MEMORANDUM

Project No.: 080190-004-04

July 14, 2009

To: Dave Shaw, Successor to Walker Chevrolet
Michael Bond, Gardner Bond Trabolsi, PLLC

cc: Al Notary, Brown & Caldwell
John Mullan, Zurich North American Insurance Co.

From: **Doug Hillman, LHG**
Principal Hydrogeologist

Joe Morrice, LHG
Senior Hydrogeologist

Re: **Site Conditions Summary**
Former Walker Chevrolet Property in Tacoma, Washington

The purpose of this memorandum is to provide you and the Washington State Department of Ecology (Ecology) with a summary of current environmental conditions at the former Walker Chevrolet property (Property). We recommend submitting this memorandum to Ecology with enrollment materials for the Voluntary Cleanup Program (VCP). Once an Ecology site manager is assigned we should schedule a meeting with Ecology to discuss the findings of this memorandum and discuss potential follow-up actions prior to requesting an Ecology-issued opinion letter. Work conducted on this project is consistent with requirements of the Model Toxics Control Act (MTCA), Chapter 173-340 of the Washington Administrative Code (WAC) and is intended to support an Ecology-equivalent cleanup action at the site.

The Property is located at the intersection of Division Avenue and North First Street in Tacoma, Washington (Figure 1). For the purposes of this memorandum the "Property" refers to two tax parcels (Pierce County Assessor Parcel Numbers 2030120030 and 2030120040) with the associated street addresses 608 and 610 North First Street and 633 Division Street. Property boundaries are shown on Figure 2. The "Site", as used in this memorandum, includes the Property and any off-property soil or groundwater confirmed or suspected of being impacted by contaminant releases at the Property.

Site Description

The Property contains two buildings (Figure 2), and all remaining surfaces are paved with asphalt or concrete. The larger building occupies approximately the southern two thirds of the Property and currently contains an auto body shop and a Thriftway grocery store. A smaller building located at the north corner of the Property contains office space for the grocery and Morrell's Dry Cleaning (Morrell's). Several retail businesses are located along Tacoma Avenue North and are separated from the Property by a narrow pedestrian walkway.

The larger building was constructed in 1925 and used as an auto dealership. Eight underground storage tanks (USTs) associated with this building were decommissioned in 1994. The building

occupied by Morrell's has reportedly contained a dry cleaning operation since prior to 1930 (Bison Environmental, 1994a).

Geologic and Hydrogeologic Conditions

This summary of area-wide and Site geologic and hydrogeologic conditions is based on review of geologic literature (e.g., Walters and Kimmell, 1968; Troost and Booth, in review) and soil and groundwater conditions observed during Site explorations. An area-wide geologic cross section, extending from south of the Site north to Commencement Bay is provided in Figure 3. Two hydrogeologic cross section extending south-north and west-east through the Site are provided in Figures 4 and 5.

Area Geology

The Tacoma uplands is characterized by a series of Quaternary-age glacial and interglacial deposits. As shown on Figure 3, the general sequence in the vicinity of the Site consists of approximately 80 feet of Vashon Stade glacial till (Qvt) and advance outwash (Qva) deposits overlying earlier Olympia Bed interglacial deposits (Qob) and undifferentiated, pre-Fraser glacial and interglacial deposits (Qpf). Undifferentiated pre-Olympia glacial and interglacial deposits (Qpo) outcrop near Commencement Bay.

The glacial till (Qvt) in this area consists of very dense, glacially overridden mixture of gravel, sand, silt, and clay deposited beneath the advancing glaciers. This unit typically exhibits low hydraulic conductivity and generally acts as a barrier to groundwater flow or infiltration of water from the ground surface.

The underlying advance outwash (Qva) consists of sands and gravels with minor amounts of silt and clay deposited by meltwater streams ahead of the advancing glaciers. This unit typically exhibits moderate to high hydraulic conductivity, and where saturated, can yield significant quantities of water.

The older glacial and interglacial deposits (Qob, Qpf, and Qpo) include glacial till and outwash deposits and interglacial alluvial and lacustrine deposits. The till and lacustrine deposits are generally fine-grained and act as barriers to groundwater flow, while the outwash and alluvial deposits are generally coarse-grained and act as pathways for groundwater flow. Based on soils observed during drilling of well MW-8D, at least the upper 50 feet of these older deposits consist primarily of silt and silty sand and gravel with a limited thickness of clean (i.e., non-silty) sand.

Site Hydrogeologic Conditions

Figure 4 and 5 depict hydrogeologic cross sections through the Site. Site soils consist of approximately 35 feet of silty sand and gravel, interpreted as glacial till, overlying approximately 30 feet of sand, interpreted as advance outwash. Underlying the outwash sand is a sequence consisting primarily of silt and silty sand, with a limited thickness of interbedded slightly silty sand. This sequence of silt, silty sand, and sand extends to at least 120 feet below ground surface (bgs), the maximum depth drilled at the Site.

Two water bearing zones were encountered at the Site. The upper water bearing zone occurs in the outwash sand, and extends from approximately 53 feet bgs to the base of the outwash at a depth of approximately 65 to 70 feet bgs. Eleven of the twelve Site wells are completed in the outwash sand. A deeper water bearing zone was encountered in a sand layer within the interbedded silt, silty sand, and sand at a depth of about 111 to 115 feet bgs. One Site well (MW-8D) is completed in the lower water bearing zone.

