .33	ppm			WG423440	05/27/09 10:56
Chrysene	< .33	ppm			WG423440	05/27/09 10:56
Dibenz(a,h)anthracene	< .33	ppm			WG423440	05/27/09 10:56
Fluoranthene	< .33	ppm			WG423440	05/27/09 10:56
Fluorene	< .33	ppm			WG423440	05/27/09 10:56
Indeno(1,2,3-cd)pyrene	< .33	ppm			WG423440	05/27/09 10:56
Naphthalene	< .33	ppm			WG423440	05/27/09 10:56
Phenanthrene	< .33	ppm			WG423440	05/27/09 10:56
Pyrene	< .33	ppm			WG423440	05/27/09 10:56
2-Fluorobiphenyl		% Rec.	78.40	30-120	WG423440	05/27/09 10:56
Nitrobenzene-d5		% Rec.	84.54	18-119	WG423440	05/27/09 10:56
p-Terphenyl-d14		% Rec.	83.55	23-143	WG423440	05/27/09 10:56
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG423576	05/27/09 12:30
1,1,1-Trichloroethane	< .001	mg/kg			WG423576	05/27/09 12:30
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG423576	05/27/09 12:30
1,1,2-Trichloroethane	< .001	mg/kg			WG423576	05/27/09 12:30
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/kg			WG423576	05/27/09 12:30
1,1-Dichloroethane	< .001	mg/kg			WG423576	05/27/09 12:30
1,1-Dichloroethene	< .001	mg/kg			WG423576	05/27/09 12:30

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Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,1-Dichloropropene	< .001	mg/kg			WG423576	05/27/09 12:30
1,2,3-Trichlorobenzene	< .001	mg/kg			WG423576	05/27/09 12:30
1,2,3-Trichloropropane	< .001	mg/kg			WG423576	05/27/09 12:30
1,2,4-Trichlorobenzene	< .001	mg/kg			WG423576	05/27/09 12:30
1,2,4-Trimethylbenzene	< .001	mg/kg			WG423576	05/27/09 12:30
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG423576	05/27/09 12:30
1,2-Dibromoethane	< .001	mg/kg			WG423576	05/27/09 12:30
1,2-Dichlorobenzene	< .001	mg/kg			WG423576	05/27/09 12:30
1,2-Dichloroethane	< .001	mg/kg			WG423576	05/27/09 12:30
1,2-Dichloropropane	< .001	mg/kg			WG423576	05/27/09 12:30
1,3,5-Trimethylbenzene	< .001	mg/kg			WG423576	05/27/09 12:30
1,3-Dichlorobenzene	< .001	mg/kg			WG423576	05/27/09 12:30
1,3-Dichloropropane	< .001	mg/kg			WG423576	05/27/09 12:30
1,4-Dichlorobenzene	< .001	mg/kg			WG423576	05/27/09 12:30
2,2-Dichloropropane	< .001	mg/kg			WG423576	05/27/09 12:30
2-Butanone (MEK)	< .01	mg/kg			WG423576	05/27/09 12:30
2-Chloroethyl vinyl ether	< .001	mg/kg			WG423576	05/27/09 12:30
2-Chlorotoluene	< .001	mg/kg			WG423576	05/27/09 12:30
4-Chlorotoluene	< .001	mg/kg			WG423576	05/27/09 12:30
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG423576	05/27/09 12:30
Acetone	< .05	mg/kg			WG423576	05/27/09 12:30
Acrylonitrile	< .01	mg/kg			WG423576	05/27/09 12:30
Benzene	< .001	mg/kg			WG423576	05/27/09 12:30
Bromobenzene	< .001	mg/kg			WG423576	05/27/09 12:30
Bromodichloromethane	< .001	mg/kg			WG423576	05/27/09 12:30
Bromoform	< .001	mg/kg			WG423576	05/27/09 12:30
Bromomethane	< .005	mg/kg			WG423576	05/27/09 12:30
Carbon tetrachloride	< .001	mg/kg			WG423576	05/27/09 12:30
Chlorobenzene	< .001	mg/kg			WG423576	05/27/09 12:30
Chlorodibromomethane	< .001	mg/kg			WG423576	05/27/09 12:30
Chloroethane	< .005	mg/kg			WG423576	05/27/09 12:30
Chloroform	< .005	mg/kg			WG423576	05/27/09 12:30
Chloromethane	< .001	mg/kg			WG423576	05/27/09 12:30
cis-1,2-Dichloroethene	< .001	mg/kg			WG423576	05/27/09 12:30
cis-1,3-Dichloropropene	< .001	mg/kg			WG423576	05/27/09 12:30
Di-isopropyl ether	< .001	mg/kg			WG423576	05/27/09 12:30
Dibromomethane	< .001	mg/kg			WG423576	05/27/09 12:30
Dichlorodifluoromethane	< .005	mg/kg			WG423576	05/27/09 12:30
Ethylbenzene	< .001	mg/kg			WG423576	05/27/09 12:30
Hexachloro-1,3-Butadiene	< .001	mg/kg			WG423576	05/27/09 12:30
Isopropylbenzene	< .001	mg/kg			WG423576	05/27/09 12:30
Methyl tert-butyl ether	< .001	mg/kg			WG423576	05/27/09 12:30
Methylene Chloride	< .005	mg/kg			WG423576	05/27/09 12:30
n-Butylbenzene	< .001	mg/kg			WG423576	05/27/09 12:30
n-Propylbenzene	< .001	mg/kg			WG423576	05/27/09 12:30
Naphthalene	< .005	mg/kg			WG423576	05/27/09 12:30
p-Isopropyltoluene	< .001	mg/kg			WG423576	05/27/09 12:30
sec-Butylbenzene	< .001	mg/kg			WG423576	05/27/09 12:30
Styrene	< .001	mg/kg			WG423576	05/27/09 12:30
tert-Butylbenzene	< .001	mg/kg			WG423576	05/27/09 12:30
Tetrachloroethene	< .001	mg/kg			WG423576	05/27/09 12:30
Toluene	< .005	mg/kg			WG423576	05/27/09 12:30
trans-1,2-Dichloroethene	< .001	mg/kg			WG423576	05/27/09 12:30
trans-1,3-Dichloropropene	< .001	mg/kg			WG423576	05/27/09 12:30
Trichloroethene	< .001	mg/kg			WG423576	05/27/09 12:30
Trichlorofluoromethane	< .005	mg/kg			WG423576	05/27/09 12:30
Vinyl chloride	< .001	mg/kg			WG423576	05/27/09 12:30
4-Bromofluorobenzene		% Rec.	95.88	59-140	WG423576	05/27/09 12:30
Dibromofluoromethane		% Rec.	86.14	63-139	WG423576	05/27/09 12:30

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Amy Zach
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Quality Assurance Report
Level II

L404176

June 01, 2009

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Toluene-d8		% Rec.	102.8	84-116		05/27/09 12:30
1,2,4-Trichlorobenzene	< .01	ppm			WG423641	05/28/09 10:19
2,4,6-Trichlorophenol	< .01	ppm			WG423641	05/28/09 10:19
2,4-Dichlorophenol	< .01	ppm			WG423641	05/28/09 10:19
2,4-Dimethylphenol	< .01	ppm			WG423641	05/28/09 10:19
2,4-Dinitrophenol	< .01	ppm			WG423641	05/28/09 10:19
2,4-Dinitrotoluene	< .01	ppm			WG423641	05/28/09 10:19
2,6-Dinitrotoluene	< .01	ppm			WG423641	05/28/09 10:19
2-Chloronaphthalene	< .01	ppm			WG423641	05/28/09 10:19
2-Chlorophenol	< .01	ppm			WG423641	05/28/09 10:19
2-Nitrophenol	< .01	ppm			WG423641	05/28/09 10:19
3,3-Dichlorobenzidine	< .01	ppm			WG423641	05/28/09 10:19
4,6-Dinitro-2-methylphenol	< .01	ppm			WG423641	05/28/09 10:19
4-Bromophenyl-phenylether	< .01	ppm			WG423641	05/28/09 10:19
4-Chloro-3-methylphenol	< .01	ppm			WG423641	05/28/09 10:19
4-Chlorophenyl-phenylether	< .01	ppm			WG423641	05/28/09 10:19
4-Nitrophenol	< .01	ppm			WG423641	05/28/09 10:19
Acenaphthene	< .01	ppm			WG423641	05/28/09 10:19
Acenaphthylene	< .01	ppm			WG423641	05/28/09 10:19
Anthracene	< .01	ppm			WG423641	05/28/09 10:19
Benzidine	< .01	ppm			WG423641	05/28/09 10:19
Benzo(a)anthracene	< .01	ppm			WG423641	05/28/09 10:19
Benzo(a)pyrene	< .01	ppm			WG423641	05/28/09 10:19
Benzo(b)fluoranthene	< .01	ppm			WG423641	05/28/09 10:19
Benzo(g,h,i)perylene	< .01	ppm			WG423641	05/28/09 10:19
Benzo(k)fluoranthene	< .01	ppm			WG423641	05/28/09 10:19
Benzylbutyl phthalate	< .01	ppm			WG423641	05/28/09 10:19
Bis(2-chlorethoxy)methane	< .01	ppm			WG423641	05/28/09 10:19
Bis(2-chloroethyl)ether	< .01	ppm			WG423641	05/28/09 10:19
Bis(2-chloroisopropyl)ether	< .01	ppm			WG423641	05/28/09 10:19
Bis(2-ethylhexyl)phthalate	< .01	ppm			WG423641	05/28/09 10:19
Chrysene	< .01	ppm			WG423641	05/28/09 10:19
Di-n-butyl phthalate	< .01	ppm			WG423641	05/28/09 10:19
Di-n-octyl phthalate	< .01	ppm			WG423641	05/28/09 10:19
Dibenz(a,h)anthracene	< .01	ppm			WG423641	05/28/09 10:19
Diethyl phthalate	< .01	ppm			WG423641	05/28/09 10:19
Dimethyl phthalate	< .01	ppm			WG423641	05/28/09 10:19
Fluoranthene	< .01	ppm			WG423641	05/28/09 10:19
Fluorene	< .01	ppm			WG423641	05/28/09 10:19
Hexachloro-1,3-butadiene	< .01	ppm			WG423641	05/28/09 10:19
Hexachlorobenzene	< .01	ppm			WG423641	05/28/09 10:19
Hexachlorocyclopentadiene	< .01	ppm			WG423641	05/28/09 10:19
Hexachloroethane	< .01	ppm			WG423641	05/28/09 10:19
Indeno(1,2,3-cd)pyrene	< .01	ppm			WG423641	05/28/09 10:19
Isophorone	< .01	ppm			WG423641	05/28/09 10:19
n-Nitrosodi-n-propylamine	< .01	ppm			WG423641	05/28/09 10:19
n-Nitrosodimethylamine	< .05	ppm			WG423641	05/28/09 10:19
n-Nitrosodiphenylamine	< .01	ppm			WG423641	05/28/09 10:19
Naphthalene	< .01	ppm			WG423641	05/28/09 10:19
Nitrobenzene	< .01	ppm			WG423641	05/28/09 10:19
Pentachlorophenol	< .01	ppm			WG423641	05/28/09 10:19
Phenanthrene	< .01	ppm			WG423641	05/28/09 10:19
Phenol	< .01	ppm			WG423641	05/28/09 10:19
Pyrene	< .01	ppm			WG423641	05/28/09 10:19
2,4,6-Tribromophenol		% Rec.	73.95	10-148	WG423641	05/28/09 10:19
2-Fluorobiphenyl		% Rec.	57.23	26-122	WG423641	05/28/09 10:19
2-Fluorophenol		% Rec.	36.67	10-87	WG423641	05/28/09 10:19
Nitrobenzene-d5		% Rec.	36.82	12-120	WG423641	05/28/09 10:19
Phenol-d5		% Rec.	24.72	10-67	WG423641	05/28/09 10:19

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Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
p-Terphenyl-d14		% Rec.	107.4	34-149		05/28/09 10:19
Arsenic	< 1	mg/kg			WG423772	05/29/09 10:19
Barium	< .25	mg/kg			WG423772	05/29/09 10:19
Cadmium	< .25	mg/kg			WG423772	05/29/09 10:19
Chromium	< .5	mg/kg			WG423772	05/29/09 10:19
Lead	< .25	mg/kg			WG423772	05/29/09 10:19
Selenium	< 1	mg/kg			WG423772	05/29/09 10:19
Silver	< .5	mg/kg			WG423772	05/29/09 10:19
1-Methylnaphthalene	< .33	ppm			WG423537	05/28/09 09:40
2-Chloronaphthalene	< .33	ppm			WG423537	05/28/09 09:40
2-Methylnaphthalene	< .33	ppm			WG423537	05/28/09 09:40
Acenaphthene	< .33	ppm			WG423537	05/28/09 09:40
Acenaphthylene	< .33	ppm			WG423537	05/28/09 09:40
Anthracene	< .33	ppm			WG423537	05/28/09 09:40
Benzo(a)anthracene	< .33	ppm			WG423537	05/28/09 09:40
Benzo(a)pyrene	< .33	ppm			WG423537	05/28/09 09:40
Benzo(b)fluoranthene	< .33	ppm			WG423537	05/28/09 09:40
Benzo(g,h,i)perylene	< .33	ppm			WG423537	05/28/09 09:40
Benzo(k)fluoranthene	< .33	ppm			WG423537	05/28/09 09:40
Chrysene	< .33	ppm			WG423537	05/28/09 09:40
Dibenz(a,h)anthracene	< .33	ppm			WG423537	05/28/09 09:40
Fluoranthene	< .33	ppm			WG423537	05/28/09 09:40
Fluorene	< .33	ppm			WG423537	05/28/09 09:40
Indeno(1,2,3-cd)pyrene	< .33	ppm			WG423537	05/28/09 09:40
Naphthalene	< .33	ppm			WG423537	05/28/09 09:40
Phenanthrene	< .33	ppm			WG423537	05/28/09 09:40
Pyrene	< .33	ppm			WG423537	05/28/09 09:40
2-Fluorobiphenyl		% Rec.	66.50	30-120	WG423537	05/28/09 09:40
Nitrobenzene-d5		% Rec.	68.84	18-119	WG423537	05/28/09 09:40
p-Terphenyl-d14		% Rec.	71.74	23-143	WG423537	05/28/09 09:40
Total Solids	< .1	%			WG423803	05/30/09 10:55
Arsenic	< .02	mg/l			WG423976	05/31/09 14:47
Barium	< .005	mg/l			WG423976	05/31/09 14:47
Cadmium	< .005	mg/l			WG423976	05/31/09 14:47
Chromium	< .01	mg/l			WG423976	05/31/09 14:47
Lead	< .005	mg/l			WG423976	05/31/09 14:47
Selenium	< .02	mg/l			WG423976	05/31/09 14:47
Silver	< .01	mg/l			WG423976	05/31/09 14:47

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Mercury	mg/l	0.00	0.00	0.00	20	L404165-03	WG423232
Mercury	mg/kg	0.0217	0.0260	18.0	20	L404086-06	WG423237
Arsenic	mg/kg	1.85	2.72	38.1*	20	L404107-18	WG423772
Barium	mg/kg	99.6	75.5	27.5*	20	L404107-18	WG423772
Cadmium	mg/kg	0.281	0.225	22.1*	20	L404107-18	WG423772
Chromium	mg/kg	16.8	16.2	3.64	20	L404107-18	WG423772
Lead	mg/kg	6.24	5.70	9.05	20	L404107-18	WG423772

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Quality Assurance Report
Level II

L404176

June 01, 2009

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
			Duplicate				
Selenium	mg/kg	1.84	1.71	7.32	20	L404107-18	WG423772
Silver	mg/kg	0.503	0.643	24.4*	20	L404107-18	WG423772
Total Solids	%	82.1	83.3	1.40	5	L404192-01	WG423803
Arsenic	mg/l	0.00	0.0167	NA	20	L404219-04	WG423976
Barium	mg/l	0.330	0.330	0.00	20	L404219-04	WG423976
Cadmium	mg/l	0.00	0.00	0.00	20	L404219-04	WG423976
Chromium	mg/l	0.00	0.00	0.00	20	L404219-04	WG423976
Lead	mg/l	0.0127	0.00900	34.1*	20	L404219-04	WG423976
Selenium	mg/l	0.00	0.00	0.00	20	L404219-04	WG423976
Silver	mg/l	0.00	0.00	0.00	20	L404219-04	WG423976

Analyte	Units	Known Val	Laboratory Control Sample Result	% Rec	Limit	Batch
Mercury	mg/l	.003	0.00340	113.	85-115	WG423232
1,1,1,2-Tetrachloroethane	mg/l	.05	0.0483	96.6	75-134	WG423304
1,1,1-Trichloroethane	mg/l	.05	0.0537	107.	67-137	WG423304
1,1,2,2-Tetrachloroethane	mg/l	.05	0.0451	90.3	72-128	WG423304
1,1,2-Trichloroethane	mg/l	.05	0.0440	88.0	79-123	WG423304
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	.05	0.0487	97.4	51-149	WG423304
1,1-Dichloroethane	mg/l	.05	0.0575	115.	67-133	WG423304
1,1-Dichloroethene	mg/l	.05	0.0453	90.7	60-130	WG423304
1,1-Dichloropropene	mg/l	.05	0.0576	115.	68-132	WG423304
1,2,3-Trichlorobenzene	mg/l	.05	0.0483	96.6	63-138	WG423304
1,2,3-Trichloropropane	mg/l	.05	0.0483	96.6	68-130	WG423304
1,2,3-Trimethylbenzene	mg/l	.05	0.0460	92.0	70-127	WG423304
1,2,4-Trichlorobenzene	mg/l	.05	0.0506	101.	65-137	WG423304
1,2,4-Trimethylbenzene	mg/l	.05	0.0474	94.8	72-135	WG423304
1,2-Dibromo-3-Chloropropane	mg/l	.05	0.0470	93.9	55-134	WG423304
1,2-Dibromoethane	mg/l	.05	0.0484	96.8	75-126	WG423304
1,2-Dichlorobenzene	mg/l	.05	0.0484	96.8	75-122	WG423304
1,2-Dichloroethane	mg/l	.05	0.0612	122.	63-137	WG423304
1,2-Dichloropropane	mg/l	.05	0.0541	108.	74-122	WG423304
1,3,5-Trimethylbenzene	mg/l	.05	0.0475	94.9	73-134	WG423304
1,3-Dichlorobenzene	mg/l	.05	0.0483	96.7	73-131	WG423304
1,3-Dichloropropane	mg/l	.05	0.0493	98.6	77-119	WG423304
1,4-Dichlorobenzene	mg/l	.05	0.0476	95.2	70-121	WG423304
2,2-Dichloropropane	mg/l	.05	0.0543	109.	46-151	WG423304
2-Butanone (MEK)	mg/l	.25	0.246	98.5	53-132	WG423304
2-Chloroethyl vinyl ether	mg/l	.25	0.185	74.2	0-171	WG423304
2-Chlorotoluene	mg/l	.05	0.0491	98.1	74-128	WG423304
4-Chlorotoluene	mg/l	.05	0.0475	95.0	74-130	WG423304
4-Methyl-2-pentanone (MIBK)	mg/l	.25	0.252	101.	60-142	WG423304
Acetone	mg/l	.25	0.260	104.	48-134	WG423304
Acrolein	mg/l	.25	0.363	145.	6-182	WG423304
Acrylonitrile	mg/l	.25	0.261	104.	60-140	WG423304
Benzene	mg/l	.05	0.0539	108.	67-126	WG423304
Bromobenzene	mg/l	.05	0.0481	96.2	76-123	WG423304
Bromodichloromethane	mg/l	.05	0.0492	98.4	68-133	WG423304
Bromoform	mg/l	.05	0.0439	87.7	60-139	WG423304
Bromomethane	mg/l	.05	0.0447	89.5	45-175	WG423304
Carbon tetrachloride	mg/l	.05	0.0501	100.	64-141	WG423304
Chlorobenzene	mg/l	.05	0.0468	93.6	77-125	WG423304