Five of the eleven wells completed in the outwash sand were dry. These dry wells are all located off-property along Tacoma Avenue North and North First Street. All wells completed on-property contained water. The boring for well MW-8D penetrated through the outwash sands (using a grouted conductor casing) and extended approximately 50 feet into the fine-grained underlying soils. The soils underlying the outwash were dry from near the base of the upper water bearing zone to the top of the lower water bearing zone. These observations indicate that the upper water bearing zone is perched on the underlying fine-grained soils and is not directly connected to the deeper water bearing zone. Additionally, the lateral extent of perched groundwater in the outwash sand is limited, and does not extend significantly off-property to the north or west. The lateral and vertical extent of the deeper water bearing zone could not be determined based on the available data.

Table 1 summarizes groundwater elevation measurements from all Site wells. Figure 6 presents groundwater elevation contours in the first water bearing zone based on the May 2009 groundwater level measurements. The groundwater elevation contours indicate the horizontal component of flow across the Property is to the northeast. Based on the perched nature of this upper water bearing zone a significant component of flow is expected to be vertically downward into the underlying fine-grained soils.

One possible explanation for the occurrence of the perched groundwater and the northward horizontal flow would be the presence of a localized area of increased groundwater recharge. The Site and most of the surrounding area is paved, with little landscaping or exposed surface soil. However, Wright Park, with approximately 30 acres of unpaved landscaping, is located immediately southwest of Site (Figure 1). It is likely that increased groundwater recharge from the park, through infiltration of precipitation and irrigation water used for landscaping, is contributing to the formation of perched groundwater conditions beneath the Site. Sewer and water utility lines in the area are also noted as a second potential source of localized recharge (sewer main lines are shown on Figure 2).

Site Investigations and Remedial Actions

Several environmental investigations and UST decommissioning activities have occurred at the Site. Soil investigation results and documentation of UST removal were submitted to Ecology in 1994. Monitoring well construction logs and laboratory certificates of analyses for investigations completed by Aspect Consulting, LLC (Aspect) in 2009 are provided in Attachments A and B, respectively. Results of investigations completed by Stemen Environmental, Inc. (Stemen Environmental) between 2006 and 2008 were not formally documented and reported to Ecology. A package of figures and data tables provided by Stemen Environmental is reproduced in Attachment C.

The following summarizes the scope and results of these activities.

UST Removal and Soil Investigation (1994)

In 1994, seven USTs and an associated pump island and product lines were removed and disposed off-site (Bison Environmental, 1994b). The USTs were located at the southwest corner of the Site (Figure 2). Reportedly three USTs contained gasoline, two contained oil or oily product, and two contained water at the time of removal.

Approximately 100 cubic yards of apparent petroleum-impacted soils were excavated from around and beneath the USTs and stockpiled for disposal. The excavation depth was reportedly about 10 feet bgs. Soil confirmation samples were collected from the excavation sidewalls and bottom and analyzed using the hydrocarbon identification (HCID) method. The HCID method does not quantify the concentration of TPH in soil, but instead indicates the presence or absence of specific ranges of TPH (i.e., gasoline, diesel, or oil). Samples collected beneath the gasoline USTs were also analyzed for gasoline-range total petroleum hydrocarbons (TPH); benzene, toluene, ethylbenzene, and total xylenes (BTEX); and lead. Gasoline-range TPH (39 mg/kg), ethylbenzene (0.33 mg/kg), total xylenes (3.3 mg/kg), and lead (6 mg/kg) were detected in one soil confirmation; fuel constituents were not detected in any other confirmation sample.

An eighth UST, located beneath a paint booth near the west side of the former Walker Chevrolet building, was closed in-place in 1994 (Figure 2). This UST reportedly contained heating oil used as fuel for the building's boiler (Bison Environmental, 1994c). Two floor drains, approximately 2 feet in diameter and 2.5 and 4 feet deep, respectively were also cleaned-out and closed at that time. The floor drains and UST were then filled with concrete slurry.

A direct-push drill rig was used to collect soil samples adjacent to the floor drains and heating oil UST. Soil samples were collected at depths ranging from 2 to 10 feet bgs and analyzed for TPH by Method WTPH-418.1 or the HCID method. Method WTPH-418.1 does not distinguish between different ranges of TPH (e.g., gasoline-range versus oil-range), and instead provides the total concentration of all TPH ranges. Select soil samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8240. One sample was also analyzed for metals and a separate sample was analyzed for gasoline-range TPH.

The HCID analyses identified both gasoline- and oil-range hydrocarbons in soil and the WTPH-418.1 analyses detected concentrations of TPH of up to 8,000 mg/kg. Gasoline-range TPH was detected in the one sample analyzed at a concentration of 100 mg/kg. The WTPH-418.1 analytical results are not directly comparable to currently available MTCA cleanup levels; however, some detected concentrations exceeded cleanup levels applicable in 1994.

Several VOCs were detected in soil beneath the paint booth area. Detected VOCs and maximum detected concentrations include benzene (0.024 mg/kg), toluene (85 mg/kg), ethylbenzene (2.2 mg/kg), total xylenes (143 mg/kg), tetrachloroethene (0.21 mg/kg), and naphthalene (1.1 mg/kg).

The metals barium (43.8 mg/kg), cadmium (50.2 mg/kg), chromium (110 mg/kg), and lead (2,140 mg/kg) were detected in the one sample analyzed from the paint booth area.

Groundwater and Soil Investigations (2006 through 2008)

Between August 2006 and April 2008 a series of soil, groundwater, soil vapor, and indoor air quality investigations were completed at the Site by Stemen Environmental. These investigations were completed as due diligence on behalf of a potential buyer of the property.

Soil Investigation Results

Soil samples were collected at the Site between August and October 2006. Twenty-four soil samples were analyzed for gasoline-, diesel-, and oil-range TPH and 16 of these samples were also analyzed for BTEX compounds. Twenty-one soil samples were analyzed for VOCs. One soil sample from the former UST area was analyzed for polychlorinated biphenyls (PCBs) and semivolatile organic compounds (SVOCs).

Gasoline-range TPH was detected in two soil samples collected from the former UST excavation at depths of 15 feet bgs. Detected concentrations were 360 and 920 mg/kg. Benzene (6.1 mg/kg), toluene (4.1 mg/kg), ethylbenzene (6 mg/kg), and total xylenes (12 mg/kg) were also detected in one of these samples. SVOCs and PCBs were not detected in the one soil sample analyzed for these constituents from the former UST area.

Gasoline-range TPH was detected at a concentration of 30 mg/kg in a sample collected at depth of 8 feet in the paint booth area. A low concentration of total xylenes (0.13 mg/kg) was the only BTEX compound detected in the paint booth area soils. The chlorinated solvent PCE was detected in the paint booth area at a concentration of 0.16 mg/kg in soil samples collected at depths of 4 and 8 feet.

Four soil samples were collected from beneath the dry cleaners and two soil samples were collected beneath the adjacent Thriftway office. Sampling depths beneath the dry cleaners were not provided. Samples from beneath the Thriftway office were collected at depths of 0 to 2 feet and 2 to 3 feet. All samples were analyzed for VOCs. Beneath the dry cleaners PCE was detected in all four samples at concentrations ranging from 1.5 to 18 mg/kg. Low concentrations of TCE (0.28 to 0.85 mg/kg) and cis-1,2-DCE (0.06 mg/kg) were also detected in one or more of these samples. Beneath the Thriftway office PCE was detected in both samples at a concentration of 0.04 mg/kg.

Groundwater Investigation Results

Three apparent groundwater grab samples were collected from beneath the dry cleaners and one groundwater sample was collected beneath the Thriftway office. These samples were analyzed for VOCs. Sampling depths beneath the dry cleaners were not provided. The sample from beneath the Thriftway office was collected at a depth of 6 inches. Chlorinated solvents were detected in all four groundwater grab samples. Detected chlorinated VOCs and maximum detected concentrations include PCE (13,000 µg/L), TCE (33 µg/L), and cis-1,2-DCE (24 µg/L).

A total of eight monitoring wells (MW-1 through MW-8 on Figure 2) were installed under the direction of Stemen Environmental between January 2007 and April 2008. Wells MW-1 through MW-7 were completed to depths of about 65 feet bgs, with 15 feet of screen. Well MW-8 was completed to a depth of 61 feet bgs with 10 feet of screen. Wells MW-3, MW-4, and MW-6,

located off-property along North First Street and Tacoma Avenue North, were dry. The other wells contained water at depths of about 52 to 53 feet bgs.

Monitoring wells MW-1 and MW-2 were sampled in August 2007 and January 2008; wells MW-5 and MW-7 were sampled twice in January 2008; and well MW-8 was sampled in April 2008. All samples were analyzed for VOCs. Results are summarized on Table 1.

Detected constituents include PCE and its degradation daughter products TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride. Chloroform and carbon tetrachloride were also detected in multiple wells. Chloroethane was detected in well MW-2 and benzene was detected once in well MW-1. Detected concentrations of PCE and its daughter products were highest at MW-2 and MW-8, located adjacent to Morrell's Dry Cleaners, with significantly lower concentrations at MW-5 and MW-7, located approximately 50 to 80 feet southwest and southeast of the dry cleaners, respectively.

Soil Gas Investigation Results

Six soil gas samples (GV-1 through GV-6) were collected at the Property in May 2008. Samples GV-1 through GV-3 were apparently collected beneath the concrete slab in the paint booth area. These samples had detectable concentrations of PCE (110 to 1,000 $\mu g/m^3$), toluene (130 to 240 $\mu g/m^3$), and xylenes (150 to 230 $\mu g/m^3$).

Samples GV-4 through GV-6 were apparently collected beneath the concrete slab in the dry cleaners building. When Stemen Environmental attempted to collect these soil gas samples they encountered flooded conditions, apparently due to a water pipe break in the adjacent building to the northeast. It is unclear how the flooding may have influenced soil gas conditions during that sampling event. These samples had detectable concentrations of PCE (1,600 to 70,000 $\mu g/m^3$), TCE (2,700 to 7,800 $\mu g/m^3$), cis-1,2-DCE (320 to 16,000 $\mu g/m^3$), and vinyl chloride (one detection, 540 $\mu g/m^3$), benzene (140 to 390 $\mu g/m^3$), and toluene (100 to 270 $\mu g/m^3$).

Sewer Evaluation and Soil Gas Sampling (2008)

In January 2009 Aspect completed a review of City of Tacoma utility records and directed a video inspection of the sewer line leading from Morrell's Dry Cleaners. Aspect also collected soil vapor samples along the path of the sewer line and adjacent to the Morrell's building (Aspect, 2009).

The video survey identified an apparent gap in the Morrell's sewer service connection near where it joins the sanitary sewer mainline. Soil gas samples were taken at four locations, including near the gap identified in the sewer line, immediately north and south of the dry cleaner building adjacent to the side sewer, and above the sewer mainline approximately 110 feet downstream of the side sewer connection. Soil gas samples were analyzed for VOCs.