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Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Chlorodibromomethane	mg/l	.05	0.0448	89.5	73-138	WG423304
Chloroethane	mg/l	.05	0.0502	100.	49-155	WG423304
Chloroform	mg/l	.05	0.0569	114.	66-126	WG423304
Chloromethane	mg/l	.05	0.0511	102.	45-152	WG423304
cis-1,2-Dichloroethene	mg/l	.05	0.0518	104.	72-128	WG423304
cis-1,3-Dichloropropene	mg/l	.05	0.0552	110.	73-131	WG423304
Di-isopropyl ether	mg/l	.05	0.0549	110.	63-139	WG423304
Dibromomethane	mg/l	.05	0.0521	104.	73-125	WG423304
Dichlorodifluoromethane	mg/l	.05	0.0457	91.4	39-189	WG423304
Ethylbenzene	mg/l	.05	0.0482	96.4	76-129	WG423304
Hexachloro-1,3-Butadiene	mg/l	.05	0.0526	105.	67-135	WG423304
Isopropylbenzene	mg/l	.05	0.0474	94.8	73-132	WG423304
Methyl tert-butyl ether	mg/l	.05	0.0499	99.7	51-142	WG423304
Methylene Chloride	mg/l	.05	0.0487	97.3	64-125	WG423304
n-Butylbenzene	mg/l	.05	0.0486	97.2	63-142	WG423304
n-Propylbenzene	mg/l	.05	0.0485	96.9	71-132	WG423304
Naphthalene	mg/l	.05	0.0511	102.	56-145	WG423304
p-Isopropyltoluene	mg/l	.05	0.0472	94.4	68-138	WG423304
sec-Butylbenzene	mg/l	.05	0.0480	95.9	70-135	WG423304
Styrene	mg/l	.05	0.0481	96.2	78-130	WG423304
tert-Butylbenzene	mg/l	.05	0.0461	92.1	72-134	WG423304
Tetrachloroethene	mg/l	.05	0.0454	90.8	67-135	WG423304
Toluene	mg/l	.05	0.0512	102.	72-122	WG423304
trans-1,2-Dichloroethene	mg/l	.05	0.0513	103.	67-129	WG423304
trans-1,3-Dichloropropene	mg/l	.05	0.0557	111.	66-137	WG423304
Trichloroethene	mg/l	.05	0.0519	104.	74-126	WG423304
Trichlorofluoromethane	mg/l	.05	0.0491	98.2	54-156	WG423304
Vinyl chloride	mg/l	.05	0.0543	109.	55-153	WG423304
4-Bromofluorobenzene				96.40	75-128	WG423304
Dibromofluoromethane				102.2	79-125	WG423304
Toluene-d8				105.0	87-114	WG423304
Mercury	mg/kg	8.77	7.71	87.9	71.6-127.7	WG423237
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.0501	100.	73-134	WG423417
1,1,1-Trichloroethane	mg/kg	.05	0.0504	101.	62-135	WG423417
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.0456	91.3	74-129	WG423417
1,1,2-Trichloroethane	mg/kg	.05	0.0461	92.3	77-124	WG423417
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	.05	0.0514	103.	49-155	WG423417
1,1-Dichloroethane	mg/kg	.05	0.0458	91.6	61-134	WG423417
1,1-Dichloroethene	mg/kg	.05	0.0467	93.4	53-136	WG423417
1,1-Dichloropropene	mg/kg	.05	0.0443	88.6	63-132	WG423417
1,2,3-Trichlorobenzene	mg/kg	.05	0.0528	106.	62-146	WG423417
1,2,3-Trichloropropane	mg/kg	.05	0.0486	97.1	70-133	WG423417
1,2,4-Trichlorobenzene	mg/kg	.05	0.0523	105.	61-148	WG423417
1,2,4-Trimethylbenzene	mg/kg	.05	0.0515	103.	68-135	WG423417
1,2-Dibromo-3-Chloropropane	mg/kg	.05	0.0444	88.8	61-134	WG423417
1,2-Dibromoethane	mg/kg	.05	0.0464	92.9	76-127	WG423417
1,2-Dichlorobenzene	mg/kg	.05	0.0487	97.3	77-123	WG423417
1,2-Dichloroethane	mg/kg	.05	0.0484	96.9	58-141	WG423417
1,2-Dichloropropane	mg/kg	.05	0.0463	92.6	71-128	WG423417
1,3,5-Trimethylbenzene	mg/kg	.05	0.0511	102.	71-133	WG423417
1,3-Dichlorobenzene	mg/kg	.05	0.0503	101.	71-132	WG423417
1,3-Dichloropropane	mg/kg	.05	0.0454	90.8	76-120	WG423417
1,4-Dichlorobenzene	mg/kg	.05	0.0472	94.4	72-123	WG423417
2,2-Dichloropropane	mg/kg	.05	0.0460	91.9	50-147	WG423417
2-Butanone (MEK)	mg/kg	.25	0.179	71.8	51-131	WG423417

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Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

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Amy Zach
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Quality Assurance Report
Level II

L404176

June 01, 2009

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
2-Chloroethyl vinyl ether	mg/kg	.25	0.246	98.2	0-188	WG423417
2-Chlorotoluene	mg/kg	.05	0.0499	99.7	73-128	WG423417
4-Chlorotoluene	mg/kg	.05	0.0491	98.1	72-129	WG423417
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.217	86.6	61-143	WG423417
Acetone	mg/kg	.25	0.188	75.2	44-140	WG423417
Acrylonitrile	mg/kg	.25	0.198	79.3	55-143	WG423417
Benzene	mg/kg	.05	0.0432	86.3	65-128	WG423417
Bromobenzene	mg/kg	.05	0.0476	95.2	75-123	WG423417
Bromodichloromethane	mg/kg	.05	0.0498	99.6	66-126	WG423417
Bromoform	mg/kg	.05	0.0493	98.6	64-139	WG423417
Bromomethane	mg/kg	.05	0.0505	101.	41-175	WG423417
Carbon tetrachloride	mg/kg	.05	0.0471	94.3	60-140	WG423417
Chlorobenzene	mg/kg	.05	0.0483	96.6	75-125	WG423417
Chlorodibromomethane	mg/kg	.05	0.0493	98.5	72-137	WG423417
Chloroethane	mg/kg	.05	0.0489	97.9	44-159	WG423417
Chloroform	mg/kg	.05	0.0453	90.6	63-123	WG423417
Chloromethane	mg/kg	.05	0.0393	78.5	42-149	WG423417
cis-1,2-Dichloroethene	mg/kg	.05	0.0442	88.5	71-129	WG423417
cis-1,3-Dichloropropene	mg/kg	.05	0.0474	94.7	73-132	WG423417
Di-isopropyl ether	mg/kg	.05	0.0453	90.6	59-143	WG423417
Dibromomethane	mg/kg	.05	0.0455	91.0	70-130	WG423417
Dichlorodifluoromethane	mg/kg	.05	0.0431	86.1	26-186	WG423417
Ethylbenzene	mg/kg	.05	0.0472	94.5	74-128	WG423417
Hexachloro-1,3-Butadiene	mg/kg	.05	0.0511	102.	65-137	WG423417
Isopropylbenzene	mg/kg	.05	0.0512	102.	73-130	WG423417
Methyl tert-butyl ether	mg/kg	.05	0.0418	83.5	44-148	WG423417
Methylene Chloride	mg/kg	.05	0.0441	88.2	57-129	WG423417
n-Butylbenzene	mg/kg	.05	0.0503	101.	60-145	WG423417
n-Propylbenzene	mg/kg	.05	0.0510	102.	71-132	WG423417
Naphthalene	mg/kg	.05	0.0440	88.1	61-142	WG423417
p-Isopropyltoluene	mg/kg	.05	0.0526	105.	67-138	WG423417
sec-Butylbenzene	mg/kg	.05	0.0516	103.	71-134	WG423417
Styrene	mg/kg	.05	0.0506	101.	76-133	WG423417
tert-Butylbenzene	mg/kg	.05	0.0515	103.	72-132	WG423417
Tetrachloroethene	mg/kg	.05	0.0484	96.7	65-135	WG423417
Toluene	mg/kg	.05	0.0471	94.1	70-120	WG423417
trans-1,2-Dichloroethene	mg/kg	.05	0.0442	88.4	61-133	WG423417
trans-1,3-Dichloropropene	mg/kg	.05	0.0444	88.8	70-135	WG423417
Trichloroethene	mg/kg	.05	0.0490	98.0	71-126	WG423417
Trichlorofluoromethane	mg/kg	.05	0.0547	109.	52-147	WG423417
Vinyl chloride	mg/kg	.05	0.0423	84.6	50-151	WG423417
4-Bromofluorobenzene				99.38	59-140	WG423417
Dibromofluoromethane				91.07	63-139	WG423417
Toluene-d8				98.70	84-116	WG423417
1-Methylnaphthalene	ppm	.033	0.0234	70.8	41-110	WG423440
2-Chloronaphthalene	ppm	.033	0.0232	70.2	43-109	WG423440
2-Methylnaphthalene	ppm	.033	0.0224	67.9	38-104	WG423440
Acenaphthene	ppm	.033	0.0244	74.0	48-103	WG423440
Acenaphthylene	ppm	.033	0.0258	78.3	43-106	WG423440
Anthracene	ppm	.033	0.0275	83.3	51-110	WG423440
Benzo(a)anthracene	ppm	.033	0.0269	81.5	38-126	WG423440
Benzo(a)pyrene	ppm	.033	0.0279	84.5	47-118	WG423440
Benzo(b)fluoranthene	ppm	.033	0.0265	80.4	47-118	WG423440
Benzo(g,h,i)perylene	ppm	.033	0.0275	83.3	40-125	WG423440
Benzo(k)fluoranthene	ppm	.033	0.0299	90.5	45-121	WG423440
Chrysene	ppm	.033	0.0247	74.8	35-135	WG423440
Dibenz(a,h)anthracene	ppm	.033	0.0278	84.4	41-124	WG423440

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Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Fluoranthene	ppm	.033	0.0277	83.8	50-114	WG423440
Fluorene	ppm	.033	0.0257	77.8	49-109	WG423440
Indeno(1,2,3-cd)pyrene	ppm	.033	0.0280	84.7	40-126	WG423440
Naphthalene	ppm	.033	0.0230	69.8	36-100	WG423440
Phenanthrene	ppm	.033	0.0268	81.3	46-108	WG423440
Pyrene	ppm	.033	0.0257	78.0	30-136	WG423440
2-Fluorobiphenyl				72.64	30-120	WG423440
Nitrobenzene-d5				68.87	18-119	WG423440
p-Terphenyl-d14				80.00	23-143	WG423440
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.0481	96.3	73-134	WG423576
1,1,1-Trichloroethane	mg/kg	.05	0.0414	82.8	62-135	WG423576
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.0490	97.9	74-129	WG423576
1,1,2-Trichloroethane	mg/kg	.05	0.0460	91.9	77-124	WG423576
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	.05	0.0395	79.0	49-155	WG423576
1,1-Dichloroethane	mg/kg	.05	0.0446	89.2	61-134	WG423576
1,1-Dichloroethene	mg/kg	.05	0.0375	74.9	53-136	WG423576
1,1-Dichloropropene	mg/kg	.05	0.0412	82.3	63-132	WG423576
1,2,3-Trichlorobenzene	mg/kg	.05	0.0517	103.	62-146	WG423576
1,2,3-Trichloropropane	mg/kg	.05	0.0486	97.2	70-133	WG423576
1,2,4-Trichlorobenzene	mg/kg	.05	0.0541	108.	61-148	WG423576
1,2,4-Trimethylbenzene	mg/kg	.05	0.0463	92.6	68-135	WG423576
1,2-Dibromo-3-Chloropropane	mg/kg	.05	0.0487	97.4	61-134	WG423576
1,2-Dibromoethane	mg/kg	.05	0.0473	94.6	76-127	WG423576
1,2-Dichlorobenzene	mg/kg	.05	0.0479	95.7	77-123	WG423576
1,2-Dichloroethane	mg/kg	.05	0.0421	84.1	58-141	WG423576
1,2-Dichloropropane	mg/kg	.05	0.0476	95.1	71-128	WG423576
1,3,5-Trimethylbenzene	mg/kg	.05	0.0458	91.7	71-133	WG423576
1,3-Dichlorobenzene	mg/kg	.05	0.0501	100.	71-132	WG423576
1,3-Dichloropropane	mg/kg	.05	0.0467	93.5	76-120	WG423576
1,4-Dichlorobenzene	mg/kg	.05	0.0464	92.9	72-123	WG423576
2,2-Dichloropropane	mg/kg	.05	0.0409	81.8	50-147	WG423576
2-Butanone (MEK)	mg/kg	.25	0.229	91.5	51-131	WG423576
2-Chloroethyl vinyl ether	mg/kg	.25	0.194	77.4	0-188	WG423576
2-Chlorotoluene	mg/kg	.05	0.0459	91.8	73-128	WG423576
4-Chlorotoluene	mg/kg	.05	0.0452	90.3	72-129	WG423576
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.244	97.6	61-143	WG423576
Acetone	mg/kg	.25	0.216	86.5	44-140	WG423576
Acrylonitrile	mg/kg	.25	0.242	96.8	55-143	WG423576
Benzene	mg/kg	.05	0.0429	85.9	65-128	WG423576
Bromobenzene	mg/kg	.05	0.0438	87.7	75-123	WG423576
Bromodichloromethane	mg/kg	.05	0.0415	83.1	66-126	WG423576
Bromoform	mg/kg	.05	0.0488	97.7	64-139	WG423576
Bromomethane	mg/kg	.05	0.0349	69.9	41-175	WG423576
Carbon tetrachloride	mg/kg	.05	0.0367	73.3	60-140	WG423576
Chlorobenzene	mg/kg	.05	0.0450	90.1	75-125	WG423576
Chlorodibromomethane	mg/kg	.05	0.0434	86.7	72-137	WG423576
Chloroethane	mg/kg	.05	0.0365	72.9	44-159	WG423576
Chloroform	mg/kg	.05	0.0457	91.4	63-123	WG423576
Chloromethane	mg/kg	.05	0.0356	71.3	42-149	WG423576
cis-1,2-Dichloroethene	mg/kg	.05	0.0443	88.7	71-129	WG423576
cis-1,3-Dichloropropene	mg/kg	.05	0.0476	95.2	73-132	WG423576
Di-isopropyl ether	mg/kg	.05	0.0455	91.0	59-143	WG423576
Dibromomethane	mg/kg	.05	0.0458	91.6	70-130	WG423576
Dichlorodifluoromethane	mg/kg	.05	0.0310	61.9	26-186	WG423576
Ethylbenzene	mg/kg	.05	0.0453	90.5	74-128	WG423576
Hexachloro-1,3-Butadiene	mg/kg	.05	0.0524	105.	65-137	WG423576
Isopropylbenzene	mg/kg	.05	0.0458	91.6	73-130	WG423576

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L404176

June 01, 2009

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Methyl tert-butyl ether	mg/kg	.05	0.0421	84.2	44-148	WG423576
Methylene Chloride	mg/kg	.05	0.0394	78.8	57-129	WG423576
n-Butylbenzene	mg/kg	.05	0.0440	87.9	60-145	WG423576
n-Propylbenzene	mg/kg	.05	0.0451	90.2	71-132	WG423576
Naphthalene	mg/kg	.05	0.0547	109.	61-142	WG423576
p-Isopropyltoluene	mg/kg	.05	0.0457	91.5	67-138	WG423576
sec-Butylbenzene	mg/kg	.05	0.0470	93.9	71-134	WG423576
Styrene	mg/kg	.05	0.0486	97.1	76-133	WG423576
tert-Butylbenzene	mg/kg	.05	0.0456	91.2	72-132	WG423576
Tetrachloroethene	mg/kg	.05	0.0419	83.8	65-135	WG423576
Toluene	mg/kg	.05	0.0441	88.2	70-120	WG423576
trans-1,2-Dichloroethene	mg/kg	.05	0.0400	80.0	61-133	WG423576
trans-1,3-Dichloropropene	mg/kg	.05	0.0453	90.7	70-135	WG423576
Trichloroethene	mg/kg	.05	0.0448	89.7	71-126	WG423576
Trichlorofluoromethane	mg/kg	.05	0.0352	70.4	52-147	WG423576
Vinyl chloride	mg/kg	.05	0.0385	77.0	50-151	WG423576
4-Bromofluorobenzene				98.35	59-140	WG423576
Dibromofluoromethane				92.27	63-139	WG423576
Toluene-d8				102.3	84-116	WG423576
1,2,4-Trichlorobenzene	ppm	.01	0.00418	41.8	26-103	WG423641
2,4,6-Trichlorophenol	ppm	.01	0.00751	75.1	49-118	WG423641
2,4-Dichlorophenol	ppm	.01	0.00690	69.0	46-115	WG423641
2,4-Dimethylphenol	ppm	.01	0.0104	104.	40-124	WG423641
2,4-Dinitrophenol	ppm	.01	0.00451	45.1	10-125	WG423641
2,4-Dinitrotoluene	ppm	.01	0.00879	87.9	56-128	WG423641
2,6-Dinitrotoluene	ppm	.01	0.00774	77.4	56-121	WG423641
2-Chloronaphthalene	ppm	.01	0.00703	70.3	44-110	WG423641
2-Chlorophenol	ppm	.01	0.00552	55.2	38-114	WG423641
2-Nitrophenol	ppm	.01	0.00682	68.2	35-118	WG423641
3,3-Dichlorobenzidine	ppm	.01	0.00822	82.2	46-145	WG423641
4,6-Dinitro-2-methylphenol	ppm	.01	0.00697	69.7	24-119	WG423641
4-Bromophenyl-phenylether	ppm	.01	0.00688	68.8	45-105	WG423641
4-Chloro-3-methylphenol	ppm	.01	0.00669	66.9	47-116	WG423641
4-Chlorophenyl-phenylether	ppm	.01	0.00790	79.0	49-116	WG423641
4-Nitrophenol	ppm	.01	0.00179	17.9	10-66	WG423641
Acenaphthene	ppm	.01	0.00801	80.1	48-110	WG423641
Acenaphthylene	ppm	.01	0.00804	80.4	48-113	WG423641
Anthracene	ppm	.01	0.00870	87.0	55-127	WG423641
Benzidine	ppm	.01	0.000622	6.22	0-46	WG423641
Benzo(a)anthracene	ppm	.01	0.00863	86.3	57-115	WG423641
Benzo(a)pyrene	ppm	.01	0.00903	90.3	63-125	WG423641
Benzo(b)fluoranthene	ppm	.01	0.00794	79.4	50-123	WG423641
Benzo(g,h,i)perylene	ppm	.01	0.0106	106.	39-143	WG423641
Benzo(k)fluoranthene	ppm	.01	0.00856	85.6	45-126	WG423641
Benzylbutyl phthalate	ppm	.01	0.00378	37.8	22-154	WG423641
Bis(2-chlorethoxy)methane	ppm	.01	0.00596	59.6	42-116	WG423641
Bis(2-chloroethyl)ether	ppm	.01	0.00375	37.5	26-115	WG423641
Bis(2-chloroisopropyl)ether	ppm	.01	0.00402	40.2	32-115	WG423641
Bis(2-ethylhexyl)phthalate	ppm	.01	0.00736	73.6	47-143	WG423641
Chrysene	ppm	.01	0.00802	80.2	58-113	WG423641
Di-n-butyl phthalate	ppm	.01	0.00662	66.2	51-131	WG423641
Di-n-octyl phthalate	ppm	.01	0.00740	74.0	51-138	WG423641
Dibenz(a,h)anthracene	ppm	.01	0.0106	106.	39-144	WG423641
Diethyl phthalate	ppm	.01	0.00545	54.5	36-128	WG423641
Dimethyl phthalate	ppm	.01	0.00222	22.2	10-135	WG423641
Fluoranthene	ppm	.01	0.00861	86.1	53-119	WG423641
Fluorene	ppm	.01	0.00833	83.3	49-116	WG423641

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Hexachloro-1,3-butadiene	ppm	.01	0.00435	43.5	21-116	WG423641
Hexachlorobenzene	ppm	.01	0.00812	81.2	51-121	WG423641
Hexachlorocyclopentadiene	ppm	.01	0.00414	41.4	4-126	WG423641
Hexachloroethane	ppm	.01	0.00237	23.7	15-109	WG423641
Indeno(1,2,3-cd)pyrene	ppm	.01	0.0104	104.	40-143	WG423641
Isophorone	ppm	.01	0.00596	59.6	48-126	WG423641
n-Nitrosodi-n-propylamine	ppm	.01	0.00556	55.6	47-122	WG423641
n-Nitrosodimethylamine	ppm	.01	0.00226	22.6	11-69	WG423641
n-Nitrosodiphenylamine	ppm	.01	0.00721	72.1	59-143	WG423641
Naphthalene	ppm	.01	0.00492	49.2	29-103	WG423641
Nitrobenzene	ppm	.01	0.00420	42.0	31-105	WG423641
Pentachlorophenol	ppm	.01	0.00467	46.7	20-122	WG423641
Phenanthrene	ppm	.01	0.00788	78.8	54-112	WG423641
Phenol	ppm	.01	0.00253	25.3	17-52	WG423641
Pyrene	ppm	.01	0.00753	75.3	46-130	WG423641
2,4,6-Tribromophenol				84.25	10-148	WG423641
2-Fluorobiphenyl				72.48	26-122	WG423641
2-Fluorophenol				30.70	10-87	WG423641
Nitrobenzene-d5				40.82	12-120	WG423641
Phenol-d5				21.44	10-67	WG423641
p-Terphenyl-d14				95.02	34-149	WG423641
Arsenic	mg/kg	192	159.	82.8	78.6-120.8	WG423772
Barium	mg/kg	420	385.	91.7	78.8-121.4	WG423772
Cadmium	mg/kg	70.1	64.0	91.3	78.5-121.5	WG423772
Chromium	mg/kg	168	152.	90.5	80.4-120.2	WG423772
Lead	mg/kg	113	93.7	82.9	77.3-122.1	WG423772
Selenium	mg/kg	176	153.	86.9	75.6-125.0	WG423772
Silver	mg/kg	115	103.	89.6	66-133.9	WG423772
1-Methylnaphthalene	ppm	.033	0.0221	67.0	41-110	WG423537
2-Chloronaphthalene	ppm	.033	0.0215	65.2	43-109	WG423537
2-Methylnaphthalene	ppm	.033	0.0204	61.9	38-104	WG423537
Acenaphthene	ppm	.033	0.0223	67.4	48-103	WG423537
Acenaphthylene	ppm	.033	0.0223	67.6	43-106	WG423537
Anthracene	ppm	.033	0.0242	73.3	51-110	WG423537
Benzo(a)anthracene	ppm	.033	0.0240	72.7	38-126	WG423537
Benzo(a)pyrene	ppm	.033	0.0245	74.3	47-118	WG423537
Benzo(b)fluoranthene	ppm	.033	0.0250	75.8	47-118	WG423537
Benzo(g,h,i)perylene	ppm	.033	0.0240	72.8	40-125	WG423537
Benzo(k)fluoranthene	ppm	.033	0.0249	75.4	45-121	WG423537
Chrysene	ppm	.033	0.0222	67.1	35-135	WG423537
Dibenz(a,h)anthracene	ppm	.033	0.0240	72.7	41-124	WG423537
Fluoranthene	ppm	.033	0.0237	71.9	50-114	WG423537
Fluorene	ppm	.033	0.0233	70.5	49-109	WG423537
Indeno(1,2,3-cd)pyrene	ppm	.033	0.0244	73.9	40-126	WG423537
Naphthalene	ppm	.033	0.0198	60.0	36-100	WG423537
Phenanthrene	ppm	.033	0.0231	69.9	46-108	WG423537
Pyrene	ppm	.033	0.0227	68.9	30-136	WG423537
2-Fluorobiphenyl				60.82	30-120	WG423537
Nitrobenzene-d5				57.85	18-119	WG423537
p-Terphenyl-d14				68.60	23-143	WG423537
Total Solids	%	50	50.0	100.	85-115	WG423803

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ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404176

June 01, 2009

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Arsenic	mg/l	1.13	1.03	91.2	85-115	WG423976
Barium	mg/l	1.13	1.10	97.3	85-115	WG423976
Cadmium	mg/l	1.13	1.10	97.3	85-115	WG423976
Chromium	mg/l	1.13	1.10	97.3	85-115	WG423976
Lead	mg/l	1.13	1.10	97.3	85-115	WG423976
Selenium	mg/l	1.13	0.997	88.2	85-115	WG423976
Silver	mg/l	1.13	1.12	99.1	85-115	WG423976

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0472	0.0483	94.0	75-134	2.32	20	WG423304
1,1,1-Trichloroethane	mg/l	0.0517	0.0537	103.	67-137	3.65	20	WG423304
1,1,2,2-Tetrachloroethane	mg/l	0.0448	0.0451	90.0	72-128	0.726	20	WG423304
1,1,2-Trichloroethane	mg/l	0.0436	0.0440	87.0	79-123	0.871	20	WG423304
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0466	0.0487	93.0	51-149	4.45	20	WG423304
1,1-Dichloroethane	mg/l	0.0547	0.0575	109.	67-133	4.93	20	WG423304
1,1-Dichloroethene	mg/l	0.0453	0.0453	91.0	60-130	0.121	20	WG423304
1,1-Dichloropropene	mg/l	0.0542	0.0576	108.	68-132	6.02	20	WG423304
1,2,3-Trichlorobenzene	mg/l	0.0488	0.0483	98.0	63-138	1.09	20	WG423304
1,2,3-Trichloropropane	mg/l	0.0483	0.0483	97.0	68-130	0.129	20	WG423304
1,2,3-Trimethylbenzene	mg/l	0.0453	0.0460	91.0	70-127	1.66	20	WG423304
1,2,4-Trichlorobenzene	mg/l	0.0514	0.0506	103.	65-137	1.61	20	WG423304
1,2,4-Trimethylbenzene	mg/l	0.0471	0.0474	94.0	72-135	0.700	20	WG423304
1,2-Dibromo-3-Chloropropane	mg/l	0.0443	0.0470	89.0	55-134	5.89	20	WG423304
1,2-Dibromoethane	mg/l	0.0469	0.0484	94.0	75-126	3.10	20	WG423304
1,2-Dichlorobenzene	mg/l	0.0476	0.0484	95.0	75-122	1.73	20	WG423304
1,2-Dichloroethane	mg/l	0.0565	0.0612	113.	63-137	7.99	20	WG423304
1,2-Dichloropropane	mg/l	0.0509	0.0541	102.	74-122	6.00	20	WG423304
1,3,5-Trimethylbenzene	mg/l	0.0467	0.0475	93.0	73-134	1.63	20	WG423304
1,3-Dichlorobenzene	mg/l	0.0481	0.0483	96.0	73-131	0.562	20	WG423304
1,3-Dichloropropane	mg/l	0.0485	0.0493	97.0	77-119	1.63	20	WG423304
1,4-Dichlorobenzene	mg/l	0.0471	0.0476	94.0	70-121	1.03	20	WG423304
2,2-Dichloropropane	mg/l	0.0520	0.0543	104.	46-151	4.29	20	WG423304
2-Butanone (MEK)	mg/l	0.234	0.246	94.0	53-132	4.91	20	WG423304
2-Chloroethyl vinyl ether	mg/l	0.136	0.185	55.0	0-171	30.6*	27	WG423304
2-Chlorotoluene	mg/l	0.0483	0.0491	97.0	74-128	1.52	20	WG423304
4-Chlorotoluene	mg/l	0.0465	0.0475	93.0	74-130	2.22	20	WG423304
4-Methyl-2-pentanone (MIBK)	mg/l	0.237	0.252	95.0	60-142	6.13	20	WG423304
Acetone	mg/l	0.247	0.260	99.0	48-134	5.11	20	WG423304
Acrolein	mg/l	0.346	0.363	138.	6-182	4.93	39	WG423304
Acrylonitrile	mg/l	0.245	0.261	98.0	60-140	6.15	20	WG423304
Benzene	mg/l	0.0512	0.0539	102.	67-126	5.20	20	WG423304
Bromobenzene	mg/l	0.0470	0.0481	94.0	76-123	2.30	20	WG423304
Bromodichloromethane	mg/l	0.0459	0.0492	92.0	68-133	7.03	20	WG423304
Bromoform	mg/l	0.0436	0.0439	87.0	60-139	0.648	20	WG423304
Bromomethane	mg/l	0.0427	0.0447	85.0	45-175	4.72	20	WG423304
Carbon tetrachloride	mg/l	0.0539	0.0501	108.	64-141	7.24	20	WG423304
Chlorobenzene	mg/l	0.0458	0.0468	92.0	77-125	2.24	20	WG423304
Chlorodibromomethane	mg/l	0.0442	0.0448	88.0	73-138	1.25	20	WG423304
Chloroethane	mg/l	0.0488	0.0502	98.0	49-155	2.91	20	WG423304
Chloroform	mg/l	0.0540	0.0569	108.	66-126	5.32	20	WG423304
Chloromethane	mg/l	0.0477	0.0511	95.0	45-152	6.96	20	WG423304
cis-1,2-Dichloroethene	mg/l	0.0501	0.0518	100.	72-128	3.27	20	WG423304
cis-1,3-Dichloropropene	mg/l	0.0528	0.0552	106.	73-131	4.42	20	WG423304
Di-isopropyl ether	mg/l	0.0518	0.0549	104.	63-139	5.65	20	WG423304
Dibromomethane	mg/l	0.0505	0.0521	101.	73-125	3.13	20	WG423304
Dichlorodifluoromethane	mg/l	0.0432	0.0457	86.0	39-189	5.59	24	WG423304
Ethylbenzene	mg/l	0.0471	0.0482	94.0	76-129	2.26	20	WG423304

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Mt. Juliet, TN 37122
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1-800-767-5859
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Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404176

June 01, 2009

		Laboratory Control Sample				Duplicate		
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Hexachloro-1,3-Butadiene	mg/l	0.0519	0.0526	104.	67-135	1.21	20	WG423304
Isopropylbenzene	mg/l	0.0459	0.0474	92.0	73-132	3.21	20	WG423304
Methyl tert-butyl ether	mg/l	0.0474	0.0499	95.0	51-142	5.06	20	WG423304
Methylene Chloride	mg/l	0.0467	0.0487	93.0	64-125	4.15	20	WG423304
n-Butylbenzene	mg/l	0.0483	0.0486	97.0	63-142	0.725	20	WG423304
n-Propylbenzene	mg/l	0.0472	0.0485	94.0	71-132	2.66	20	WG423304
Naphthalene	mg/l	0.0537	0.0511	107.	56-145	5.12	20	WG423304
p-Isopropyltoluene	mg/l	0.0458	0.0472	92.0	68-138	2.93	20	WG423304
sec-Butylbenzene	mg/l	0.0467	0.0480	93.0	70-135	2.60	20	WG423304
Styrene	mg/l	0.0471	0.0481	94.0	78-130	2.11	20	WG423304
tert-Butylbenzene	mg/l	0.0452	0.0461	90.0	72-134	1.79	20	WG423304
Tetrachloroethene	mg/l	0.0448	0.0454	90.0	67-135	1.26	20	WG423304
Toluene	mg/l	0.0484	0.0512	97.0	72-122	5.77	20	WG423304
trans-1,2-Dichloroethene	mg/l	0.0496	0.0513	99.0	67-129	3.33	20	WG423304
trans-1,3-Dichloropropene	mg/l	0.0521	0.0557	104.	66-137	6.66	20	WG423304
Trichloroethene	mg/l	0.0491	0.0519	98.0	74-126	5.44	20	WG423304
Trichlorofluoromethane	mg/l	0.0468	0.0491	94.0	54-156	4.79	20	WG423304
Vinyl chloride	mg/l	0.0507	0.0543	101.	55-153	6.88	20	WG423304
4-Bromofluorobenzene				97.80	75-128			WG423304
Dibromofluoromethane				100.0	79-125			WG423304
Toluene-d8				103.6	87-114			WG423304
1,1,1,2-Tetrachloroethane	mg/kg	0.0512	0.0501	102.	73-134	2.10	20	WG423417
1,1,1-Trichloroethane	mg/kg	0.0517	0.0504	103.	62-135	2.54	20	WG423417
1,1,2,2-Tetrachloroethane	mg/kg	0.0520	0.0456	104.	74-129	13.1	20	WG423417
1,1,2-Trichloroethane	mg/kg	0.0506	0.0461	101.	77-124	9.30	20	WG423417
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0534	0.0514	107.	49-155	3.90	20	WG423417
1,1-Dichloroethane	mg/kg	0.0474	0.0458	95.0	61-134	3.39	20	WG423417
1,1-Dichloroethene	mg/kg	0.0504	0.0467	101.	53-136	7.57	20	WG423417
1,1-Dichloropropene	mg/kg	0.0460	0.0443	92.0	63-132	3.85	20	WG423417
1,2,3-Trichlorobenzene	mg/kg	0.0567	0.0528	113.	62-146	7.24	20	WG423417
1,2,3-Trichloropropane	mg/kg	0.0555	0.0486	111.	70-133	13.4	20	WG423417
1,2,4-Trichlorobenzene	mg/kg	0.0543	0.0523	109.	61-148	3.88	20	WG423417
1,2,4-Trimethylbenzene	mg/kg	0.0523	0.0515	105.	68-135	1.58	20	WG423417
1,2-Dibromo-3-Chloropropane	mg/kg	0.0529	0.0444	106.	61-134	17.5	21	WG423417
1,2-Dibromoethane	mg/kg	0.0514	0.0464	103.	76-127	10.2	20	WG423417
1,2-Dichlorobenzene	mg/kg	0.0497	0.0487	99.0	77-123	2.02	20	WG423417
1,2-Dichloroethane	mg/kg	0.0530	0.0484	106.	58-141	8.92	20	WG423417
1,2-Dichloropropane	mg/kg	0.0489	0.0463	98.0	71-128	5.47	20	WG423417
1,3,5-Trimethylbenzene	mg/kg	0.0516	0.0511	103.	71-133	1.06	20	WG423417
1,3-Dichlorobenzene	mg/kg	0.0513	0.0503	103.	71-132	1.94	20	WG423417
1,3-Dichloropropane	mg/kg	0.0487	0.0454	97.0	76-120	7.03	20	WG423417
1,4-Dichlorobenzene	mg/kg	0.0484	0.0472	97.0	72-123	2.46	20	WG423417
2,2-Dichloropropane	mg/kg	0.0475	0.0460	95.0	50-147	3.29	20	WG423417
2-Butanone (MEK)	mg/kg	0.227	0.179	91.0	51-131	23.5	25	WG423417
2-Chloroethyl vinyl ether	mg/kg	0.224	0.246	90.0	0-188	9.12	39	WG423417
2-Chlorotoluene	mg/kg	0.0507	0.0499	101.	73-128	1.57	20	WG423417
4-Chlorotoluene	mg/kg	0.0503	0.0491	101.	72-129	2.51	20	WG423417
4-Methyl-2-pentanone (MIBK)	mg/kg	0.272	0.217	109.	61-143	22.7	23	WG423417
Acetone	mg/kg	0.243	0.188	97.0	44-140	25.3*	25	WG423417
Acrylonitrile	mg/kg	0.249	0.198	100.	55-143	22.9*	20	WG423417
Benzene	mg/kg	0.0453	0.0432	91.0	65-128	4.75	20	WG423417
Bromobenzene	mg/kg	0.0491	0.0476	98.0	75-123	3.19	20	WG423417
Bromodichloromethane	mg/kg	0.0529	0.0498	106.	66-126	6.11	20	WG423417
Bromoform	mg/kg	0.0551	0.0493	110.	64-139	11.2	20	WG423417
Bromomethane	mg/kg	0.0508	0.0505	102.	41-175	0.513	20	WG423417
Carbon tetrachloride	mg/kg	0.0484	0.0471	97.0	60-140	2.65	20	WG423417
Chlorobenzene	mg/kg	0.0482	0.0483	96.0	75-125	0.299	20	WG423417

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June 01, 2009

L404176

		Laboratory Control Sample				Duplicate		
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Chlorodibromomethane	mg/kg	0.0521	0.0493	104.	72-137	5.53	20	WG423417
Chloroethane	mg/kg	0.0482	0.0489	96.0	44-159	1.47	20	WG423417
Chloroform	mg/kg	0.0477	0.0453	95.0	63-123	5.21	20	WG423417
Chloromethane	mg/kg	0.0401	0.0393	80.0	42-149	2.13	20	WG423417
cis-1,2-Dichloroethene	mg/kg	0.0464	0.0442	93.0	71-129	4.81	20	WG423417
cis-1,3-Dichloropropene	mg/kg	0.0508	0.0474	102.	73-132	7.10	20	WG423417
Di-isopropyl ether	mg/kg	0.0482	0.0453	96.0	59-143	6.23	20	WG423417
Dibromomethane	mg/kg	0.0510	0.0455	102.	70-130	11.4	20	WG423417
Dichlorodifluoromethane	mg/kg	0.0443	0.0431	89.0	26-186	2.90	22	WG423417
Ethylbenzene	mg/kg	0.0473	0.0472	95.0	74-128	0.192	20	WG423417
Hexachloro-1,3-Butadiene	mg/kg	0.0501	0.0511	100.	65-137	1.92	20	WG423417
Isopropylbenzene	mg/kg	0.0510	0.0512	102.	73-130	0.421	20	WG423417
Methyl tert-butyl ether	mg/kg	0.0475	0.0418	95.0	44-148	12.8	20	WG423417
Methylene Chloride	mg/kg	0.0464	0.0441	93.0	57-129	5.04	20	WG423417
n-Butylbenzene	mg/kg	0.0500	0.0503	100.	60-145	0.568	20	WG423417
n-Propylbenzene	mg/kg	0.0513	0.0510	103.	71-132	0.602	20	WG423417
Naphthalene	mg/kg	0.0512	0.0440	102.	61-142	15.0	20	WG423417
p-Isopropyltoluene	mg/kg	0.0535	0.0526	107.	67-138	1.83	20	WG423417
sec-Butylbenzene	mg/kg	0.0518	0.0516	104.	71-134	0.442	20	WG423417
Styrene	mg/kg	0.0509	0.0506	102.	76-133	0.640	20	WG423417
tert-Butylbenzene	mg/kg	0.0521	0.0515	104.	72-132	1.13	20	WG423417
Tetrachloroethene	mg/kg	0.0475	0.0484	95.0	65-135	1.72	20	WG423417
Toluene	mg/kg	0.0484	0.0471	97.0	70-120	2.75	20	WG423417
trans-1,2-Dichloroethene	mg/kg	0.0452	0.0442	90.0	61-133	2.32	20	WG423417
trans-1,3-Dichloropropene	mg/kg	0.0489	0.0444	98.0	70-135	9.75	20	WG423417
Trichloroethene	mg/kg	0.0505	0.0490	101.	71-126	3.04	20	WG423417
Trichlorofluoromethane	mg/kg	0.0552	0.0547	110.	52-147	0.854	20	WG423417
Vinyl chloride	mg/kg	0.0429	0.0423	86.0	50-151	1.49	20	WG423417
4-Bromofluorobenzene				99.08	59-140			WG423417
Dibromofluoromethane				94.46	63-139			WG423417
Toluene-d8				99.72	84-116			WG423417
1-Methylnaphthalene	ppm	0.0235	0.0234	71.0	41-110	0.538	24	WG423440
2-Chloronaphthalene	ppm	0.0236	0.0232	72.0	43-109	1.93	21	WG423440
2-Methylnaphthalene	ppm	0.0235	0.0224	71.0	38-104	4.70	24	WG423440
Acenaphthene	ppm	0.0256	0.0244	77.0	48-103	4.55	20	WG423440
Acenaphthylene	ppm	0.0268	0.0258	81.0	43-106	3.76	20	WG423440
Anthracene	ppm	0.0300	0.0275	91.0	51-110	8.88	22	WG423440
Benzo(a)anthracene	ppm	0.0282	0.0269	85.0	38-126	4.53	20	WG423440
Benzo(a)pyrene	ppm	0.0291	0.0279	88.0	47-118	4.38	20	WG423440
Benzo(b)fluoranthene	ppm	0.0269	0.0265	81.0	47-118	1.24	29	WG423440
Benzo(g,h,i)perylene	ppm	0.0290	0.0275	88.0	40-125	5.30	20	WG423440
Benzo(k)fluoranthene	ppm	0.0321	0.0299	97.0	45-121	7.34	31	WG423440
Chrysene	ppm	0.0267	0.0247	81.0	35-135	7.65	20	WG423440
Dibenz(a,h)anthracene	ppm	0.0288	0.0278	87.0	41-124	3.51	20	WG423440
Fluoranthene	ppm	0.0296	0.0277	90.0	50-114	6.66	20	WG423440
Fluorene	ppm	0.0268	0.0257	81.0	49-109	4.20	19	WG423440
Indeno(1,2,3-cd)pyrene	ppm	0.0292	0.0280	89.0	40-126	4.41	20	WG423440
Naphthalene	ppm	0.0239	0.0230	73.0	36-100	3.85	24	WG423440
Phenanthrene	ppm	0.0278	0.0268	84.0	46-108	3.57	21	WG423440
Pyrene	ppm	0.0279	0.0257	85.0	30-136	8.06	20	WG423440
2-Fluorobiphenyl				73.91	30-120			WG423440
Nitrobenzene-d5				71.07	18-119			WG423440
p-Terphenyl-d14				86.60	23-143			WG423440
1,1,1,2-Tetrachloroethane	mg/kg	0.0485	0.0481	97.0	73-134	0.746	20	WG423576
1,1,1-Trichloroethane	mg/kg	0.0413	0.0414	83.0	62-135	0.194	20	WG423576

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ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