The only chlorinated VOC detected was PCE. There were no detections in the soil vapor sample collected at the gap in the side sewer. The soil gas samples collected at the south and north side of the building had PCE concentrations of 200 and 6,500 $\mu g/m^3$, respectively. The soil gas sample collected adjacent to the sewer mainline had a PCE concentration of 400 $\mu g/m^3$.

Additional Groundwater Investigation (2008 and 2009)

Aspect conducted additional groundwater investigations at the Site in October 2008 and May 2009. In October 2008, Aspect measured water levels and collected samples from the monitoring well network installed by Stemen Environmental. In May 2009 Aspect installed four new monitoring wells at the Site (MW-8D and MW-9 through MW-11 on Figure 2). Following well installation a round of groundwater sampling and groundwater elevation measurements was completed at all existing and new monitoring wells.

Well MW-8D is located between MW-8 and MW-2, the wells that previously contained the highest chlorinated VOC concentrations. This well was installed to a depth of 116 feet to assess potential impacts to deeper groundwater beneath the Site. To avoid the potential for contaminant carry-down from the known impacted groundwater at a depth of about 50 feet this well was installed using an 8-inch conductor casing advanced to a depth of approximately 70 feet. The conductor casing was then sealed with bentonite and allowed to cure overnight. Then a 6-inch casing was used inside the 8-inch conductor casing to drill to the total depth and install the 2-inch monitoring well.

Wells MW-9 and MW-10 were completed in North Tacoma Avenue, in the apparent downgradient direction from wells MW-2 and MW-8. These wells were completed at depths of about 70 feet bgs and were intended to tap the same water bearing zone as wells MW-2, MW-5, and MW-8. Well MW-11was installed in the paint booth area to a depth of 63 feet. The purpose of this well was to assess any impacts to groundwater from operations at the former Walker Chevrolet building.

Measured groundwater elevations at Site wells are summarized in Table 1. Consistent with previous observations, Stemen Environmental wells MW-3, MW-4, and MW-6 were dry in both October 2008 and May 2009. The two new wells added by Aspect and located on Tacoma Avenue North (MW-9 and MW-10) were also dry. Depth to water in the Aspect well MW-8D was about 60 feet deeper than in other Site wells containing water.

Groundwater samples were collected from Site wells in October 2008 and May 2009 and analyzed for VOCS. Laboratory certificates of analysis are provided in Attachment B and results are summarized in Table 2. Analytical results from well MW-1, MW-2, MW-5, MW-7, and MW-8 are consistent with previous groundwater sampling results. The groundwater sample from well MW-11, located in the paint booth area, contained low concentrations of TCE, carbon tetrachloride, and chloroform. The groundwater sample from deep well MW-8D contained low concentrations of cis-1,2-DCE and carbon tetrachloride.

Preliminary Conceptual Site Model

This section presents the preliminary Conceptual Site Model (CSM), including identification of Chemicals of Potential Concern (COPCs) based on comparison of soil and groundwater analytical data to regulatory screening levels; the nature and extent of COPCs; and potential exposure pathways.

Screening Levels

Under MTCA, cleanup levels are categorized as Method A, B, or C. Method A cleanup levels, which apply to soil and groundwater media, are applicable at sites where the cleanup is routine or involves relatively few hazardous substances. MTCA includes tables of Method A groundwater cleanup levels for potable groundwater and Method A soil cleanup levels for unrestricted (including residential) land use and industrial land use. Method A cleanup levels for soil and groundwater must be at least as restrictive as requirements under applicable state and federal laws. In addition, Method A soil cleanup levels must be protective of terrestrial ecological receptors, unless it can be demonstrated that such exposure is not of concern at the site.

Method B cleanup levels may be used for all media at any site. Under Method B, cleanup levels for individual hazardous substances are established using applicable state and federal laws and the risk equations and other requirements specified in the MTCA rules for each medium. In addition, Method B soil cleanup level must be protective of terrestrial ecological receptors.

Method C cleanup levels are intended for industrial sites where compliance with Method A or B cleanup levels may be impossible to achieve or may cause greater environmental harm. Site cleanups establishing Method C cleanup levels must have restrictions placed on the property (institutional controls) to ensure future protection of human health and the environment.

For the purposes of this memorandum, soil and groundwater screening levels were established using MTCA Method A soil and groundwater cleanup levels, where available, and using published MTCA Method B table values from the Washington State Department Ecology's (Ecology) Cleanup Level and Risk Calculation database where Method A cleanup levels are not available. Tables 3 and 4 summarizes the established screening levels for all contaminants detected to date in soil or groundwater on the Property.

Chemicals of Potential Concern

Chemicals of Potential Concern in soil and groundwater were identified based on a comparison of detected contaminant concentrations from previous investigations to the screening levels established above.

The comparisons of detected soil contaminant concentrations to screening levels are shown in Table 3. Contaminants in soil with concentrations exceeding the screening levels based on MTCA Method A unrestricted land use include:

- PCE
- TCE
- Benzene
- Toluene
- Total Xylenes
- Gasoline-range TPH

- Lead

The comparisons of detected groundwater contaminant concentrations to screening levels are shown in Table 4. Contaminants in groundwater with concentrations exceeding the screening levels based on potable groundwater use (MTCA Method A values) where available, or MTCA Method B values where no Method A value exists, include:

- PCE
- TCE
- Cis-1,2-DCE
- Vinyl Chloride
- Carbon Tetrachloride

Nature and Extent of COPCs

The nature and extent of COPCs in soil is summarized for three areas at the Site, specifically Morrell's Dry Cleaners, the former USTs area at the south end of the Property, and the paint booth area. This summary of soil conditions is followed by a summary of the nature and extent of COPCs in groundwater beneath the Site.