June 01, 2009

L404176

		Laboratory Control Sample				Duplicate		
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,2,2-Tetrachloroethane	mg/kg	0.0495	0.0490	99.0	74-129	1.03	20	WG423576
1,1,2-Trichloroethane	mg/kg	0.0464	0.0460	93.0	77-124	0.887	20	WG423576
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0395	0.0395	79.0	49-155	0.144	20	WG423576
1,1-Dichloroethane	mg/kg	0.0451	0.0446	90.0	61-134	1.19	20	WG423576
1,1-Dichloroethene	mg/kg	0.0376	0.0375	75.0	53-136	0.402	20	WG423576
1,1-Dichloropropene	mg/kg	0.0411	0.0412	82.0	63-132	0.226	20	WG423576
1,2,3-Trichlorobenzene	mg/kg	0.0516	0.0517	103.	62-146	0.278	20	WG423576
1,2,3-Trichloropropane	mg/kg	0.0499	0.0486	100.	70-133	2.54	20	WG423576
1,2,4-Trichlorobenzene	mg/kg	0.0528	0.0541	106.	61-148	2.42	20	WG423576
1,2,4-Trimethylbenzene	mg/kg	0.0472	0.0463	94.0	68-135	1.95	20	WG423576
1,2-Dibromo-3-Chloropropane	mg/kg	0.0497	0.0487	99.0	61-134	1.96	21	WG423576
1,2-Dibromoethane	mg/kg	0.0494	0.0473	99.0	76-127	4.32	20	WG423576
1,2-Dichlorobenzene	mg/kg	0.0473	0.0479	95.0	77-123	1.10	20	WG423576
1,2-Dichloroethane	mg/kg	0.0416	0.0421	83.0	58-141	1.08	20	WG423576
1,2-Dichloropropane	mg/kg	0.0457	0.0476	91.0	71-128	4.11	20	WG423576
1,3,5-Trimethylbenzene	mg/kg	0.0469	0.0458	94.0	71-133	2.20	20	WG423576
1,3-Dichlorobenzene	mg/kg	0.0510	0.0501	102.	71-132	1.79	20	WG423576
1,3-Dichloropropane	mg/kg	0.0481	0.0467	96.0	76-120	2.91	20	WG423576
1,4-Dichlorobenzene	mg/kg	0.0462	0.0464	92.0	72-123	0.586	20	WG423576
2,2-Dichloropropane	mg/kg	0.0408	0.0409	82.0	50-147	0.152	20	WG423576
2-Butanone (MEK)	mg/kg	0.228	0.229	91.0	51-131	0.334	25	WG423576
2-Chloroethyl vinyl ether	mg/kg	0.144	0.194	58.0	0-188	29.3	39	WG423576
2-Chlorotoluene	mg/kg	0.0469	0.0459	94.0	73-128	2.01	20	WG423576
4-Chlorotoluene	mg/kg	0.0458	0.0452	92.0	72-129	1.35	20	WG423576
4-Methyl-2-pentanone (MIBK)	mg/kg	0.247	0.244	99.0	61-143	1.34	23	WG423576
Acetone	mg/kg	0.217	0.216	87.0	44-140	0.169	25	WG423576
Acrylonitrile	mg/kg	0.242	0.242	97.0	55-143	0.155	20	WG423576
Benzene	mg/kg	0.0429	0.0429	86.0	65-128	0.0430	20	WG423576
Bromobenzene	mg/kg	0.0437	0.0438	87.0	75-123	0.408	20	WG423576
Bromodichloromethane	mg/kg	0.0413	0.0415	83.0	66-126	0.551	20	WG423576
Bromoform	mg/kg	0.0496	0.0488	99.0	64-139	1.52	20	WG423576
Bromomethane	mg/kg	0.0344	0.0349	69.0	41-175	1.54	20	WG423576
Carbon tetrachloride	mg/kg	0.0375	0.0367	75.0	60-140	2.22	20	WG423576
Chlorobenzene	mg/kg	0.0467	0.0450	93.0	75-125	3.64	20	WG423576
Chlorodibromomethane	mg/kg	0.0453	0.0434	91.0	72-137	4.30	20	WG423576
Chloroethane	mg/kg	0.0369	0.0365	74.0	44-159	1.20	20	WG423576
Chloroform	mg/kg	0.0459	0.0457	92.0	63-123	0.343	20	WG423576
Chloromethane	mg/kg	0.0357	0.0356	71.0	42-149	0.187	20	WG423576
cis-1,2-Dichloroethene	mg/kg	0.0440	0.0443	88.0	71-129	0.816	20	WG423576
cis-1,3-Dichloropropene	mg/kg	0.0468	0.0476	94.0	73-132	1.71	20	WG423576
Di-isopropyl ether	mg/kg	0.0445	0.0455	89.0	59-143	2.16	20	WG423576
Dibromomethane	mg/kg	0.0456	0.0458	91.0	70-130	0.352	20	WG423576
Dichlorodifluoromethane	mg/kg	0.0312	0.0310	62.0	26-186	0.678	22	WG423576
Ethylbenzene	mg/kg	0.0471	0.0453	94.0	74-128	4.08	20	WG423576
Hexachloro-1,3-Butadiene	mg/kg	0.0531	0.0524	106.	65-137	1.30	20	WG423576
Isopropylbenzene	mg/kg	0.0467	0.0458	93.0	73-130	1.91	20	WG423576
Methyl tert-butyl ether	mg/kg	0.0420	0.0421	84.0	44-148	0.359	20	WG423576
Methylene Chloride	mg/kg	0.0405	0.0394	81.0	57-129	2.71	20	WG423576
n-Butylbenzene	mg/kg	0.0438	0.0440	88.0	60-145	0.395	20	WG423576
n-Propylbenzene	mg/kg	0.0454	0.0451	91.0	71-132	0.609	20	WG423576
Naphthalene	mg/kg	0.0559	0.0547	112.	61-142	2.18	20	WG423576
p-Isopropyltoluene	mg/kg	0.0462	0.0457	92.0	67-138	1.00	20	WG423576
sec-Butylbenzene	mg/kg	0.0483	0.0470	97.0	71-134	2.82	20	WG423576
Styrene	mg/kg	0.0490	0.0486	98.0	76-133	0.790	20	WG423576
tert-Butylbenzene	mg/kg	0.0461	0.0456	92.0	72-132	1.10	20	WG423576
Tetrachloroethene	mg/kg	0.0439	0.0419	88.0	65-135	4.72	20	WG423576
Toluene	mg/kg	0.0434	0.0441	87.0	70-120	1.67	20	WG423576
trans-1,2-Dichloroethene	mg/kg	0.0393	0.0400	79.0	61-133	1.75	20	WG423576
trans-1,3-Dichloropropene	mg/kg	0.0453	0.0453	91.0	70-135	0.0508	20	WG423576

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Quality Assurance Report
Level II

L404176

June 01, 2009

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
Trichloroethene	mg/kg	0.0452	0.0448	90.0	71-126	0.719	20	WG423576
Trichlorofluoromethane	mg/kg	0.0355	0.0352	71.0	52-147	0.753	20	WG423576
Vinyl chloride	mg/kg	0.0394	0.0385	79.0	50-151	2.20	20	WG423576
4-Bromofluorobenzene				99.21	59-140			WG423576
Dibromofluoromethane				89.56	63-139			WG423576
Toluene-d8				100.8	84-116			WG423576
1,2,4-Trichlorobenzene	ppm	0.00362	0.00418	36.0	26-103	14.5	38	WG423641
2,4,6-Trichlorophenol	ppm	0.00619	0.00751	62.0	49-118	19.4	28	WG423641
2,4-Dichlorophenol	ppm	0.00555	0.00690	56.0	46-115	21.6	28	WG423641
2,4-Dimethylphenol	ppm	0.00814	0.0104	81.0	40-124	24.1	36	WG423641
2,4-Dinitrophenol	ppm	0.00304	0.00451	30.0	10-125	38.9	50	WG423641
2,4-Dinitrotoluene	ppm	0.00756	0.00879	76.0	56-128	15.0	24	WG423641
2,6-Dinitrotoluene	ppm	0.00698	0.00774	70.0	56-121	10.3	23	WG423641
2-Chloronaphthalene	ppm	0.00619	0.00703	62.0	44-110	12.7	30	WG423641
2-Chlorophenol	ppm	0.00464	0.00552	46.0	38-114	17.3	36	WG423641
2-Nitrophenol	ppm	0.00589	0.00682	59.0	35-118	14.6	35	WG423641
3,3-Dichlorobenzidine	ppm	0.00801	0.00822	80.0	46-145	2.57	31	WG423641
4,6-Dinitro-2-methylphenol	ppm	0.00552	0.00697	55.0	24-119	23.2	50	WG423641
4-Bromophenyl-phenylether	ppm	0.00653	0.00688	65.0	45-105	5.21	26	WG423641
4-Chloro-3-methylphenol	ppm	0.00522	0.00669	52.0	47-116	24.7*	22	WG423641
4-Chlorophenyl-phenylether	ppm	0.00723	0.00790	72.0	49-116	8.86	26	WG423641
4-Nitrophenol	ppm	0.00188	0.00179	19.0	10-66	4.90	37	WG423641
Acenaphthene	ppm	0.00710	0.00801	71.0	48-110	12.0	26	WG423641
Acenaphthylene	ppm	0.00715	0.00804	71.0	48-113	11.8	28	WG423641
Anthracene	ppm	0.00781	0.00870	78.0	55-127	10.7	24	WG423641
Benzidine	ppm	0.000590	0.000622	6.00	0-46	5.23	50	WG423641
Benzo(a)anthracene	ppm	0.00850	0.00863	85.0	57-115	1.55	20	WG423641
Benzo(a)pyrene	ppm	0.00818	0.00903	82.0	63-125	9.87	22	WG423641
Benzo(b)fluoranthene	ppm	0.00838	0.00794	84.0	50-123	5.50	32	WG423641
Benzo(g,h,i)perylene	ppm	0.00980	0.0106	98.0	39-143	8.07	31	WG423641
Benzo(k)fluoranthene	ppm	0.00687	0.00856	69.0	45-126	21.9	37	WG423641
Benzylbutyl phthalate	ppm	0.00399	0.00378	40.0	22-154	5.50	29	WG423641
Bis(2-chlorethoxy)methane	ppm	0.00512	0.00596	51.0	42-116	15.0	38	WG423641
Bis(2-chloroethyl)ether	ppm	0.00366	0.00375	37.0	26-115	2.64	50	WG423641
Bis(2-chloroisopropyl)ether	ppm	0.00353	0.00402	35.0	32-115	12.9	47	WG423641
Bis(2-ethylhexyl)phthalate	ppm	0.00857	0.00736	86.0	47-143	15.1	24	WG423641
Chrysene	ppm	0.00731	0.00802	73.0	58-113	9.37	21	WG423641
Di-n-butyl phthalate	ppm	0.00626	0.00662	63.0	51-131	5.59	22	WG423641
Di-n-octyl phthalate	ppm	0.00792	0.00740	79.0	51-138	6.87	22	WG423641
Dibenz(a,h)anthracene	ppm	0.00948	0.0106	95.0	39-144	11.2	30	WG423641
Diethyl phthalate	ppm	0.00482	0.00545	48.0	36-128	12.2	27	WG423641
Dimethyl phthalate	ppm	0.00190	0.00222	19.0	10-135	15.6	33	WG423641
Fluoranthene	ppm	0.00789	0.00861	79.0	53-119	8.76	28	WG423641
Fluorene	ppm	0.00747	0.00833	75.0	49-116	10.8	25	WG423641
Hexachloro-1,3-butadiene	ppm	0.00397	0.00435	40.0	21-116	9.22	50	WG423641
Hexachlorobenzene	ppm	0.00780	0.00812	78.0	51-121	3.93	23	WG423641
Hexachlorocyclopentadiene	ppm	0.00303	0.00414	30.0	4-126	31.1	50	WG423641
Hexachloroethane	ppm	0.00224	0.00237	22.0	15-109	5.66	50	WG423641
Indeno(1,2,3-cd)pyrene	ppm	0.00956	0.0104	96.0	40-143	8.53	30	WG423641
Isophorone	ppm	0.00531	0.00596	53.0	48-126	11.7	31	WG423641
n-Nitrosodi-n-propylamine	ppm	0.00474	0.00556	47.0	47-122	15.9	33	WG423641
n-Nitrosodimethylamine	ppm	0.00206	0.00226	21.0	11-69	9.12	50	WG423641
n-Nitrosodiphenylamine	ppm	0.00694	0.00721	69.0	59-143	3.88	23	WG423641
Naphthalene	ppm	0.00436	0.00492	44.0	29-103	12.1	45	WG423641
Nitrobenzene	ppm	0.00384	0.00420	38.0	31-105	8.85	43	WG423641
Pentachlorophenol	ppm	0.00435	0.00467	43.0	20-122	7.10	50	WG423641
Phenanthrene	ppm	0.00750	0.00788	75.0	54-112	4.89	22	WG423641

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Quality Assurance Report
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L404176

June 01, 2009

		Laboratory Control Sample Duplicate						
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Phenol	ppm	0.00216	0.00253	22.0	17-52	15.8	33	WG423641
Pyrene	ppm	0.00811	0.00753	81.0	46-130	7.32	28	WG423641
2,4,6-Tribromophenol				74.94	10-148			WG423641
2-Fluorobiphenyl				64.37	26-122			WG423641
2-Fluorophenol				27.09	10-87			WG423641
Nitrobenzene-d5				38.95	12-120			WG423641
Phenol-d5				17.43	10-67			WG423641
p-Terphenyl-d14				101.3	34-149			WG423641
1-Methylnaphthalene	ppm	0.0208	0.0221	63.0	41-110	6.12	24	WG423537
2-Chloronaphthalene	ppm	0.0216	0.0215	65.0	43-109	0.423	21	WG423537
2-Methylnaphthalene	ppm	0.0202	0.0204	61.0	38-104	1.05	24	WG423537
Acenaphthene	ppm	0.0224	0.0223	68.0	48-103	0.741	20	WG423537
Acenaphthylene	ppm	0.0231	0.0223	70.0	43-106	3.44	20	WG423537
Anthracene	ppm	0.0230	0.0242	70.0	51-110	5.11	22	WG423537
Benzo(a)anthracene	ppm	0.0228	0.0240	69.0	38-126	5.34	20	WG423537
Benzo(a)pyrene	ppm	0.0242	0.0245	73.0	47-118	1.31	20	WG423537
Benzo(b)fluoranthene	ppm	0.0219	0.0250	66.0	47-118	13.4	29	WG423537
Benzo(g,h,i)perylene	ppm	0.0237	0.0240	72.0	40-125	1.47	20	WG423537
Benzo(k)fluoranthene	ppm	0.0277	0.0249	84.0	45-121	10.7	31	WG423537
Chrysene	ppm	0.0223	0.0222	68.0	35-135	0.691	20	WG423537
Dibenz(a,h)anthracene	ppm	0.0239	0.0240	72.0	41-124	0.569	20	WG423537
Fluoranthene	ppm	0.0235	0.0237	71.0	50-114	1.08	20	WG423537
Fluorene	ppm	0.0236	0.0233	72.0	49-109	1.46	19	WG423537
Indeno(1,2,3-cd)pyrene	ppm	0.0241	0.0244	73.0	40-126	1.16	20	WG423537
Naphthalene	ppm	0.0199	0.0198	60.0	36-100	0.359	24	WG423537
Phenanthrene	ppm	0.0229	0.0231	70.0	46-108	0.552	21	WG423537
Pyrene	ppm	0.0223	0.0227	68.0	30-136	1.81	20	WG423537
2-Fluorobiphenyl				59.39	30-120			WG423537
Nitrobenzene-d5				57.88	18-119			WG423537
p-Terphenyl-d14				65.45	23-143			WG423537

		Matrix Spike						
Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Mercury	mg/l	0.00311	0.00	.003	104.	70-130	L404165-03	WG423232
1,1,1,2-Tetrachloroethane	mg/l	0.0395	0.00	.05	78.9	45-152	L404165-01	WG423304
1,1,1-Trichloroethane	mg/l	0.0389	0.00	.05	77.7	31-161	L404165-01	WG423304
1,1,2,2-Tetrachloroethane	mg/l	0.0382	0.00	.05	76.5	49-149	L404165-01	WG423304
1,1,2-Trichloroethane	mg/l	0.0360	0.00	.05	72.1	46-145	L404165-01	WG423304
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0323	0.00	.05	64.6	14-168	L404165-01	WG423304
1,1-Dichloroethane	mg/l	0.0419	0.00	.05	83.7	30-159	L404165-01	WG423304
1,1-Dichloroethene	mg/l	0.0283	0.00	.05	56.5	10-162	L404165-01	WG423304
1,1-Dichloropropene	mg/l	0.0344	0.00	.05	68.9	14-162	L404165-01	WG423304
1,2,3-Trichlorobenzene	mg/l	0.0423	0.00	.05	84.5	32-143	L404165-01	WG423304
1,2,3-Trichloropropane	mg/l	0.0397	0.00	.05	79.5	48-148	L404165-01	WG423304
1,2,3-Trimethylbenzene	mg/l	0.0377	0.00	.05	75.4	36-141	L404165-01	WG423304
1,2,4-Trichlorobenzene	mg/l	0.0455	0.00	.05	91.1	27-142	L404165-01	WG423304
1,2,4-Trimethylbenzene	mg/l	0.0374	0.00	.05	74.9	29-153	L404165-01	WG423304
1,2-Dibromo-3-Chloropropane	mg/l	0.0395	0.00	.05	78.9	37-148	L404165-01	WG423304
1,2-Dibromoethane	mg/l	0.0351	0.00	.05	70.2	41-149	L404165-01	WG423304
1,2-Dichlorobenzene	mg/l	0.0408	0.00	.05	81.7	40-139	L404165-01	WG423304
1,2-Dichloroethane	mg/l	0.0435	0.00	.05	87.0	29-167	L404165-01	WG423304
1,2-Dichloropropane	mg/l	0.0386	0.00	.05	77.3	39-148	L404165-01	WG423304
1,3,5-Trimethylbenzene	mg/l	0.0361	0.00	.05	72.3	33-149	L404165-01	WG423304
1,3-Dichlorobenzene	mg/l	0.0390	0.00	.05	78.0	32-148	L404165-01	WG423304

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Quality Assurance Report
Level II

L404176

June 01, 2009

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,3-Dichloropropane	mg/l	0.0377	0.00	.05	75.3	44-142	L404165-01	WG423304
1,4-Dichlorobenzene	mg/l	0.0406	0.00	.05	81.1	32-136	L404165-01	WG423304
2,2-Dichloropropane	mg/l	0.0416	0.00	.05	83.2	14-158	L404165-01	WG423304
2-Butanone (MEK)	mg/l	0.188	0.00	.25	75.0	32-151	L404165-01	WG423304
2-Chloroethyl vinyl ether	mg/l	0.0385	0.00	.25	15.4	0-175	L404165-01	WG423304
2-Chlorotoluene	mg/l	0.0375	0.00	.05	75.0	35-147	L404165-01	WG423304
4-Chlorotoluene	mg/l	0.0370	0.00	.05	74.0	33-147	L404165-01	WG423304
4-Methyl-2-pentanone (MIBK)	mg/l	0.199	0.00	.25	79.8	40-160	L404165-01	WG423304
Acetone	mg/l	0.200	0.0150	.25	74.0	25-157	L404165-01	WG423304
Acrolein	mg/l	0.247	0.00	.25	98.9	0-179	L404165-01	WG423304
Acrylonitrile	mg/l	0.208	0.00	.25	83.3	37-162	L404165-01	WG423304
Benzene	mg/l	0.0363	0.00	.05	72.6	16-158	L404165-01	WG423304
Bromobenzene	mg/l	0.0377	0.00	.05	75.4	37-147	L404165-01	WG423304
Bromodichloromethane	mg/l	0.0380	0.00	.05	76.0	45-147	L404165-01	WG423304
Bromoform	mg/l	0.0365	0.00	.05	72.9	38-152	L404165-01	WG423304
Bromomethane	mg/l	0.0267	0.00	.05	53.4	0-191	L404165-01	WG423304
Carbon tetrachloride	mg/l	0.0381	0.00	.05	76.2	22-168	L404165-01	WG423304
Chlorobenzene	mg/l	0.0351	0.00	.05	70.2	33-148	L404165-01	WG423304
Chlorodibromomethane	mg/l	0.0360	0.00	.05	72.0	48-151	L404165-01	WG423304
Chloroethane	mg/l	0.0313	0.00	.05	62.5	4-176	L404165-01	WG423304
Chloroform	mg/l	0.0431	0.00	.05	86.3	37-147	L404165-01	WG423304
Chloromethane	mg/l	0.0277	0.00	.05	55.3	10-174	L404165-01	WG423304
cis-1,2-Dichloroethene	mg/l	0.0366	0.00	.05	73.2	29-156	L404165-01	WG423304
cis-1,3-Dichloropropene	mg/l	0.0405	0.00	.05	81.0	35-148	L404165-01	WG423304
Di-isopropyl ether	mg/l	0.0425	0.00	.05	85.0	39-160	L404165-01	WG423304
Dibromomethane	mg/l	0.0367	0.00	.05	73.4	36-152	L404165-01	WG423304
Dichlorodifluoromethane	mg/l	0.0267	0.00	.05	53.4	0-200	L404165-01	WG423304
Ethylbenzene	mg/l	0.0353	0.00	.05	70.5	29-150	L404165-01	WG423304
Hexachloro-1,3-Butadiene	mg/l	0.0463	0.00	.05	92.6	28-144	L404165-01	WG423304
Isopropylbenzene	mg/l	0.0356	0.00	.05	71.3	35-147	L404165-01	WG423304
Methyl tert-butyl ether	mg/l	0.0392	0.00	.05	78.5	24-167	L404165-01	WG423304
Methylene Chloride	mg/l	0.0329	0.00	.05	65.8	23-151	L404165-01	WG423304
n-Butylbenzene	mg/l	0.0407	0.00	.05	81.5	22-151	L404165-01	WG423304
n-Propylbenzene	mg/l	0.0364	0.00	.05	72.8	26-150	L404165-01	WG423304
Naphthalene	mg/l	0.0456	0.00	.05	91.2	24-160	L404165-01	WG423304
p-Isopropyltoluene	mg/l	0.0369	0.00	.05	73.7	28-151	L404165-01	WG423304
sec-Butylbenzene	mg/l	0.0376	0.00	.05	75.2	32-149	L404165-01	WG423304
Styrene	mg/l	0.0369	0.00	.05	73.8	38-149	L404165-01	WG423304
tert-Butylbenzene	mg/l	0.0366	0.00	.05	73.2	36-149	L404165-01	WG423304
Tetrachloroethene	mg/l	0.0286	0.00	.05	57.3	13-157	L404165-01	WG423304
Toluene	mg/l	0.0343	0.00	.05	68.6	22-152	L404165-01	WG423304
trans-1,2-Dichloroethene	mg/l	0.0299	0.00	.05	59.7	11-160	L404165-01	WG423304
trans-1,3-Dichloropropene	mg/l	0.0408	0.00	.05	81.6	33-153	L404165-01	WG423304
Trichloroethene	mg/l	0.0339	0.00	.05	67.8	18-163	L404165-01	WG423304
Trichlorofluoromethane	mg/l	0.0316	0.00	.05	63.2	10-177	L404165-01	WG423304
Vinyl chloride	mg/l	0.0309	0.00	.05	61.8	0-179	L404165-01	WG423304
4-Bromofluorobenzene					93.45	75-128		WG423304
Dibromofluoromethane					100.6	79-125		WG423304
Toluene-d8					103.1	87-114		WG423304
Mercury	mg/kg	0.249	0.0260	.25	89.2	70-130	L404086-06	WG423237
1,1,1,2-Tetrachloroethane	mg/kg	0.220	0.00	.05	87.9	29-145	L404119-01	WG423417
1,1,1-Trichloroethane	mg/kg	0.226	0.00	.05	90.3	23-147	L404119-01	WG423417
1,1,2,2-Tetrachloroethane	mg/kg	0.209	0.00	.05	83.7	18-150	L404119-01	WG423417
1,1,2-Trichloroethane	mg/kg	0.212	0.00	.05	84.7	35-140	L404119-01	WG423417
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.213	0.00	.05	85.0	10-145	L404119-01	WG423417