Morrell's Dry Cleaners Area

Soil beneath the dry cleaning building exceeds screening levels for PCE and TCE. The lateral extent and the depth of contamination beneath the building have not been fully delineated. One soil sample collected adjacent to the east side of the building at a depth of 8 feet did not contain detectable concentrations of PCE or TCE.

Based on the distribution of COPCs in groundwater, the soil beneath the dry cleaners building is likely acting as a source of PCE and TCE to groundwater in the upper water bearing zone.

Former UST Area

Soils remain in place in this area with concentrations of gasoline-range TPH, benzene, and total xylenes exceeding screening levels. During UST removal in 1994 contaminated soils in this area were excavated to a depth of about 10 feet bgs. Confirmation sampling at that time indicated that the sidewalls and bottom of the excavation did not contain TPH or BTEX compounds at concentrations exceeding cleanup levels. Subsequent soil sampling by Stemen Environmental in 2006 identified contaminated soils at a depth of 15 feet bgs. Based on these data TPH-, benzene-, and xylenes-impacted soil remains in place, but is limited to depths of greater than 10 feet bgs.

Groundwater samples from the Site have not been analyzed for TPH; however, analyses of groundwater samples for the more mobile BTEX compounds have not detected these constituents at concentrations exceeding screening levels. Based on this, the soil remaining in place in the former UST area is not acting as a source of COPCs to groundwater.

Paint Booth Area

Analysis of samples collected in 1994 in the paint booth area indicate the presence of toluene, PCE, and lead in soil at concentrations greater than current screening levels, based on this updated comparison. The 1994 TPH data did not differentiate between gasoline-, diesel-, and oil-range TPH; however, given the high total TPH concentration (8,000 mg/kg) in one sample from this area it is likely remaining soil would exceed screening levels for one or more of the TPH ranges.

Toluene is not a COPC in groundwater and PCE was not detected in groundwater from the monitoring well (MW-11) located in the paint booth area, indicating that the soil in this area is not acting as a source of these constituents to groundwater. The soil screening level for lead of 250 mg/kg is based on human exposure to lead in soil, not leaching of lead from soil to groundwater. Although groundwater at the Site has not been analyzed for lead, this metal typically exhibits low mobility and the soil in the paint booth area is likely not leaching lead to groundwater.

COPCs in Groundwater

The dry cleaning solvent PCE and its daughter products TCE, cis-1,2-DCE, and vinyl chloride exceed screening levels in wells MW-2 and MW-8, located adjacent to and immediately downgradient from the dry cleaner building. A significantly lower concentration of PCE, although still above screening levels, was detected in well MW-5, located immediately upgradient from the dry cleaner building. Based on this pattern of detections, it appears that the source of these constituents in groundwater is the PCE and TCE in soil beneath the dry cleaners building.

With the exception of a relatively low concentration of cis-1,2-DCE, PCE and its other daughter products were not detected in the deep well (MW-8D). These data indicate that the approximately 50 feet of unsaturated silt and silty sand underlying the upper water bearing zone is acting as an effective barrier to downward migration of these contaminants.

Carbon tetrachloride was detected one or more times in four of the six wells completed in the upper water bearing zone and the deep well (MW-8D) at concretions exceeding screening levels. The only wells where carbon tetrachloride has not been detected are MW-1 and MW-8, located at the former USTs and near the dry cleaners, respectively. A soil source for carbon tetrachloride in groundwater has not been identified, and the pattern of detected concentrations in groundwater does not imply a specific source area.

Exposure Pathways and Receptors

An exposure pathway describes the mechanisms by which human or ecological exposure to site contaminants can occur under baseline site conditions, assuming no remedial action or protective control is in place. To be considered complete, an exposure pathway must have:

- An identified source of contaminants;
- A mechanism for contaminant release and transport from the source;
- An exposure route by which contact with the contaminant can occur; and

- A receptor that can be exposed to the contaminant.

An exposure pathway is considered complete if a human or ecological receptor can be exposed to a contaminant via that pathway.

Contaminant sources include historical releases of fuel constituents to soil at the former USTs; historical releases of fuels, solvents, and metals to soil in the paint booth area; and historical releases of PCE to soil at the dry cleaners. The PCE and TCE in soil at the dry cleaners are acting as a secondary source of contamination of the upper water bearing zone in that area of the Site. Contaminants in soil elsewhere at the Site do not appear to be acting as secondary sources of groundwater contamination.

Potential exposure pathways and receptors for COPCs in soil and groundwater are summarized below.

Soil

Potential exposure pathways and receptors for COPCs in Site soils include:

- Workers contacting contaminated soils in the future (skin contact or incidental ingestion) during excavation or other construction-related activities, if no worker protection controls are in place. This pathway is applicable to all COPCs in soil;
- Humans in buildings inhaling indoor air contaminated – via vapor intrusion – by the volatilization of contaminated soils. This pathway is limited to volatile COPCs in soil (i.e., benzene, toluene, total xylenes, PCE, and TCE); and
- Terrestrial ecological receptors contacting contaminated soils in the future, if no controls are in place.

Areas of the Property with COPCs in soil are paved with asphalt or covered with buildings, limiting the potential for the human or ecological receptor direct contact pathways under current conditions. Any future construction activities in these areas that disturb the overlying pavement could result in completion of the human direct contact pathway, but could be effectively managed with suitable soil handling protocols. Soil vapor and indoor air monitoring results indicate that the vapor intrusion pathway may currently be complete at the dry cleaner building, although the measured concentrations of chlorinated solvents in indoor air may be attributed to proximity of the operating dry cleaner with a long history of solvent usage.

Groundwater

Potential exposure pathways and receptors for COPCs in groundwater include:

- Humans who drink contaminated groundwater in the future, if groundwater is brought to the surface for this purpose;
- Direct exposure for aquatic ecological receptors in Commencement Bay, if contaminants in groundwater discharge to surface water; and
- Humans consuming aquatic ecological receptors contaminated by discharges to surface water.

Based on the perched nature and limited lateral extent of the upper water bearing zone and the limited detection of CPOCs in the deeper water bearing zone, it is unlikely that contaminants in groundwater from this upper water bearing zone are discharging to surface water. As a result, the human consumption and direct exposure for aquatic ecological receptor pathways are likely not completed at this Site.

Groundwater from the upper water bearing zone is not currently used as a drinking water source. Based on the limited saturated thickness and lateral extent of this zone, it is unlikely to be used for drinking water purposes in the future. Therefore, human drinking water pathway is not currently complete, nor is it expected to be complete in the future.

Recommendations

We recommend pursuing Site cleanup and closure through Ecology's Voluntary Cleanup Program (VCP). Specific recommended actions include:

- Submit this report and other relevant reports to Ecology with a completed VCP application packet.
- Schedule a meeting with the Ecology site manager to review findings to date and solicit input on the current Site Conceptual Model.
- Provide notice to other Potentially Liable Parties of work completed to date and potential cleanup actions, in accordance with MTCA provisions for private rights of action (Chapter 173-340-545 WAC).
- Prepare a Remedial Investigation and Focused Feasibility Study (RI/FFS) in accordance with MTCA based on the data summarized in this memorandum. The RI/FFS would assess the soil and groundwater conditions and evaluate presumptive remedial alternatives appropriate for the types of contaminants and planned land uses at the Property.
- The existing data are generally sufficient to assess the nature and extent of contaminated soil and groundwater at the Site. The RI/FFS will likely recommend additional investigation and/or pilot testing to address data gaps needed to finalize the Site Conceptual Model prior to selection of a remedial approach.
- Develop a Cleanup Action Plan (CAP). The CAP would describe the planned approach for remediation. The CAP and RI/FFS should be submitted to Ecology for review and comment prior to implementation to gain agency concurrence on the plan.

Limitations

Work for this project was performed and this memorandum prepared in accordance with generally accepted professional practices for the nature and conditions of work completed in the same or similar localities, at the time the work was performed. It is intended for the use of Dave Shaw, Successor to Walker Chevrolet for specific application to the referenced property. This memo does not represent a legal opinion. No other warranty, expressed or implied, is made.

References

Aspect Consulting, 2009, Sewer Evaluation Results and Work Plan for Additional Groundwater Investigation, Memorandum to Dave Shaw, Successor to Walker Chevrolet and Michael Bond, Gardner Bond Trabolsi, PLLC, February 2.

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Bison Environmental Northwest, Inc., 1994b, Underground Storage Tank Removal Site Assessment and Independent Remedial Action Report for Walker Chevrolet, 633 Division Avenue, Tacoma, Washington, August 1994.

Bison Environmental Northwest, Inc., 1994c, Phase 2B Subsurface Sampling, Walker Chevrolet – Paint Booth, 633 Division Avenue, Tacoma, Washington, September 12.

Troost, K.G., and Booth, D.B., in review, Geologic map of the Tacoma North 7. 5-minute quadrangle, Washington, U. S. Geological Survey, Miscellaneous Field Investigation, scale 1:24,000.

Walters, K.L. and Kimmell, G.E., 1968, Ground-Water Occurrence and Stratigraphy of Unconsolidated Deposits, Central Pierce County, Washington, State of Washington Department of Water Resources Water Supply Bulletin No. 22.

Attachments:
Table 1 – Groundwater Elevations
Table 2 – Groundwater Sampling Results
Table 3 – Soil Screening Levels
Table 4 – Groundwater Screening Levels
Figure 1 – Site Vicinity Map
Figure 2 – Well Location Plan
Figure 3 – Cross Section A-A’
Figure 4 – Cross Section B-B’
Figure 5 – Cross Section C-C’
Figure 6 – Groundwater Elevation Contour Map
Figure 7 – Groundwater Quality Data
Attachment A – Boring Logs
Attachment B – Laboratory Certificates of Analysis
Attachment C – Data Provided by Stemen Environmental, Inc.

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Table 1 - Groundwater Elevations

Stadium Property, Tacoma, Washington

Well ID	Date	TOC Elev.	Depth to Water	GW Elev.
MW-1	2/27/2008	275.25	52.32	222.93
	10/2/2008		53.09	222.16
	5/11/2009		53.68	221.57
MW-2	2/27/2008	273.14	51.50	221.64
	10/2/2008		51.84	221.30
	5/12/2009		52.42	220.72
MW-3	2/27/2008	272.77	dry	dry
	10/2/2008		dry	dry
	5/11/2009		dry	dry
MW-4	2/27/2008	273.01	dry	dry
	10/2/2008		dry	dry
	5/11/2009		dry	dry
MW-5	2/27/2008	273.13	50.87	222.26
	10/2/2008		51.65	221.48
	5/11/2009		52.28	220.85
MW-6	2/27/2008	272.55	dry	dry
	10/2/2008		dry	dry
	5/11/2009		dry	dry
MW-7	2/27/2008	274.44	52.90	221.54
	10/2/2008		53.08	221.36
	5/11/2009		53.69	220.75
MW-8	10/2/2008	273.14	52.68	220.46
	5/12/2009		53.28	219.86
MW-8D	5/11/2009	273.11	112.56	160.55
MW-9	5/11/2009	273.78	dry	dry
MW-10	5/11/2009	274.45	dry	dry
MW-11	5/12/2009	273.52	52.20	221.32

All measurements are in feet.