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ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404176

June 01, 2009

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1-Dichloroethane	mg/kg	0.205	0.00	.05	82.0	24-148	L404119-01	WG423417
1,1-Dichloroethene	mg/kg	0.206	0.00	.05	82.3	10-149	L404119-01	WG423417
1,1-Dichloropropene	mg/kg	0.195	0.00	.05	78.2	10-141	L404119-01	WG423417
1,2,3-Trichlorobenzene	mg/kg	0.172	0.00078	.05	68.6	10-129	L404119-01	WG423417
1,2,3-Trichloropropane	mg/kg	0.227	0.00	.05	90.9	30-148	L404119-01	WG423417
1,2,4-Trichlorobenzene	mg/kg	0.163	0.00041	.05	65.0	10-119	L404119-01	WG423417
1,2,4-Trimethylbenzene	mg/kg	0.197	0.00	.05	78.7	10-145	L404119-01	WG423417
1,2-Dibromo-3-Chloropropane	mg/kg	0.208	0.00	.05	83.2	19-145	L404119-01	WG423417
1,2-Dibromoethane	mg/kg	0.214	0.00	.05	85.6	24-145	L404119-01	WG423417
1,2-Dichlorobenzene	mg/kg	0.185	0.00	.05	74.1	12-130	L404119-01	WG423417
1,2-Dichloroethane	mg/kg	0.216	0.00065	.05	86.2	21-155	L404119-01	WG423417
1,2-Dichloropropane	mg/kg	0.202	0.00	.05	80.9	28-144	L404119-01	WG423417
1,3,5-Trimethylbenzene	mg/kg	0.201	0.00	.05	80.5	10-135	L404119-01	WG423417
1,3-Dichlorobenzene	mg/kg	0.193	0.00	.05	77.3	10-129	L404119-01	WG423417
1,3-Dichloropropane	mg/kg	0.205	0.00	.05	82.2	31-137	L404119-01	WG423417
1,4-Dichlorobenzene	mg/kg	0.176	0.00	.05	70.3	10-121	L404119-01	WG423417
2,2-Dichloropropane	mg/kg	0.209	0.00	.05	83.5	18-144	L404119-01	WG423417
2-Butanone (MEK)	mg/kg	0.897	0.00	.25	71.8	21-143	L404119-01	WG423417
2-Chloroethyl vinyl ether	mg/kg	1.16	0.00	.25	92.9	0-176	L404119-01	WG423417
2-Chlorotoluene	mg/kg	0.201	0.00	.05	80.4	10-132	L404119-01	WG423417
4-Chlorotoluene	mg/kg	0.193	0.00	.05	77.2	10-129	L404119-01	WG423417
4-Methyl-2-pentanone (MIBK)	mg/kg	1.06	0.00	.25	84.9	31-151	L404119-01	WG423417
Acetone	mg/kg	0.935	0.0874	.25	67.8	13-158	L404119-01	WG423417
Acrylonitrile	mg/kg	0.948	0.00	.25	75.8	20-154	L404119-01	WG423417
Benzene	mg/kg	0.191	0.00	.05	76.3	16-143	L404119-01	WG423417
Bromobenzene	mg/kg	0.199	0.00	.05	79.5	14-135	L404119-01	WG423417
Bromodichloromethane	mg/kg	0.219	0.00	.05	87.6	27-139	L404119-01	WG423417
Bromoform	mg/kg	0.222	0.00	.05	88.9	21-144	L404119-01	WG423417
Bromomethane	mg/kg	0.228	0.00038	.05	91.1	0-180	L404119-01	WG423417
Carbon tetrachloride	mg/kg	0.210	0.00048	.05	83.9	12-149	L404119-01	WG423417
Chlorobenzene	mg/kg	0.202	0.00	.05	80.7	17-134	L404119-01	WG423417
Chlorodibromomethane	mg/kg	0.222	0.00	.05	88.7	28-147	L404119-01	WG423417
Chloroethane	mg/kg	0.220	0.00	.05	88.1	0-172	L404119-01	WG423417
Chloroform	mg/kg	0.202	0.00089	.05	80.5	28-138	L404119-01	WG423417
Chloromethane	mg/kg	0.178	0.00	.05	71.0	10-158	L404119-01	WG423417
cis-1,2-Dichloroethene	mg/kg	0.197	0.00	.05	79.0	21-147	L404119-01	WG423417
cis-1,3-Dichloropropene	mg/kg	0.205	0.00	.05	82.1	17-145	L404119-01	WG423417
Di-isopropyl ether	mg/kg	0.203	0.00	.05	81.3	31-153	L404119-01	WG423417
Dibromomethane	mg/kg	0.207	0.00	.05	82.7	24-147	L404119-01	WG423417
Dichlorodifluoromethane	mg/kg	0.195	0.00	.05	78.1	0-192	L404119-01	WG423417
Ethylbenzene	mg/kg	0.202	0.00	.05	80.8	12-137	L404119-01	WG423417
Hexachloro-1,3-Butadiene	mg/kg	0.152	0.00	.05	60.9	10-123	L404119-01	WG423417
Isopropylbenzene	mg/kg	0.210	0.00	.05	83.9	14-134	L404119-01	WG423417
Methyl tert-butyl ether	mg/kg	0.194	0.00	.05	77.6	21-157	L404119-01	WG423417
Methylene Chloride	mg/kg	0.199	0.00	.05	79.4	12-149	L404119-01	WG423417
n-Butylbenzene	mg/kg	0.171	0.00	.05	68.2	10-130	L404119-01	WG423417
n-Propylbenzene	mg/kg	0.202	0.00	.05	80.9	10-130	L404119-01	WG423417
Naphthalene	mg/kg	0.172	0.0141	.05	63.3	0-146	L404119-01	WG423417
p-Isopropyltoluene	mg/kg	0.196	0.00	.05	78.6	10-131	L404119-01	WG423417
sec-Butylbenzene	mg/kg	0.198	0.00	.05	79.1	10-134	L404119-01	WG423417
Styrene	mg/kg	0.206	0.00	.05	82.3	10-140	L404119-01	WG423417
tert-Butylbenzene	mg/kg	0.208	0.00	.05	83.3	11-137	L404119-01	WG423417
Tetrachloroethene	mg/kg	0.203	0.00	.05	81.3	10-131	L404119-01	WG423417
Toluene	mg/kg	0.198	0.00	.05	79.2	12-136	L404119-01	WG423417
trans-1,2-Dichloroethene	mg/kg	0.200	0.00	.05	79.9	10-143	L404119-01	WG423417
trans-1,3-Dichloropropene	mg/kg	0.193	0.00192	.05	76.3	16-147	L404119-01	WG423417
Trichloroethene	mg/kg	0.215	0.00	.05	86.0	10-155	L404119-01	WG423417
Trichlorofluoromethane	mg/kg	0.246	0.00	.05	98.5	10-154	L404119-01	WG423417
Vinyl chloride	mg/kg	0.192	0.00	.05	76.9	10-159	L404119-01	WG423417

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ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404176

June 01, 2009

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
4-Bromofluorobenzene					100.3	59-140		
Dibromofluoromethane					93.52	63-139		
Toluene-d8					99.41	84-116		
1,1,1,2-Tetrachloroethane	mg/kg	0.202	0.00	.05	81.0	29-145	L404274-01	WG423576
1,1,1-Trichloroethane	mg/kg	0.174	0.00	.05	69.7	23-147	L404274-01	WG423576
1,1,2,2-Tetrachloroethane	mg/kg	0.188	0.00	.05	75.3	18-150	L404274-01	WG423576
1,1,2-Trichloroethane	mg/kg	0.190	0.00	.05	75.9	35-140	L404274-01	WG423576
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.164	0.00	.05	65.5	10-145	L404274-01	WG423576
1,1-Dichloroethane	mg/kg	0.189	0.00	.05	75.4	24-148	L404274-01	WG423576
1,1-Dichloroethene	mg/kg	0.157	0.00	.05	62.8	10-149	L404274-01	WG423576
1,1-Dichloropropene	mg/kg	0.168	0.00	.05	67.3	10-141	L404274-01	WG423576
1,2,3-Trichlorobenzene	mg/kg	0.205	0.00	.05	82.2	10-129	L404274-01	WG423576
1,2,3-Trichloropropane	mg/kg	0.191	0.00	.05	76.4	30-148	L404274-01	WG423576
1,2,4-Trichlorobenzene	mg/kg	0.222	0.00	.05	88.8	10-119	L404274-01	WG423576
1,2,4-Trimethylbenzene	mg/kg	0.192	0.00	.05	76.8	10-145	L404274-01	WG423576
1,2-Dibromo-3-Chloropropane	mg/kg	0.195	0.00	.05	77.8	19-145	L404274-01	WG423576
1,2-Dibromoethane	mg/kg	0.195	0.00	.05	77.8	24-145	L404274-01	WG423576
1,2-Dichlorobenzene	mg/kg	0.203	0.00	.05	81.1	12-130	L404274-01	WG423576
1,2-Dichloroethane	mg/kg	0.172	0.00	.05	68.9	21-155	L404274-01	WG423576
1,2-Dichloropropane	mg/kg	0.201	0.00	.05	80.6	28-144	L404274-01	WG423576
1,3,5-Trimethylbenzene	mg/kg	0.190	0.00	.05	75.9	10-135	L404274-01	WG423576
1,3-Dichlorobenzene	mg/kg	0.208	0.00	.05	83.0	10-129	L404274-01	WG423576
1,3-Dichloropropane	mg/kg	0.194	0.00	.05	77.7	31-137	L404274-01	WG423576
1,4-Dichlorobenzene	mg/kg	0.195	0.00	.05	77.9	10-121	L404274-01	WG423576
2,2-Dichloropropane	mg/kg	0.174	0.00	.05	69.7	18-144	L404274-01	WG423576
2-Butanone (MEK)	mg/kg	0.858	0.00	.25	68.6	21-143	L404274-01	WG423576
2-Chloroethyl vinyl ether	mg/kg	0.630	0.00	.25	50.4	0-176	L404274-01	WG423576
2-Chlorotoluene	mg/kg	0.192	0.00	.05	76.9	10-132	L404274-01	WG423576
4-Chlorotoluene	mg/kg	0.188	0.00	.05	75.2	10-129	L404274-01	WG423576
4-Methyl-2-pentanone (MIBK)	mg/kg	0.922	0.00	.25	73.8	31-151	L404274-01	WG423576
Acetone	mg/kg	0.820	0.0710	.25	59.9	13-158	L404274-01	WG423576
Acrylonitrile	mg/kg	0.923	0.00	.25	73.9	20-154	L404274-01	WG423576
Benzene	mg/kg	0.175	0.00	.05	70.1	16-143	L404274-01	WG423576
Bromobenzene	mg/kg	0.182	0.00	.05	73.0	14-135	L404274-01	WG423576
Bromodichloromethane	mg/kg	0.171	0.00	.05	68.2	27-139	L404274-01	WG423576
Bromoform	mg/kg	0.197	0.00	.05	79.0	21-144	L404274-01	WG423576
Bromomethane	mg/kg	0.140	0.00	.05	56.0	0-180	L404274-01	WG423576
Carbon tetrachloride	mg/kg	0.175	0.00	.05	69.9	12-149	L404274-01	WG423576
Chlorobenzene	mg/kg	0.192	0.00	.05	76.6	17-134	L404274-01	WG423576
Chlorodibromomethane	mg/kg	0.182	0.00	.05	72.9	28-147	L404274-01	WG423576
Chloroethane	mg/kg	0.156	0.00	.05	62.5	0-172	L404274-01	WG423576
Chloroform	mg/kg	0.193	0.00	.05	77.1	28-138	L404274-01	WG423576
Chloromethane	mg/kg	0.153	0.00	.05	61.1	10-158	L404274-01	WG423576
cis-1,2-Dichloroethene	mg/kg	0.184	0.00	.05	73.6	21-147	L404274-01	WG423576
cis-1,3-Dichloropropene	mg/kg	0.193	0.00	.05	77.3	17-145	L404274-01	WG423576
Di-isopropyl ether	mg/kg	0.189	0.00	.05	75.5	31-153	L404274-01	WG423576
Dibromomethane	mg/kg	0.177	0.00	.05	70.8	24-147	L404274-01	WG423576
Dichlorodifluoromethane	mg/kg	0.131	0.00	.05	52.3	0-192	L404274-01	WG423576
Ethylbenzene	mg/kg	0.190	0.00	.05	75.9	12-137	L404274-01	WG423576
Hexachloro-1,3-Butadiene	mg/kg	0.207	0.00	.05	82.8	10-123	L404274-01	WG423576
Isopropylbenzene	mg/kg	0.193	0.00	.05	77.2	14-134	L404274-01	WG423576
Methyl tert-butyl ether	mg/kg	0.172	0.00	.05	68.7	21-157	L404274-01	WG423576
Methylene Chloride	mg/kg	0.166	0.00	.05	66.3	12-149	L404274-01	WG423576
n-Butylbenzene	mg/kg	0.186	0.00	.05	74.3	10-130	L404274-01	WG423576
n-Propylbenzene	mg/kg	0.188	0.00	.05	75.1	10-130	L404274-01	WG423576
Naphthalene	mg/kg	0.205	0.00	.05	81.9	0-146	L404274-01	WG423576
p-Isopropyltoluene	mg/kg	0.190	0.00	.05	75.9	10-131	L404274-01	WG423576
sec-Butylbenzene	mg/kg	0.196	0.00	.05	78.3	10-134	L404274-01	WG423576
Styrene	mg/kg	0.200	0.00	.05	79.8	10-140	L404274-01	WG423576

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ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404176

June 01, 2009

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
tert-Butylbenzene	mg/kg	0.194	0.00	.05	77.7	11-137	L404274-01	WG423576
Tetrachloroethene	mg/kg	0.175	0.00	.05	69.8	10-131	L404274-01	WG423576
Toluene	mg/kg	0.180	0.00	.05	72.0	12-136	L404274-01	WG423576
trans-1,2-Dichloroethene	mg/kg	0.163	0.00	.05	65.2	10-143	L404274-01	WG423576
trans-1,3-Dichloropropene	mg/kg	0.187	0.00	.05	74.6	16-147	L404274-01	WG423576
Trichloroethene	mg/kg	0.186	0.00	.05	74.5	10-155	L404274-01	WG423576
Trichlorofluoromethane	mg/kg	0.145	0.00	.05	57.9	10-154	L404274-01	WG423576
Vinyl chloride	mg/kg	0.158	0.00	.05	63.3	10-159	L404274-01	WG423576
4-Bromofluorobenzene					95.82	59-140		WG423576
Dibromofluoromethane					90.56	63-139		WG423576
Toluene-d8					100.5	84-116		WG423576
1,2,4-Trichlorobenzene	ppm	0.00546	0.00	.01	54.6	18-105	L404219-04	WG423641
2,4,6-Trichlorophenol	ppm	0.00729	0.00	.01	72.9	10-137	L404219-04	WG423641
2,4-Dichlorophenol	ppm	0.00708	0.00	.01	70.8	10-133	L404219-04	WG423641
2,4-Dimethylphenol	ppm	0.00782	0.00	.01	78.2	10-142	L404219-04	WG423641
2,4-Dinitrophenol	ppm	0.00601	0.00	.01	60.1	10-150	L404219-04	WG423641
2,4-Dinitrotoluene	ppm	0.00835	0.00	.01	83.5	32-137	L404219-04	WG423641
2,6-Dinitrotoluene	ppm	0.00787	0.00	.01	78.7	35-123	L404219-04	WG423641
2-Chloronaphthalene	ppm	0.00718	0.00	.01	71.8	33-109	L404219-04	WG423641
2-Chlorophenol	ppm	0.00591	0.00	.01	59.1	10-155	L404219-04	WG423641
2-Nitrophenol	ppm	0.00747	0.00	.01	74.7	12-121	L404219-04	WG423641
3,3-Dichlorobenzidine	ppm	0.00071	0.00	.01	7.11*	10-135	L404219-04	WG423641
4,6-Dinitro-2-methylphenol	ppm	0.00744	0.00	.01	74.4	0-138	L404219-04	WG423641
4-Bromophenyl-phenylether	ppm	0.00590	0.00	.01	59.0	35-102	L404219-04	WG423641
4-Chloro-3-methylphenol	ppm	0.00621	0.00	.01	62.1	10-136	L404219-04	WG423641
4-Chlorophenyl-phenylether	ppm	0.00737	0.00	.01	73.7	39-116	L404219-04	WG423641
4-Nitrophenol	ppm	0.00231	0.00	.01	23.1	13-59	L404219-04	WG423641
Acenaphthene	ppm	0.00750	0.00	.01	75.0	39-112	L404219-04	WG423641
Acenaphthylene	ppm	0.00808	0.00	.01	80.8	37-114	L404219-04	WG423641
Anthracene	ppm	0.00807	0.00	.01	80.7	44-136	L404219-04	WG423641
Benzidine	ppm	0.00019	0.00	.01	1.94	0-25	L404219-04	WG423641
Benzo(a)anthracene	ppm	0.00759	0.00	.01	75.9	43-117	L404219-04	WG423641
Benzo(a)pyrene	ppm	0.00767	0.00	.01	76.7	33-137	L404219-04	WG423641
Benzo(b)fluoranthene	ppm	0.00815	0.00	.01	81.5	35-128	L404219-04	WG423641
Benzo(g,h,i)perylene	ppm	0.00599	0.00	.01	59.9	10-139	L404219-04	WG423641
Benzo(k)fluoranthene	ppm	0.00666	0.00	.01	66.6	36-119	L404219-04	WG423641
Benzylbutyl phthalate	ppm	0.00343	0.00	.01	34.3*	47-121	L404219-04	WG423641
Bis(2-chlorethoxy)methane	ppm	0.00621	0.00	.01	62.1	21-135	L404219-04	WG423641
Bis(2-chloroethyl)ether	ppm	0.00488	0.00	.01	48.8	10-134	L404219-04	WG423641
Bis(2-chloroisopropyl)ether	ppm	0.00498	0.00	.01	49.8	14-124	L404219-04	WG423641
Bis(2-ethylhexyl)phthalate	ppm	0.00676	0.00	.01	67.6	10-115	L404219-04	WG423641
Chrysene	ppm	0.00774	0.00	.01	77.4	41-117	L404219-04	WG423641
Di-n-butyl phthalate	ppm	0.00609	0.00	.01	60.9	46-121	L404219-04	WG423641
Di-n-octyl phthalate	ppm	0.00667	0.00	.01	66.7	22-109	L404219-04	WG423641
Dibenz(a,h)anthracene	ppm	0.00592	0.00	.01	59.2	10-145	L404219-04	WG423641
Diethyl phthalate	ppm	0.00487	0.00	.01	48.7	23-132	L404219-04	WG423641
Dimethyl phthalate	ppm	0.00188	0.00	.01	18.8*	42-107	L404219-04	WG423641
Fluoranthene	ppm	0.00811	0.00	.01	81.1	36-130	L404219-04	WG423641
Fluorene	ppm	0.00834	0.00	.01	83.4	37-120	L404219-04	WG423641
Hexachloro-1,3-butadiene	ppm	0.00544	0.00	.01	54.4	16-118	L404219-04	WG423641
Hexachlorobenzene	ppm	0.00705	0.00	.01	70.5	41-114	L404219-04	WG423641
Hexachlorocyclopentadiene	ppm	0.00454	0.00	.01	45.4	0-132	L404219-04	WG423641
Hexachloroethane	ppm	0.00370	0.00	.01	37.0	10-125	L404219-04	WG423641
Indeno(1,2,3-cd)pyrene	ppm	0.00602	0.00	.01	60.2	10-138	L404219-04	WG423641
Isophorone	ppm	0.00611	0.00	.01	61.1	32-131	L404219-04	WG423641
n-Nitrosodi-n-propylamine	ppm	0.00534	0.00	.01	53.4	20-145	L404219-04	WG423641
n-Nitrosodimethylamine	ppm	0.00222	0.00	.01	22.2	0-75	L404219-04	WG423641

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12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404176

June 01, 2009

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
n-Nitrosodiphenylamine	ppm	0.00693	0.00	.01	69.3	10-171	L404219-04	WG423641
Naphthalene	ppm	0.00604	0.00	.01	60.4	14-114	L404219-04	WG423641
Nitrobenzene	ppm	0.00510	0.00	.01	51.0	14-122	L404219-04	WG423641
Pentachlorophenol	ppm	0.00831	0.00	.01	83.1	0-137	L404219-04	WG423641
Phenanthrene	ppm	0.00715	0.00	.01	71.5	38-121	L404219-04	WG423641
Phenol	ppm	0.00254	0.00	.01	25.4	10-68	L404219-04	WG423641
Pyrene	ppm	0.00803	0.00	.01	80.3	27-136	L404219-04	WG423641
2,4,6-Tribromophenol					80.55	10-148		WG423641
2-Fluorobiphenyl					73.03	26-122		WG423641
2-Fluorophenol					33.99	10-87		WG423641
Nitrobenzene-d5					51.97	12-120		WG423641
Phenol-d5					21.21	10-67		WG423641
p-Terphenyl-d14					88.76	34-149		WG423641
Arsenic	mg/kg	42.7	2.72	50	80.0	75-125	L404107-18	WG423772
Barium	mg/kg	147.	75.5	50	143.*	75-125	L404107-18	WG423772
Cadmium	mg/kg	42.4	0.225	50	84.4	75-125	L404107-18	WG423772
Chromium	mg/kg	59.1	16.2	50	85.8	75-125	L404107-18	WG423772
Lead	mg/kg	46.8	5.70	50	82.2	75-125	L404107-18	WG423772
Selenium	mg/kg	39.6	1.71	50	75.8	75-125	L404107-18	WG423772
Silver	mg/kg	44.4	0.643	50	87.5	75-125	L404107-18	WG423772
1-Methylnaphthalene	ppm	0.0742	0.0300	.033	26.8	19-131	L403980-04	WG423440
2-Chloronaphthalene	ppm	0.0291	0.00	.033	17.6*	38-117	L403980-04	WG423440
2-Methylnaphthalene	ppm	0.0618	0.00	.033	37.5	18-125	L403980-04	WG423440
Acenaphthene	ppm	0.0327	0.00	.033	19.8*	31-120	L403980-04	WG423440
Acenaphthylene	ppm	0.0353	0.00	.033	21.4*	34-116	L403980-04	WG423440
Anthracene	ppm	0.0303	0.00	.033	18.4*	32-131	L403980-04	WG423440
Benzo(a)anthracene	ppm	0.0300	0.00	.033	18.2*	32-131	L403980-04	WG423440
Benzo(a)pyrene	ppm	0.0340	0.00	.033	20.6*	28-130	L403980-04	WG423440
Benzo(b)fluoranthene	ppm	0.0414	0.00	.033	25.1*	37-130	L403980-04	WG423440
Benzo(g,h,i)perylene	ppm	0.0191	0.00	.033	11.6	10-134	L403980-04	WG423440
Benzo(k)fluoranthene	ppm	0.0403	0.00	.033	24.4*	31-129	L403980-04	WG423440
Chrysene	ppm	0.0316	0.00	.033	19.1*	25-137	L403980-04	WG423440
Dibenz(a,h)anthracene	ppm	0.0167	0.00	.033	10.2*	20-134	L403980-04	WG423440
Fluoranthene	ppm	0.0399	0.00	.033	24.2*	27-138	L403980-04	WG423440
Fluorene	ppm	0.0357	0.00	.033	21.6*	26-136	L403980-04	WG423440
Indeno(1,2,3-cd)pyrene	ppm	0.0169	0.00	.033	10.3*	16-135	L403980-04	WG423440
Naphthalene	ppm	0.0393	0.00	.033	23.8	22-121	L403980-04	WG423440
Phenanthrene	ppm	0.0392	0.00	.033	23.8*	27-133	L403980-04	WG423440
Pyrene	ppm	0.0381	0.00	.033	23.1	22-133	L403980-04	WG423440
2-Fluorobiphenyl					79.35	30-120		WG423440
Nitrobenzene-d5					56.30	18-119		WG423440
p-Terphenyl-d14					89.05	23-143		WG423440
1-Methylnaphthalene	ppm	0.0226	0.00	.033	68.5	19-131	L404176-05	WG423537
2-Chloronaphthalene	ppm	0.0239	0.00	.033	72.5	38-117	L404176-05	WG423537
2-Methylnaphthalene	ppm	0.0244	0.00	.033	73.9	18-125	L404176-05	WG423537
Acenaphthene	ppm	0.0243	0.00	.033	73.7	31-120	L404176-05	WG423537
Acenaphthylene	ppm	0.0244	0.00	.033	73.8	34-116	L404176-05	WG423537
Anthracene	ppm	0.0245	0.00	.033	74.3	32-131	L404176-05	WG423537
Benzo(a)anthracene	ppm	0.0248	0.00	.033	75.1	32-131	L404176-05	WG423537
Benzo(a)pyrene	ppm	0.0249	0.00	.033	75.5	28-130	L404176-05	WG423537
Benzo(b)fluoranthene	ppm	0.0252	0.00	.033	76.4	37-130	L404176-05	WG423537
Benzo(g,h,i)perylene	ppm	0.0294	0.00	.033	89.0	10-134	L404176-05	WG423537
Benzo(k)fluoranthene	ppm	0.0272	0.00	.033	82.4	31-129	L404176-05	WG423537

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SCIENCE CORP.

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Mt. Juliet, TN 37122
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1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404176

June 01, 2009

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Chrysene	ppm	0.0218	0.00	.033	66.2	25-137	L404176-05	WG423537
Dibenz(a,h)anthracene	ppm	0.0280	0.00	.033	84.7	20-134	L404176-05	WG423537
Fluoranthene	ppm	0.0255	0.00	.033	77.3	27-138	L404176-05	WG423537
Fluorene	ppm	0.0261	0.00	.033	79.2	26-136	L404176-05	WG423537
Indeno(1,2,3-cd)pyrene	ppm	0.0283	0.00	.033	85.7	16-135	L404176-05	WG423537
Naphthalene	ppm	0.0228	0.00	.033	69.1	22-121	L404176-05	WG423537
Phenanthrene	ppm	0.0249	0.00	.033	75.4	27-133	L404176-05	WG423537
Pyrene	ppm	0.0239	0.00	.033	72.4	22-133	L404176-05	WG423537
2-Fluorobiphenyl					63.88	30-120		WG423537
Nitrobenzene-d5					70.81	18-119		WG423537
p-Terphenyl-d14					69.08	23-143		WG423537
Arsenic	mg/l	1.09	0.0167	1.13	95.0	75-125	L404219-04	WG423976
Barium	mg/l	1.40	0.330	1.13	94.7	75-125	L404219-04	WG423976
Cadmium	mg/l	1.08	0.00	1.13	95.6	75-125	L404219-04	WG423976
Chromium	mg/l	1.07	0.00	1.13	94.7	75-125	L404219-04	WG423976
Lead	mg/l	1.10	0.00900	1.13	96.5	75-125	L404219-04	WG423976
Selenium	mg/l	0.982	0.00	1.13	86.9	75-125	L404219-04	WG423976
Silver	mg/l	0.0661	0.00	1.13	5.85*	75-125	L404219-04	WG423976

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Mercury	mg/l	0.0030	0.0031	102.	70-130	1.29	20	L404165-03	WG423232
1,1,1,2-Tetrachloroethane	mg/l	0.0403	0.0395	80.6	45-152	2.12	21	L404165-01	WG423304
1,1,1-Trichloroethane	mg/l	0.0392	0.0389	78.5	31-161	0.994	23	L404165-01	WG423304
1,1,2,2-Tetrachloroethane	mg/l	0.0410	0.0382	82.1	49-149	7.06	22	L404165-01	WG423304
1,1,2-Trichloroethane	mg/l	0.0379	0.0360	75.8	46-145	5.03	20	L404165-01	WG423304
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0331	0.0323	66.1	14-168	2.34	24	L404165-01	WG423304
1,1-Dichloroethane	mg/l	0.0423	0.0419	84.6	30-159	1.01	21	L404165-01	WG423304
1,1-Dichloroethene	mg/l	0.0289	0.0283	57.9	10-162	2.40	23	L404165-01	WG423304
1,1-Dichloropropene	mg/l	0.0351	0.0344	70.2	14-162	1.87	23	L404165-01	WG423304
1,2,3-Trichlorobenzene	mg/l	0.0441	0.0423	88.1	32-143	4.16	33	L404165-01	WG423304
1,2,3-Trichloropropane	mg/l	0.0426	0.0397	85.3	48-148	7.04	23	L404165-01	WG423304
1,2,3-Trimethylbenzene	mg/l	0.0383	0.0377	76.5	36-141	1.50	25	L404165-01	WG423304
1,2,4-Trichlorobenzene	mg/l	0.0459	0.0455	91.8	27-142	0.867	30	L404165-01	WG423304
1,2,4-Trimethylbenzene	mg/l	0.0384	0.0374	76.8	29-153	2.52	27	L404165-01	WG423304
1,2-Dibromo-3-Chloropropane	mg/l	0.0425	0.0395	85.0	37-148	7.41	27	L404165-01	WG423304
1,2-Dibromoethane	mg/l	0.0385	0.0351	77.0	41-149	9.27	21	L404165-01	WG423304
1,2-Dichlorobenzene	mg/l	0.0425	0.0408	84.9	40-139	3.87	23	L404165-01	WG423304
1,2-Dichloroethane	mg/l	0.0435	0.0435	87.0	29-167	0.061	21	L404165-01	WG423304
1,2-Dichloropropane	mg/l	0.0421	0.0386	84.1	39-148	8.47	20	L404165-01	WG423304
1,3,5-Trimethylbenzene	mg/l	0.0377	0.0361	75.4	33-149	4.21	26	L404165-01	WG423304
1,3-Dichlorobenzene	mg/l	0.0407	0.0390	81.4	32-148	4.18	24	L404165-01	WG423304
1,3-Dichloropropane	mg/l	0.0396	0.0377	79.1	44-142	4.89	20	L404165-01	WG423304
1,4-Dichlorobenzene	mg/l	0.0403	0.0406	80.6	32-136	0.718	23	L404165-01	WG423304
2,2-Dichloropropane	mg/l	0.0405	0.0416	80.9	14-158	2.84	23	L404165-01	WG423304
2-Butanone (MEK)	mg/l	0.195	0.188	78.2	32-151	4.11	26	L404165-01	WG423304
2-Chloroethyl vinyl ether	mg/l	0.0023	0.0385	0.934	0-175	177.*	75	L404165-01	WG423304
2-Chlorotoluene	mg/l	0.0387	0.0375	77.4	35-147	3.16	24	L404165-01	WG423304
4-Chlorotoluene	mg/l	0.0386	0.0370	77.1	33-147	4.06	25	L404165-01	WG423304
4-Methyl-2-pentanone (MIBK)	mg/l	0.215	0.199	85.8	40-160	7.29	28	L404165-01	WG423304
Acetone	mg/l	0.211	0.200	78.6	25-157	5.63	26	L404165-01	WG423304
Acrolein	mg/l	0.261	0.247	105.	0-179	5.54	39	L404165-01	WG423304
Acrylonitrile	mg/l	0.222	0.208	88.9	37-162	6.50	24	L404165-01	WG423304
Benzene	mg/l	0.0361	0.0363	72.2	16-158	0.567	21	L404165-01	WG423304

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1-800-767-5859
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Quality Assurance Report
Level II

L404176

June 01, 2009

Analyte	Units	Matrix Spike MSD	Ref	%Rec	Limit	RPD	Limit	Duplicate Ref Samp	Batch
Bromobenzene	mg/l	0.0384	0.0377	76.7	37-147	1.77	23	L404165-01	WG423304
Bromodichloromethane	mg/l	0.0388	0.0380	77.6	45-147	2.07	20	L404165-01	WG423304
Bromoform	mg/l	0.0393	0.0365	78.6	38-152	7.44	20	L404165-01	WG423304
Bromomethane	mg/l	0.0254	0.0267	50.8	0-191	4.97	35	L404165-01	WG423304
Carbon tetrachloride	mg/l	0.0385	0.0381	77.0	22-168	1.00	24	L404165-01	WG423304
Chlorobenzene	mg/l	0.0365	0.0351	73.0	33-148	4.01	22	L404165-01	WG423304
Chlorodibromomethane	mg/l	0.0382	0.0360	76.4	48-151	5.98	21	L404165-01	WG423304
Chloroethane	mg/l	0.0313	0.0313	62.6	4-176	0.077	27	L404165-01	WG423304
Chloroform	mg/l	0.0439	0.0431	87.8	37-147	1.72	21	L404165-01	WG423304
Chloromethane	mg/l	0.0276	0.0277	55.2	10-174	0.209	28	L404165-01	WG423304
cis-1,2-Dichloroethene	mg/l	0.0379	0.0366	75.7	29-156	3.33	22	L404165-01	WG423304
cis-1,3-Dichloropropene	mg/l	0.0419	0.0405	83.8	35-148	3.38	21	L404165-01	WG423304
Di-isopropyl ether	mg/l	0.0432	0.0425	86.4	39-160	1.68	21	L404165-01	WG423304
Dibromomethane	mg/l	0.0393	0.0367	78.5	36-152	6.71	20	L404165-01	WG423304
Dichlorodifluoromethane	mg/l	0.0274	0.0267	54.8	0-200	2.65	26	L404165-01	WG423304
Ethylbenzene	mg/l	0.0361	0.0353	72.1	29-150	2.29	24	L404165-01	WG423304
Hexachloro-1,3-Butadiene	mg/l	0.0463	0.0463	92.7	28-144	0.046	33	L404165-01	WG423304
Isopropylbenzene	mg/l	0.0374	0.0356	74.9	35-147	4.97	25	L404165-01	WG423304
Methyl tert-butyl ether	mg/l	0.0407	0.0392	81.4	24-167	3.69	22	L404165-01	WG423304
Methylene Chloride	mg/l	0.0336	0.0329	67.1	23-151	1.93	21	L404165-01	WG423304
n-Butylbenzene	mg/l	0.0408	0.0407	81.6	22-151	0.109	29	L404165-01	WG423304
n-Propylbenzene	mg/l	0.0377	0.0364	75.4	26-150	3.41	25	L404165-01	WG423304
Naphthalene	mg/l	0.0478	0.0456	95.7	24-160	4.82	37	L404165-01	WG423304
p-Isopropyltoluene	mg/l	0.0382	0.0369	76.4	28-151	3.58	27	L404165-01	WG423304
sec-Butylbenzene	mg/l	0.0389	0.0376	77.8	32-149	3.39	26	L404165-01	WG423304
Styrene	mg/l	0.0384	0.0369	76.8	38-149	3.97	23	L404165-01	WG423304
tert-Butylbenzene	mg/l	0.0380	0.0366	76.1	36-149	3.87	26	L404165-01	WG423304
Tetrachloroethene	mg/l	0.0299	0.0286	59.8	13-157	4.24	24	L404165-01	WG423304
Toluene	mg/l	0.0359	0.0343	71.8	22-152	4.60	22	L404165-01	WG423304
trans-1,2-Dichloroethene	mg/l	0.0303	0.0299	60.5	11-160	1.32	23	L404165-01	WG423304
trans-1,3-Dichloropropene	mg/l	0.0419	0.0408	83.8	33-153	2.67	22	L404165-01	WG423304
Trichloroethene	mg/l	0.0349	0.0339	69.8	18-163	2.97	21	L404165-01	WG423304
Trichlorofluoromethane	mg/l	0.0318	0.0316	63.7	10-177	0.687	24	L404165-01	WG423304
Vinyl chloride	mg/l	0.0307	0.0309	61.4	0-179	0.621	26	L404165-01	WG423304
4-Bromofluorobenzene				95.00	75-128				WG423304
Dibromofluoromethane				96.84	79-125				WG423304
Toluene-d8				103.4	87-114				WG423304
Mercury	mg/kg	0.249	0.249	89.2	70-130	0.00	20	L404086-06	WG423237
1,1,1,2-Tetrachloroethane	mg/kg	0.227	0.220	90.6	29-145	3.06	31	L404119-01	WG423417
1,1,1-Trichloroethane	mg/kg	0.247	0.226	98.6	23-147	8.78	32	L404119-01	WG423417
1,1,2,2-Tetrachloroethane	mg/kg	0.221	0.209	88.2	18-150	5.30	33	L404119-01	WG423417
1,1,2-Trichloroethane	mg/kg	0.219	0.212	87.4	35-140	3.18	29	L404119-01	WG423417
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.233	0.213	93.2	10-145	9.22	35	L404119-01	WG423417
1,1-Dichloroethane	mg/kg	0.222	0.205	88.8	24-148	8.00	31	L404119-01	WG423417
1,1-Dichloroethene	mg/kg	0.224	0.206	89.4	10-149	8.35	34	L404119-01	WG423417
1,1-Dichloropropene	mg/kg	0.214	0.195	85.6	10-141	9.08	34	L404119-01	WG423417
1,2,3-Trichlorobenzene	mg/kg	0.192	0.172	76.6	10-129	11.0	43	L404119-01	WG423417
1,2,3-Trichloropropane	mg/kg	0.243	0.227	97.0	30-148	6.51	32	L404119-01	WG423417
1,2,4-Trichlorobenzene	mg/kg	0.180	0.163	71.9	10-119	10.1	44	L404119-01	WG423417
1,2,4-Trimethylbenzene	mg/kg	0.206	0.197	82.6	10-145	4.85	41	L404119-01	WG423417
1,2-Dibromo-3-Chloropropane	mg/kg	0.236	0.208	94.5	19-145	12.7	35	L404119-01	WG423417
1,2-Dibromoethane	mg/kg	0.222	0.214	88.8	24-145	3.72	31	L404119-01	WG423417
1,2-Dichlorobenzene	mg/kg	0.203	0.185	81.2	12-130	9.14	35	L404119-01	WG423417
1,2-Dichloroethane	mg/kg	0.239	0.216	95.5	21-155	10.2	29	L404119-01	WG423417
1,2-Dichloropropane	mg/kg	0.221	0.202	88.5	28-144	8.94	30	L404119-01	WG423417

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12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404176