Table 2 - Groundwater Sampling Results

Stadium Property, Tacoma, Washington

Well ID	Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroethane	Chloroform	Carbon Tetrachloride	Benzene
MW-1	08/28/07	1.3	<1	<1	<1	<0.2	<1	<1	<1	2.2
	01/30/08	<1	<1	<1	<1	<0.2	<1	<1	<1	<1
	10/02/08	<1	<1	<1	<1	<0.2	<1	<1	<1	<1
	05/11/09	<1	<1	<1	<1	<0.2	<1	<1	<1	<1
MW-2	08/28/07	**2,900**	(Note 1)	**7,100**	7.4	**19**	8.1	1	**1.0**	(Note 1)
	01/30/08	**1,400**	**520**	**2,000**	3	<0.2	<1	2.5	<1	<1
	10/02/08	**1,900**	**880**	**2,300**	5.3	**3.1**	1.0	3.5	**1.0**	<1
	05/12/09	**1,600**	**930**	**2,400**	5.7	**2.7**	<1	4.0	<1	<1
MW-5	01/22/08	**67**	3	13	<1	<0.2	<1	2.1	**3.3**	<1
	01/30/08	**31**	1.1	4.5	<1	<0.2	<1	1.8	**2.0**	<1
	10/02/08	**75**	3.2	17	<1	<0.2	<1	1.9	**1.2**	<1
	05/11/09	**17**	1.1	44	<1	<0.2	<1	<1	<1	<1
MW-7	01/22/08	**6.6**	<1	<1	<1	<0.2	<1	<1	<1	<1
	01/30/08	**1.5**	<1	<1	<1	<0.2	<1	<1	**1.5**	<1
	10/02/08	<1	<1	<1	<1	<0.2	<1	<1	**1.5**	<1
	05/11/09	1.1	<1	<1	<1	<0.2	<1	<1	**2.0**	<1
MW-8	04/22/08	**1,300**	**780**	**2,400**	6.3	0.2	<1	2.5	<1	<1
	10/02/08	**680**	**390**	**3,600**	7.6	**6.9**	<1	2.5	<1	<1
	05/12/09	**780**	**370**	**2,600**	3.7	**2.0**	<1	2.5	<1	<1
MW-8D	05/11/09	<1	<1	11	<1	<0.2	<1	<1	**1.9**	<1
MW-11	05/12/09	<1	2.3	<1	<1	<0.2	<1	1.9	**1.4**	<1

Notes:

1) For the sample collected from MW-2 on 8/28/07, the lab reported 1,800 µg/L benzene and <1 µg/L TCE. This is likely an error; apparently the gas chromatograph peak identified by the lab as benzene was actually a TCE peak.

PCE - tetrachloroethene

TCE - trichloroethene

cis-1,2-DCE - cis-1,2-dichloroethene

trans-1,2-DCE - trans-1,2-dichloroethene

BOLD signifies exceedence of groundwater screening levels (see Table 4)

Table 3 - Soil Screening Levels

Stadium Property, Tacoma, Washington

Constituent	MTCA Method A (Unrestricted Land Use)	MTCA Method B (Carcinogen)	MTCA Method B (Non-carcinogen)	Selected Screening Level	Maximum Detected Concentration
Petroleum Hydrocarbons					
Gasoline-Range	30/100[1]	NE	NE	30	920
Oil-Range	2,000	NE	NE	2,000	94
VOCs					
Benzene	0.03	18	320	0.03	6.1
Toluene	7	NE	6,400	7	85
Ethylbenzene	6	NE	8,000	6	6
Total Xylenes	9	NE	16,000	9	143
Naphthalene	5	NE	1,600	5	1.1
Tetrachloroethene	0.05	1.9	800	0.05	18
Trichloroethene	0.03	11	24	0.03	0.85
cis-1,2-Dichloroethene	NE	NE	800	800	0.06
Metals					
Barium	NE	NE	16,000	16,000	43.8
Cadmium	2	NE	80	2	50.2
Chromium[2]	2,000	NE	120,000	2,000	110
Lead	250	NE	NE	250	2,140

Notes:

All values are in units of mg/kg

[1] MTCA Method A soil cleanup levels where detectable benzene is absent/present.

[2] Cleanup levels are for the trivalent form of chromium.