June 01, 2009

Analyte	Units	Matrix Spike MSD	Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
1,3,5-Trimethylbenzene	mg/kg	0.209	0.201	83.8	10-135	3.97	39	L404119-01	WG423417
1,3-Dichlorobenzene	mg/kg	0.198	0.193	79.2	10-129	2.49	38	L404119-01	WG423417
1,3-Dichloropropane	mg/kg	0.210	0.205	84.1	31-137	2.29	29	L404119-01	WG423417
1,4-Dichlorobenzene	mg/kg	0.193	0.176	77.3	10-121	9.42	36	L404119-01	WG423417
2,2-Dichloropropane	mg/kg	0.227	0.209	90.8	18-144	8.38	32	L404119-01	WG423417
2-Butanone (MEK)	mg/kg	1.04	0.897	83.1	21-143	14.6	37	L404119-01	WG423417
2-Chloroethyl vinyl ether	mg/kg	0.942	1.16	75.4	0-176	20.8	50	L404119-01	WG423417
2-Chlorotoluene	mg/kg	0.208	0.201	83.2	10-132	3.38	37	L404119-01	WG423417
4-Chlorotoluene	mg/kg	0.200	0.193	80.1	10-129	3.61	38	L404119-01	WG423417
4-Methyl-2-pentanone (MIBK)	mg/kg	1.19	1.06	95.4	31-151	11.6	36	L404119-01	WG423417
Acetone	mg/kg	1.08	0.935	79.0	13-158	13.9	34	L404119-01	WG423417
Acrylonitrile	mg/kg	1.10	0.948	87.7	20-154	14.5	35	L404119-01	WG423417
Benzene	mg/kg	0.210	0.191	83.9	16-143	9.41	31	L404119-01	WG423417
Bromobenzene	mg/kg	0.205	0.199	82.0	14-135	3.16	39	L404119-01	WG423417
Bromodichloromethane	mg/kg	0.237	0.219	94.7	27-139	7.88	30	L404119-01	WG423417
Bromoform	mg/kg	0.237	0.222	94.8	21-144	6.46	34	L404119-01	WG423417
Bromomethane	mg/kg	0.245	0.228	98.0	0-180	7.27	41	L404119-01	WG423417
Carbon tetrachloride	mg/kg	0.231	0.210	92.1	12-149	9.30	34	L404119-01	WG423417
Chlorobenzene	mg/kg	0.208	0.202	83.1	17-134	2.94	34	L404119-01	WG423417
Chlorodibromomethane	mg/kg	0.229	0.222	91.7	28-147	3.35	32	L404119-01	WG423417
Chloroethane	mg/kg	0.238	0.220	95.3	0-172	7.87	38	L404119-01	WG423417
Chloroform	mg/kg	0.220	0.202	87.5	28-138	8.32	30	L404119-01	WG423417
Chloromethane	mg/kg	0.193	0.178	77.0	10-158	8.11	35	L404119-01	WG423417
cis-1,2-Dichloroethene	mg/kg	0.215	0.197	86.1	21-147	8.64	31	L404119-01	WG423417
cis-1,3-Dichloropropene	mg/kg	0.223	0.205	89.0	17-145	8.14	32	L404119-01	WG423417
Di-isopropyl ether	mg/kg	0.220	0.203	87.9	31-153	7.76	29	L404119-01	WG423417
Dibromomethane	mg/kg	0.223	0.207	89.3	24-147	7.57	30	L404119-01	WG423417
Dichlorodifluoromethane	mg/kg	0.215	0.195	86.1	0-192	9.72	38	L404119-01	WG423417
Ethylbenzene	mg/kg	0.207	0.202	83.0	12-137	2.67	36	L404119-01	WG423417
Hexachloro-1,3-Butadiene	mg/kg	0.162	0.152	65.0	10-123	6.53	50	L404119-01	WG423417
Isopropylbenzene	mg/kg	0.217	0.210	86.8	14-134	3.38	37	L404119-01	WG423417
Methyl tert-butyl ether	mg/kg	0.215	0.194	85.9	21-157	10.2	31	L404119-01	WG423417
Methylene Chloride	mg/kg	0.216	0.199	86.4	12-149	8.45	31	L404119-01	WG423417
n-Butylbenzene	mg/kg	0.186	0.171	74.4	10-130	8.66	48	L404119-01	WG423417
n-Propylbenzene	mg/kg	0.209	0.202	83.7	10-130	3.41	40	L404119-01	WG423417
Naphthalene	mg/kg	0.194	0.172	71.8	0-146	11.6	43	L404119-01	WG423417
p-Isopropyltoluene	mg/kg	0.206	0.196	82.4	10-131	4.76	43	L404119-01	WG423417
sec-Butylbenzene	mg/kg	0.206	0.198	82.4	10-134	4.15	43	L404119-01	WG423417
Styrene	mg/kg	0.212	0.206	84.9	10-140	3.08	35	L404119-01	WG423417
tert-Butylbenzene	mg/kg	0.217	0.208	86.9	11-137	4.28	39	L404119-01	WG423417
Tetrachloroethene	mg/kg	0.207	0.203	82.9	10-131	1.96	35	L404119-01	WG423417
Toluene	mg/kg	0.218	0.198	87.1	12-136	9.58	32	L404119-01	WG423417
trans-1,2-Dichloroethene	mg/kg	0.216	0.200	86.6	10-143	8.06	33	L404119-01	WG423417
trans-1,3-Dichloropropene	mg/kg	0.211	0.193	83.7	16-147	9.17	32	L404119-01	WG423417
Trichloroethene	mg/kg	0.232	0.215	92.7	10-155	7.50	33	L404119-01	WG423417
Trichlorofluoromethane	mg/kg	0.264	0.246	106.	10-154	6.91	32	L404119-01	WG423417
Vinyl chloride	mg/kg	0.214	0.192	85.4	10-159	10.6	36	L404119-01	WG423417
4-Bromofluorobenzene				96.59	59-140				WG423417
Dibromofluoromethane				94.20	63-139				WG423417
Toluene-d8				99.97	84-116				WG423417
1,1,1,2-Tetrachloroethane	mg/kg	0.205	0.202	82.0	29-145	1.32	31	L404274-01	WG423576
1,1,1-Trichloroethane	mg/kg	0.176	0.174	70.5	23-147	1.16	32	L404274-01	WG423576
1,1,2,2-Tetrachloroethane	mg/kg	0.215	0.188	86.0	18-150	13.3	33	L404274-01	WG423576
1,1,2-Trichloroethane	mg/kg	0.199	0.190	79.8	35-140	5.01	29	L404274-01	WG423576
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.166	0.164	66.3	10-145	1.23	35	L404274-01	WG423576
1,1-Dichloroethane	mg/kg	0.190	0.189	76.0	24-148	0.759	31	L404274-01	WG423576
1,1-Dichloroethene	mg/kg	0.157	0.157	62.6	10-149	0.330	34	L404274-01	WG423576

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ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404176

June 01, 2009

Analyte	Units	Matrix Spike MSD	Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1-Dichloropropene	mg/kg	0.168	0.168	67.4	10-141	0.087	34	L404274-01	WG423576
1,2,3-Trichlorobenzene	mg/kg	0.212	0.205	85.0	10-129	3.31	43	L404274-01	WG423576
1,2,3-Trichloropropane	mg/kg	0.217	0.191	86.8	30-148	12.7	32	L404274-01	WG423576
1,2,4-Trichlorobenzene	mg/kg	0.221	0.222	88.2	10-119	0.631	44	L404274-01	WG423576
1,2,4-Trimethylbenzene	mg/kg	0.194	0.192	77.6	10-145	1.04	41	L404274-01	WG423576
1,2-Dibromo-3-Chloropropane	mg/kg	0.221	0.195	88.5	19-145	12.8	35	L404274-01	WG423576
1,2-Dibromoethane	mg/kg	0.214	0.195	85.4	24-145	9.30	31	L404274-01	WG423576
1,2-Dichlorobenzene	mg/kg	0.199	0.203	79.4	12-130	2.04	35	L404274-01	WG423576
1,2-Dichloroethane	mg/kg	0.179	0.172	71.6	21-155	3.82	29	L404274-01	WG423576
1,2-Dichloropropane	mg/kg	0.201	0.201	80.5	28-144	0.167	30	L404274-01	WG423576
1,3,5-Trimethylbenzene	mg/kg	0.194	0.190	77.7	10-135	2.31	39	L404274-01	WG423576
1,3-Dichlorobenzene	mg/kg	0.213	0.208	85.2	10-129	2.55	38	L404274-01	WG423576
1,3-Dichloropropane	mg/kg	0.203	0.194	81.4	31-137	4.61	29	L404274-01	WG423576
1,4-Dichlorobenzene	mg/kg	0.193	0.195	77.1	10-121	1.00	36	L404274-01	WG423576
2,2-Dichloropropane	mg/kg	0.178	0.174	71.3	18-144	2.15	32	L404274-01	WG423576
2-Butanone (MEK)	mg/kg	1.03	0.858	82.2	21-143	18.0	37	L404274-01	WG423576
2-Chloroethyl vinyl ether	mg/kg	0.608	0.630	48.7	0-176	3.51	50	L404274-01	WG423576
2-Chlorotoluene	mg/kg	0.194	0.192	77.6	10-132	0.902	37	L404274-01	WG423576
4-Chlorotoluene	mg/kg	0.188	0.188	75.3	10-129	0.118	38	L404274-01	WG423576
4-Methyl-2-pentanone (MIBK)	mg/kg	1.11	0.922	89.2	31-151	18.9	36	L404274-01	WG423576
Acetone	mg/kg	0.992	0.820	73.7	13-158	19.1	34	L404274-01	WG423576
Acrylonitrile	mg/kg	1.08	0.923	86.5	20-154	15.8	35	L404274-01	WG423576
Benzene	mg/kg	0.179	0.175	71.6	16-143	2.08	31	L404274-01	WG423576
Bromobenzene	mg/kg	0.185	0.182	74.1	14-135	1.48	39	L404274-01	WG423576
Bromodichloromethane	mg/kg	0.177	0.171	70.7	27-139	3.56	30	L404274-01	WG423576
Bromoform	mg/kg	0.219	0.197	87.5	21-144	10.3	34	L404274-01	WG423576
Bromomethane	mg/kg	0.143	0.140	57.3	0-180	2.29	41	L404274-01	WG423576
Carbon tetrachloride	mg/kg	0.176	0.175	70.3	12-149	0.455	34	L404274-01	WG423576
Chlorobenzene	mg/kg	0.192	0.192	76.6	17-134	0.014	34	L404274-01	WG423576
Chlorodibromomethane	mg/kg	0.194	0.182	77.4	28-147	6.03	32	L404274-01	WG423576
Chloroethane	mg/kg	0.154	0.156	61.7	0-172	1.28	38	L404274-01	WG423576
Chloroform	mg/kg	0.198	0.193	79.3	28-138	2.89	30	L404274-01	WG423576
Chloromethane	mg/kg	0.148	0.153	59.3	10-158	2.99	35	L404274-01	WG423576
cis-1,2-Dichloroethene	mg/kg	0.186	0.184	74.4	21-147	1.04	31	L404274-01	WG423576
cis-1,3-Dichloropropene	mg/kg	0.201	0.193	80.3	17-145	3.84	32	L404274-01	WG423576
Di-isopropyl ether	mg/kg	0.195	0.189	77.8	31-153	3.09	29	L404274-01	WG423576
Dibromomethane	mg/kg	0.193	0.177	77.0	24-147	8.37	30	L404274-01	WG423576
Dichlorodifluoromethane	mg/kg	0.131	0.131	52.2	0-192	0.193	38	L404274-01	WG423576
Ethylbenzene	mg/kg	0.191	0.190	76.5	12-137	0.779	36	L404274-01	WG423576
Hexachloro-1,3-Butadiene	mg/kg	0.211	0.207	84.3	10-123	1.79	50	L404274-01	WG423576
Isopropylbenzene	mg/kg	0.192	0.193	76.8	14-134	0.530	37	L404274-01	WG423576
Methyl tert-butyl ether	mg/kg	0.186	0.172	74.5	21-157	7.99	31	L404274-01	WG423576
Methylene Chloride	mg/kg	0.167	0.166	66.7	12-149	0.602	31	L404274-01	WG423576
n-Butylbenzene	mg/kg	0.178	0.186	71.4	10-130	4.06	48	L404274-01	WG423576
n-Propylbenzene	mg/kg	0.188	0.188	75.2	10-130	0.200	40	L404274-01	WG423576
Naphthalene	mg/kg	0.229	0.205	91.7	0-146	11.2	43	L404274-01	WG423576
p-Isopropyltoluene	mg/kg	0.190	0.190	76.1	10-131	0.262	43	L404274-01	WG423576
sec-Butylbenzene	mg/kg	0.197	0.196	78.7	10-134	0.490	43	L404274-01	WG423576
Styrene	mg/kg	0.204	0.200	81.5	10-140	2.09	35	L404274-01	WG423576
tert-Butylbenzene	mg/kg	0.192	0.194	76.7	11-137	1.30	39	L404274-01	WG423576
Tetrachloroethene	mg/kg	0.175	0.175	69.9	10-131	0.177	35	L404274-01	WG423576
Toluene	mg/kg	0.179	0.180	71.7	12-136	0.410	32	L404274-01	WG423576
trans-1,2-Dichloroethene	mg/kg	0.163	0.163	65.3	10-143	0.179	33	L404274-01	WG423576
trans-1,3-Dichloropropene	mg/kg	0.197	0.187	78.7	16-147	5.33	32	L404274-01	WG423576
Trichloroethene	mg/kg	0.183	0.186	73.3	10-155	1.53	33	L404274-01	WG423576
Trichlorofluoromethane	mg/kg	0.146	0.145	58.6	10-154	1.16	32	L404274-01	WG423576
Vinyl chloride	mg/kg	0.158	0.158	63.3	10-159	0.116	36	L404274-01	WG423576
4-Bromofluorobenzene				96.53	59-140				WG423576
Dibromofluoromethane				91.24	63-139				WG423576

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Mt. Juliet, TN 37122
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1-800-767-5859
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Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404176

June 01, 2009

Analyte	Units	Matrix Spike MSD	Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
Toluene-d8				102.6	84-116				
1,2,4-Trichlorobenzene	ppm	0.0044	0.0054	44.8	18-105	19.8	50	L404219-04	WG423641
2,4,6-Trichlorophenol	ppm	0.0070	0.0072	70.3	10-137	3.53	42	L404219-04	WG423641
2,4-Dichlorophenol	ppm	0.0065	0.0070	65.5	10-133	7.87	50	L404219-04	WG423641
2,4-Dimethylphenol	ppm	0.0064	0.0078	64.6	10-142	19.0	36	L404219-04	WG423641
2,4-Dinitrophenol	ppm	0.0063	0.0060	63.8	10-150	5.95	50	L404219-04	WG423641
2,4-Dinitrotoluene	ppm	0.0078	0.0083	78.3	32-137	6.48	36	L404219-04	WG423641
2,6-Dinitrotoluene	ppm	0.0079	0.0078	79.7	35-123	1.26	37	L404219-04	WG423641
2-Chloronaphthalene	ppm	0.0067	0.0071	67.2	33-109	6.69	39	L404219-04	WG423641
2-Chlorophenol	ppm	0.0052	0.0059	52.5	10-155	11.8	50	L404219-04	WG423641
2-Nitrophenol	ppm	0.0066	0.0074	66.5	12-121	11.6	48	L404219-04	WG423641
3,3-Dichlorobenzidine	ppm	0.0008	0.0007	8.165*	10-135	13.8	40	L404219-04	WG423641
4,6-Dinitro-2-methylphenol	ppm	0.0070	0.0074	70.1	0-138	5.99	50	L404219-04	WG423641
4-Bromophenyl-phenylether	ppm	0.0057	0.0059	57.3	35-102	2.78	23	L404219-04	WG423641
4-Chloro-3-methylphenol	ppm	0.0058	0.0062	58.0	10-136	6.89	29	L404219-04	WG423641
4-Chlorophenyl-phenylether	ppm	0.0071	0.0073	71.3	39-116	3.28	32	L404219-04	WG423641
4-Nitrophenol	ppm	0.0025	0.0023	25.0	13-59	7.90	50	L404219-04	WG423641
Acenaphthene	ppm	0.0072	0.0075	72.8	39-112	3.03	37	L404219-04	WG423641
Acenaphthylene	ppm	0.0075	0.0080	75.5	37-114	6.84	35	L404219-04	WG423641
Anthracene	ppm	0.0080	0.0080	80.2	44-136	0.640	24	L404219-04	WG423641
Benzidine	ppm	0.0000	0.0001	0.833	0-25	80.0*	50	L404219-04	WG423641
Benzo(a)anthracene	ppm	0.0073	0.0075	73.2	43-117	3.62	25	L404219-04	WG423641
Benzo(a)pyrene	ppm	0.0070	0.0076	70.7	33-137	8.06	34	L404219-04	WG423641
Benzo(b)fluoranthene	ppm	0.0068	0.0081	68.2	35-128	17.8	50	L404219-04	WG423641
Benzo(g,h,i)perylene	ppm	0.0059	0.0059	59.3	10-139	1.09	50	L404219-04	WG423641
Benzo(k)fluoranthene	ppm	0.0073	0.0066	73.1	36-119	9.36	40	L404219-04	WG423641
Benzylbutyl phthalate	ppm	0.0032	0.0034	32.485*	47-121	5.54	28	L404219-04	WG423641
Bis(2-chlorethoxy)methane	ppm	0.0057	0.0062	57.0	21-135	8.62	39	L404219-04	WG423641
Bis(2-chloroethyl)ether	ppm	0.0040	0.0048	40.8	10-134	17.7	50	L404219-04	WG423641
Bis(2-chloroisopropyl)ether	ppm	0.0043	0.0049	43.4	14-124	13.8	40	L404219-04	WG423641
Bis(2-ethylhexyl)phthalate	ppm	0.0065	0.0067	65.2	10-115	3.65	33	L404219-04	WG423641
Chrysene	ppm	0.0074	0.0077	74.2	41-117	4.32	24	L404219-04	WG423641
Di-n-butyl phthalate	ppm	0.0059	0.0060	59.5	46-121	2.34	27	L404219-04	WG423641
Di-n-octyl phthalate	ppm	0.0064	0.0066	64.2	22-109	3.93	31	L404219-04	WG423641
Dibenz(a,h)anthracene	ppm	0.0058	0.0059	58.0	10-145	2.00	50	L404219-04	WG423641
Diethyl phthalate	ppm	0.0049	0.0048	49.2	23-132	1.13	35	L404219-04	WG423641
Dimethyl phthalate	ppm	0.0017	0.0018	17.653*	42-107	6.20	27	L404219-04	WG423641
Fluoranthene	ppm	0.0079	0.0081	79.9	36-130	1.41	27	L404219-04	WG423641
Fluorene	ppm	0.0076	0.0083	76.5	37-120	8.62	30	L404219-04	WG423641
Hexachloro-1,3-butadiene	ppm	0.0045	0.0054	45.2	16-118	18.5	50	L404219-04	WG423641
Hexachlorobenzene	ppm	0.0066	0.0070	66.6	41-114	5.71	28	L404219-04	WG423641
Hexachlorocyclopentadiene	ppm	0.0039	0.0045	39.1	0-132	14.9	50	L404219-04	WG423641
Hexachloroethane	ppm	0.0028	0.0037	28.5	10-125	25.9	50	L404219-04	WG423641
Indeno(1,2,3-cd)pyrene	ppm	0.0059	0.0060	59.8	10-138	0.697	50	L404219-04	WG423641
Isophorone	ppm	0.0056	0.0061	56.0	32-131	8.68	38	L404219-04	WG423641
n-Nitrosodi-n-propylamine	ppm	0.0046	0.0053	46.7	20-145	13.3	43	L404219-04	WG423641
n-Nitrosodimethylamine	ppm	0.0020	0.0022	20.7	0-75	6.72	50	L404219-04	WG423641
n-Nitrosodiphenylamine	ppm	0.0065	0.0069	65.5	10-171	5.59	34	L404219-04	WG423641
Naphthalene	ppm	0.0051	0.0060	51.2	14-114	16.5	50	L404219-04	WG423641
Nitrobenzene	ppm	0.0043	0.0051	43.4	14-122	16.0	46	L404219-04	WG423641
Pentachlorophenol	ppm	0.0080	0.0083	80.4	0-137	3.34	50	L404219-04	WG423641
Phenanthrene	ppm	0.0071	0.0071	71.3	38-121	0.342	26	L404219-04	WG423641
Phenol	ppm	0.0022	0.0025	22.9	10-68	10.0	32	L404219-04	WG423641
Pyrene	ppm	0.0081	0.0080	81.4	27-136	1.38	33	L404219-04	WG423641
2,4,6-Tribromophenol				75.81	10-148				WG423641
2-Fluorobiphenyl				65.82	26-122				WG423641
2-Fluorophenol				30.94	10-87				WG423641
Nitrobenzene-d5				44.95	12-120				WG423641
Phenol-d5				19.33	10-67				WG423641

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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12065 Lebanon Rd.
Mt. Juliet, TN 37122
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Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404176

June 01, 2009

Analyte	Units	Matrix Spike MSD	Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
p-Terphenyl-d14				85.10	34-149				
Arsenic	mg/kg	42.4	42.7	79.4	75-125	0.705	20	L404107-18	WG423772
Barium	mg/kg	160.	147.	169*	75-125	8.47	20	L404107-18	WG423772
Cadmium	mg/kg	40.9	42.4	81.4	75-125	3.60	20	L404107-18	WG423772
Chromium	mg/kg	59.2	59.1	86.0	75-125	0.169	20	L404107-18	WG423772
Lead	mg/kg	46.7	46.8	82.0	75-125	0.214	20	L404107-18	WG423772
Selenium	mg/kg	40.5	39.6	77.6	75-125	2.25	20	L404107-18	WG423772
Silver	mg/kg	43.3	44.4	85.3	75-125	2.51	20	L404107-18	WG423772
1-Methylnaphthalene	ppm	0.0668	0.0742	112.	19-131	10.5	30	L403980-04	WG423440
2-Chloronaphthalene	ppm	0.0278	0.0291	84.2	38-117	4.57	26	L403980-04	WG423440
2-Methylnaphthalene	ppm	0.0507	0.0618	153.669*	18-125	19.7	29	L403980-04	WG423440
Acenaphthene	ppm	0.0259	0.0327	78.5	31-120	23.4	30	L403980-04	WG423440
Acenaphthylene	ppm	0.0311	0.0353	94.3	34-116	12.7	29	L403980-04	WG423440
Anthracene	ppm	0.0265	0.0303	80.2	32-131	13.5	26	L403980-04	WG423440
Benzo(a)anthracene	ppm	0.0292	0.0300	88.6	32-131	2.48	31	L403980-04	WG423440
Benzo(a)pyrene	ppm	0.0300	0.0340	91.0	28-130	12.3	28	L403980-04	WG423440
Benzo(b)fluoranthene	ppm	0.0376	0.0414	114.	37-130	9.42	41	L403980-04	WG423440
Benzo(g,h,i)perylene	ppm	0.0147	0.0191	44.4	10-134	26.5*	26	L403980-04	WG423440
Benzo(k)fluoranthene	ppm	0.0339	0.0403	103.	31-129	17.2	42	L403980-04	WG423440
Chrysene	ppm	0.0314	0.0316	95.2	25-137	0.546	22	L403980-04	WG423440
Dibenz(a,h)anthracene	ppm	0.0153	0.0167	46.4	20-134	8.86	25	L403980-04	WG423440
Fluoranthene	ppm	0.0411	0.0399	124.	27-138	2.88	35	L403980-04	WG423440
Fluorene	ppm	0.0314	0.0357	95.1	26-136	12.8	30	L403980-04	WG423440
Indeno(1,2,3-cd)pyrene	ppm	0.0142	0.0169	43.1	16-135	17.2	26	L403980-04	WG423440
Naphthalene	ppm	0.0342	0.0393	104.	22-121	13.7	30	L403980-04	WG423440
Phenanthrene	ppm	0.0334	0.0392	101.	27-133	15.8	36	L403980-04	WG423440
Pyrene	ppm	0.0407	0.0381	123.	22-133	6.68	33	L403980-04	WG423440
2-Fluorobiphenyl				68.20	30-120				WG423440
Nitrobenzene-d5				54.60	18-119				WG423440
p-Terphenyl-d14				91.50	23-143				WG423440
1-Methylnaphthalene	ppm	0.0236	0.0226	71.5	19-131	4.30	30	L404176-05	WG423537
2-Chloronaphthalene	ppm	0.0246	0.0239	74.6	38-117	2.75	26	L404176-05	WG423537
2-Methylnaphthalene	ppm	0.0257	0.0244	78.0	18-125	5.35	29	L404176-05	WG423537
Acenaphthene	ppm	0.0256	0.0243	77.5	31-120	5.00	30	L404176-05	WG423537
Acenaphthylene	ppm	0.0262	0.0244	79.2	34-116	7.07	29	L404176-05	WG423537
Anthracene	ppm	0.0261	0.0245	79.2	32-131	6.40	26	L404176-05	WG423537
Benzo(a)anthracene	ppm	0.0263	0.0248	79.8	32-131	6.18	31	L404176-05	WG423537
Benzo(a)pyrene	ppm	0.0267	0.0249	80.8	28-130	6.77	28	L404176-05	WG423537
Benzo(b)fluoranthene	ppm	0.0283	0.0252	85.8	37-130	11.6	41	L404176-05	WG423537
Benzo(g,h,i)perylene	ppm	0.0313	0.0294	94.8	10-134	6.35	26	L404176-05	WG423537
Benzo(k)fluoranthene	ppm	0.0269	0.0272	81.6	31-129	0.948	42	L404176-05	WG423537
Chrysene	ppm	0.0234	0.0218	70.9	25-137	6.80	22	L404176-05	WG423537
Dibenz(a,h)anthracene	ppm	0.0292	0.0280	88.6	20-134	4.50	25	L404176-05	WG423537
Fluoranthene	ppm	0.0288	0.0255	87.3	27-138	12.1	35	L404176-05	WG423537
Fluorene	ppm	0.0271	0.0261	82.2	26-136	3.71	30	L404176-05	WG423537
Indeno(1,2,3-cd)pyrene	ppm	0.0302	0.0283	91.4	16-135	6.43	26	L404176-05	WG423537
Naphthalene	ppm	0.0246	0.0228	74.6	22-121	7.63	30	L404176-05	WG423537
Phenanthrene	ppm	0.0278	0.0249	84.4	27-133	11.3	36	L404176-05	WG423537
Pyrene	ppm	0.0257	0.0239	77.9	22-133	7.37	33	L404176-05	WG423537
2-Fluorobiphenyl				65.82	30-120				WG423537
Nitrobenzene-d5				72.95	18-119				WG423537
p-Terphenyl-d14				71.45	23-143				WG423537
Arsenic	mg/l	1.08	1.09	94.1	75-125	0.922	20	L404219-04	WG423976

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SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Stantec Consulting - Tualatin, OR
Amy Zach
7730 SW Mohawk Street

Tualatin, OR 97062

Quality Assurance Report
Level II

L404176

June 01, 2009

Analyte	Units	Matrix Spike MSD	Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Barium	mg/l	1.40	1.40	94.7	75-125	0.00	20	L404219-04	WG423976
Cadmium	mg/l	1.08	1.08	95.6	75-125	0.00	20	L404219-04	WG423976
Chromium	mg/l	1.07	1.07	94.7	75-125	0.00	20	L404219-04	WG423976
Lead	mg/l	1.07	1.10	93.9	75-125	2.76	20	L404219-04	WG423976
Selenium	mg/l	0.984	0.982	87.1	75-125	0.203	20	L404219-04	WG423976
Silver	mg/l	0.0488	0.0661	4.319*	75-125	30.1*	20	L404219-04	WG423976

Batch number /Run number / Sample number cross reference

WG423232: R754168: L404176-02
WG423304: R754546: L404176-02 06
WG423237: R754748: L404176-01 03 04 05
WG423417: R754868: L404176-03 04 05
WG423440: R755726: L404176-01 03
WG423576: R757627: L404176-01
WG423641: R760707: L404176-02
WG423772: R762286: L404176-01 03 04 05
WG423537: R762466: L404176-04 05
WG423803: R762667: L404176-01 03 04 05
WG423976: R765126: L404176-02

* * Calculations are performed prior to rounding of reported values .
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L404176

June 01, 2009

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Chain of Custody

Page 3 of 8 — 1 of 1

Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin,OR 97062

Alternate billing information:

Report to: Amy Zach

Email: Amy.Zach@stantec.com

Project Description: US Marine - Brunswick 17825 59th Ave NE,

City/State Collected: Arlington, WA

Phone: (503) 691-2030
FAX: (503) 692-7074

Client Project #: 190402025.200.0001

Lab Project #: SECORTOR-USMARINE

Collected by (print): Amy Zach

Site/Facility ID#: ARLINGTON, WA

P.O.#:

Collected by (signature): Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day.....100%
___ Two Day.....50%
___ Three Day.....25%

Date Results Needed: 06-01-09

Email? __No X Yes
FAX? __No __Yes

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859
E118

Acctnum: SECORTOR (lab use only)
Template/Prelogin: T58152/ P282561
Cooler #: 5
Shipped Via: FedEX 2nd Day

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	NWTPHDX, TS 4ozClr-NoPres	NWTPHGX 40ml/NaHSO4/Syr/MeOH	RCRA8 Metals 2ozClr-NoPres	RCRA8 Metals 500mlHDPE-HNO3	SV8270PAHSIM 1L-Amb NoPres	SV8270PAHSIM 4ozAmb-NoPres	TS 4ozClr-NoPres	V8260 40ml/NaHSO4/Syr/MeOH VOCs for soil&GW	Remarks/Contaminant	Sample # (lab only)
B-7-15	Grab	SS	15	05-21-09	1546	8	X	X	X		X	X	X	X		L404176-01
B-7		~~SS~~ GW	--	↓	1610	5	X	X		X	X		X	X		-02
RP-1		SS	--	05-22-09	0735	8	X	X	X			X	X	X		-03
RP-2		SS	--		0805	8	X	X	X			X	X	X		-04
RP-3	↓	SS	--	↓	0845	8	X	X	X			X	X	X		-05
TB-4	--	SS	--	--	--	8	X	X						X		-06
		SS				5	X	X								
		SS				5	X	X								
		GW				5				X	X					

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: Soil - ESVOCs, VOCs, metals
GW - SVOCs, VOCs, metals

pH _____ Temp _____

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	05-22-09	1030	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ____
Temp: 3.4°C Bottles Received: 33
Date: 5-23-09 Time: 0900

Condition: OK (lab use only)
COC Seal Intact: ✓ Y N NA
pH Checked: 2 NCF:

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SCIENCE CORP.

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Est. 1970

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street

Tualatin, OR 97062

Report Summary

Wednesday June 24, 2009

Report Number: L408562
Samples Received: 05/22/09
Client Project: 190402025.200.0001

Description: US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Jarred Willis, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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12065 Lebanon Rd.
Mt. Juliet, TN 37122
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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 24,2009

ESC Sample # : L408562-01

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-1-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/20/09 09:56

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.1	mg/kg	3060A/7196A	06/19/09	1
Chromium,Trivalent	30.	0.50	mg/kg	Calc.	06/02/09	1
ORP	160		mV	2580	06/23/09	1
pH	7.2		su	9045D	06/20/09	1
Total Solids	94.0		%	2540G	05/28/09	1
Chromium	32.	0.53	mg/kg	6010B	06/02/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 06/24/09 13:11 Revised: 06/24/09 20:04
L408562-01 (PH) - 7.2@24.2c
L408562-01 (ORP) - 160@18.0C

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REPORT OF ANALYSIS

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7730 SW Mohawk Street
Tualatin, OR 97062

June 24,2009

ESC Sample # : L408562-02

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-2-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/20/09 12:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.3	mg/kg	3060A/7196A	06/19/09	1
Chromium,Trivalent	25.	0.50	mg/kg	Calc.	06/02/09	1
ORP	160		mV	2580	06/23/09	1
pH	6.8		su	9045D	06/20/09	1
Total Solids	85.2		%	2540G	05/28/09	1
Chromium	29.	0.59	mg/kg	6010B	06/02/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 06/24/09 13:11 Revised: 06/24/09 20:04
L408562-02 (PH) - 6.8@24.3c
L408562-02 (ORP) - 155@18.6C

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12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 24,2009

ESC Sample # : L408562-03

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-3-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 08:34

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.2	mg/kg	3060A/7196A	06/19/09	1
Chromium,Trivalent	55.	0.50	mg/kg	Calc.	06/02/09	1
ORP	170		mV	2580	06/23/09	1
pH	6.7		su	9045D	06/20/09	1
Total Solids	90.5		%	2540G	05/28/09	1
Chromium	62.	0.55	mg/kg	6010B	06/02/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 06/24/09 13:11 Revised: 06/24/09 20:04
L408562-03 (PH) - 6.7@24.0c
L408562-03 (ORP) - 171@19.3C

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(615) 758-5858
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Fax (615) 758-5859

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 24,2009

ESC Sample # : L408562-04

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-4-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 10:09

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.1	mg/kg	3060A/7196A	06/19/09	1
Chromium,Trivalent	36.	0.50	mg/kg	Calc.	06/02/09	1
ORP	170		mV	2580	06/23/09	1
pH	6.7		su	9045D	06/20/09	1
Total Solids	95.3		%	2540G	05/28/09	1
Chromium	38.	0.52	mg/kg	6010B	06/02/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 06/24/09 13:11 Revised: 06/24/09 20:04
L408562-04 (PH) - 6.7@23.9c
L408562-04 (ORP) - 169@20.5C

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Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 24,2009

ESC Sample # : L408562-05

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-5-15FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 11:27

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.1	mg/kg	3060A/7196A	06/19/09	1
Chromium,Trivalent	140	0.50	mg/kg	Calc.	06/02/09	1
ORP	170		mV	2580	06/23/09	1
pH	6.5		su	9045D	06/20/09	1
Total Solids	95.9		%	2540G	05/28/09	1
Chromium	140	0.52	mg/kg	6010B	06/02/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 06/24/09 13:11 Revised: 06/24/09 20:04
L408562-05 (PH) - 6.5@24.0c
L408562-05 (ORP) - 171@20.3C

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Mt. Juliet, TN 37122
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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 24,2009

ESC Sample # : L408562-06

Date Received : May 22, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : B-6-5FT

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/21/09 12:52

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.2	mg/kg	3060A/7196A	06/19/09	1
Chromium,Trivalent	31.	0.50	mg/kg	Calc.	06/02/09	1
ORP	190		mV	2580	06/23/09	1
pH	5.6		su	9045D	06/20/09	1
Total Solids	92.8		%	2540G	05/28/09	1
Chromium	33.	0.54	mg/kg	6010B	06/02/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 06/24/09 13:11 Revised: 06/24/09 20:04
L408562-06 (ORP) - 194@19.8C
L408562-06 (PH) - 5.6@23.4c

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Mt. Juliet, TN 37122
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Fax (615) 758-5859

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 24,2009

ESC Sample # : L408562-07

Date Received : May 23, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : RP-1

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/22/09 07:35

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	40.	mg/kg	3060A/7196A	06/19/09	10
Chromium,Trivalent	40.	0.50	mg/kg	Calc.	05/29/09	1
ORP	220		mV	2580	06/23/09	1
pH	6.2		su	9045D	06/20/09	1
Total Solids	50.3		%	2540G	05/30/09	1
Chromium	80.	0.99	mg/kg	6010B	05/29/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 06/24/09 13:11 Revised: 06/24/09 20:04
L408562-07 (PH) - 6.2@23.6c
L408562-07 (ORP) - 218@20.3C

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Mt. Juliet, TN 37122
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1-800-767-5859
Fax (615) 758-5859

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 24,2009

ESC Sample # : L408562-08

Date Received : May 23, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : RP-2

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/22/09 08:05

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.8	mg/kg	3060A/7196A	06/19/09	1
Chromium,Trivalent	33.	0.50	mg/kg	Calc.	05/29/09	1
ORP	210		mV	2580	06/23/09	1
pH	6.2		su	9045D	06/20/09	1
Total Solids	71.6		%	2540G	05/30/09	1
Chromium	46.	0.70	mg/kg	6010B	05/29/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 06/24/09 13:11 Revised: 06/24/09 20:04
L408562-08 (ORP) - 213@19.2C
L408562-08 (PH) - 6.2@23.5c

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12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

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REPORT OF ANALYSIS

Amy Zach
Stantec Consulting - Tualatin, OR
7730 SW Mohawk Street
Tualatin, OR 97062

June 24,2009

ESC Sample # : L408562-09

Date Received : May 23, 2009
Description : US Marine - Brunswick 17825 59th Ave NE, Arlington, WA

Site ID : ARLINGTON, WA

Sample ID : RP-3

Project # : 190402025.200.0001

Collected By : Amy Zach
Collection Date : 05/22/09 08:45

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.2	mg/kg	3060A/7196A	06/19/09	1
Chromium,Trivalent	38.	0.50	mg/kg	Calc.	05/29/09	1
ORP	220		mV	2580	06/23/09	1
pH	6.4		su	9045D	06/20/09	1
Total Solids	90.0		%	2540G	05/30/09	1
Chromium	42.	0.56	mg/kg	6010B	05/29/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 06/24/09 13:11 Revised: 06/24/09 20:04
L408562-09 (PH) - 6.4@23.6c
L408562-09 (ORP) - 224@19.0C

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L408562-01	WG427583	SAMP	pH	R788394	T8
L408562-02	WG427583	SAMP	pH	R788394	T8
L408562-03	WG427583	SAMP	pH	R788394	T8
L408562-04	WG427583	SAMP	pH	R788394	T8
L408562-05	WG427583	SAMP	pH	R788394	T8
L408562-06	WG427583	SAMP	pH	R788394	T8
L408562-07	WG427583	SAMP	pH	R788394	T8
	WG426778	SAMP	Chromium,Hexavalent	R787746	O
L408562-08	WG427583	SAMP	pH	R788394	T8
L408562-09	WG427583	SAMP	pH	R788394	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
06/24/09 at 20:04:05

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L408562-01 Account: SECORTOR Received: 05/22/09 09:00 Due Date: 06/25/09 00:00 RPT Date: 06/24/09 13:11
Relogged from L404086-01
Sample: L408562-02 Account: SECORTOR Received: 05/22/09 09:00 Due Date: 06/25/09 00:00 RPT Date: 06/24/09 13:11
Relogged from L404086-02
Sample: L408562-03 Account: SECORTOR Received: 05/22/09 09:00 Due Date: 06/25/09 00:00 RPT Date: 06/24/09 13:11
Relogged from L404086-03
Sample: L408562-04 Account: SECORTOR Received: 05/22/09 09:00 Due Date: 06/25/09 00:00 RPT Date: 06/24/09 13:11
Relogged from L404086-04
Sample: L408562-05 Account: SECORTOR Received: 05/22/09 09:00 Due Date: 06/25/09 00:00 RPT Date: 06/24/09 13:11
Relogged from L404086-05
Sample: L408562-06 Account: SECORTOR Received: 05/22/09 09:00 Due Date: 06/25/09 00:00 RPT Date: 06/24/09 13:11
Relogged from L404086-06
Sample: L408562-07 Account: SECORTOR Received: 05/23/09 09:00 Due Date: 06/25/09 00:00 RPT Date: 06/24/09 13:11
Relogged from L404176-03
Sample: L408562-08 Account: SECORTOR Received: 05/23/09 09:00 Due Date: 06/25/09 00:00 RPT Date: 06/24/09 13:11
Relogged from L404176-04
Sample: L408562-09 Account: SECORTOR Received: 05/23/09 09:00 Due Date: 06/25/09 00:00 RPT Date: 06/24/09 13:11
Relogged from L404176-05

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12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

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Quality Assurance Report
Level II

L408562

June 24, 2009

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Total Solids	< .1	%			WG423615	05/28/09 10:43
Total Solids	< .1	%			WG423616	05/28/09 10:32
Chromium	< .5	mg/kg			WG423772	05/29/09 10:19
Total Solids	< .1	%			WG423803	05/30/09 10:55
Chromium	< .5	mg/kg			WG423648	06/02/09 14:55
Chromium,Hexavalent	< 2	mg/kg			WG426778	06/19/09 18:42
pH	6.80	su			WG427583	06/20/09 15:15

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	93.8	94.0	0.249	5	L404086-01	WG423615
Total Solids	%	65.5	64.3	1.84	5	L404089-02	WG423616
Chromium	mg/kg	16.8	16.2	3.64	20	L404107-18	WG423772
Total Solids	%	82.1	83.3	1.40	5	L404192-01	WG423803
Chromium	mg/kg	22.2	30.0	29.9*	20	L404107-01	WG423648
Chromium,Hexavalent	mg/kg	0.00	39.1	NA	20	L407744-01	WG426778
pH	su	7.20	7.20	0.00	20	L408562-01	WG427583
pH	su	6.10	6.10	0.00	20	L408455-06	WG427583
ORP	mV	193.	190.	1.57	20	L408455-05	WG427804
ORP	mV	183.	160.	13.4	20	L408716-02	WG427804

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Total Solids	%	50	50.0	100.	85-115	WG423615
Total Solids	%	50	50.0	100.	85-115	WG423616
Chromium	mg/kg	168	152.	90.5	80.4-120.2	WG423772

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L408562

June 24, 2009

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Total Solids	%	50	50.0	100.	85-115	WG423803
Chromium	mg/kg	168	169.	101.	80.4-120.2	WG423648
Chromium,Hexavalent	mg/kg	102	83.5	81.9	50-143	WG426778
pH	su	9.04	8.90	98.5	97.4-102.6	WG427583
ORP	mV	229	220.	96.1	95.6-104.37	WG427804

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Chromium,Hexavalent	mg/kg	81.9	83.5	80.0	50-143	1.93	20	WG426778
pH	su	8.90	8.90	98.0	97.4-102.6	0.00	20	WG427583
ORP	mV	220.	220.	96.0	95.6-104.37	0.00	20	WG427804

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Chromium	mg/kg	59.1	16.2	50	85.8	75-125	L404107-18	WG423772
Chromium	mg/kg	90.7	30.0	10	121.	75-125	L404107-01	WG423648
Chromium,Hexavalent	mg/kg	16.7	0.00	20	83.5	80-120	L408562-04	WG426778

Matrix Spike Duplicate

Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Chromium	mg/kg	59.2	59.1	86.0	75-125	0.169	20	L404107-18	WG423772
Chromium	mg/kg	92.3	90.7	125.	75-125	1.75	20	L404107-01	WG423648
Chromium,Hexavalent	mg/kg	16.7	16.7	83.5	80-120	0.00	20	L408562-04	WG426778

Batch number /Run number / Sample number cross reference

WG423615: R757886: L408562-01 02 03 04
WG423616: R757887: L408562-05 06
WG423772: R762286 R790131: L408562-07 08 09 07
WG423803: R762667: L408562-07 08 09
WG423648: R767466 R790127: L408562-01 02 03 04 05 06 01
WG426778: R787746: L408562-01 02 03 04 05 06 07 08 09
WG427583: R788394: L408562-01 02 03 04 05 06 07 08 09
WG427804: R790446: L408562-01 02 03 04 05 06 07 08 09

* * Calculations are performed prior to rounding of reported values .
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Tualatin, OR 97062

Quality Assurance Report
Level II

L408562

June 24, 2009

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.