Highlighted constituents - retained as Constituents of Potential Concern

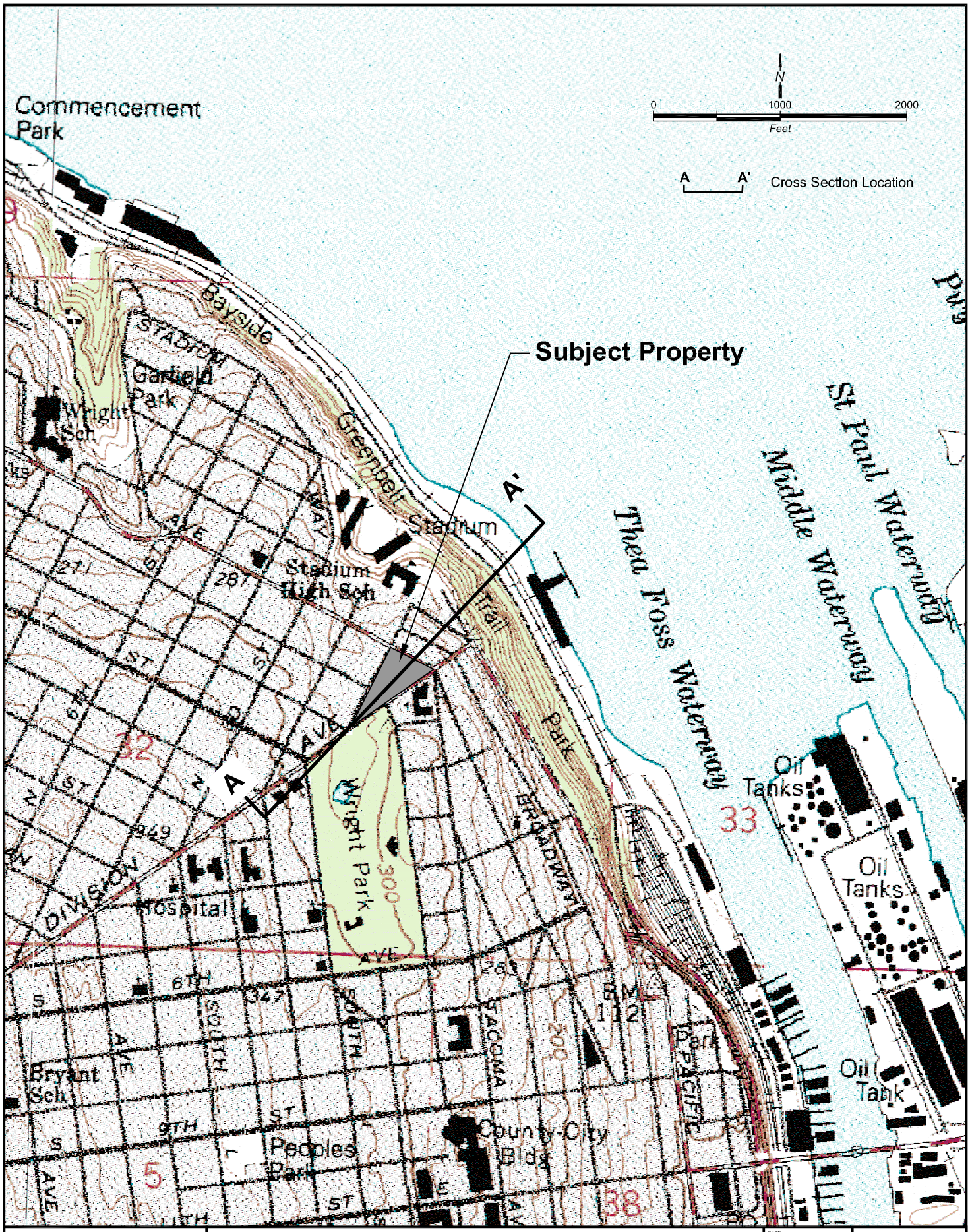
NE- Not Established

Table 4 - Groundwater Screening Levels

Stadium Property, Tacoma, Washington

Constituent	MTCA Method A	MTCA Method B (Carcinogen)	MTCA Method B (Non-carcinogen)	Selected Screening Level	Maximum Detected Concentration
VOCs					
Benzene	5	0.8	32	5	2.2
Tetrachloroethene	5	0.081	80	5	2,900
Trichloroethene	5	0.49	2.4	5	930
cis-1,2-Dichloroethene	NE	NE	80	80	7,100
trans-1,2-Dichloroethene	NE	NE	160	160	7.4
Vinyl Chloride	0.2	0.029	24	0.2	19
Chloroethane	NE	NE	NE	NE	8.1
Chloroform	NE	7.2	80	7.2	4
Carbon Tetrachloride	NE	0.34	5.6	0.34	3.3

Notes:
All values are in units of μg/L
Highlighted constituents - retained as Constituents of Potential Concern
NE- Not Established



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Site Vicinity Map

Former Walker Chevrolet Property
Tacoma, Washington

DATE: June 2009	PROJECT NO. 080190
DESIGNED BY: SCC	
DRAWN BY: SCC	FIGURE NO. 1
REVISED BY: -	

Q:_GeoTech\090190 Stadium Thriftway\2009-06\080190-01.dwg

TACOMA AVENUE NORTH

NORTH BROADWAY

"G" STREET

NORTH 1ST STREET

DIVISION AVENUE

B

B'

C

C'

MW-1

MW-2

MW-3

MW-4

MW-5

MW-6

MW-7

MW-8

MW-8D

MW-9

MW-10

MW-11

Restaurant and Lounge

Investment Services

The Tailor

Morrell's Dry Cleaners

Angelo Mendi Boutique/Salon

Dental Health Center

Paint Booth

UST (Closed In-Place)

Bruce Titus Chevrolet & Stadium Thriftway

Former USTs

N

0 50 100

Feet

LEGEND

- Existing Monitoring Well
- Cross Section Location
- Sanitary Sewer Line
- Storm Sewer Line
- Parcel Boundaries
- Former Walker Chevrolet Property

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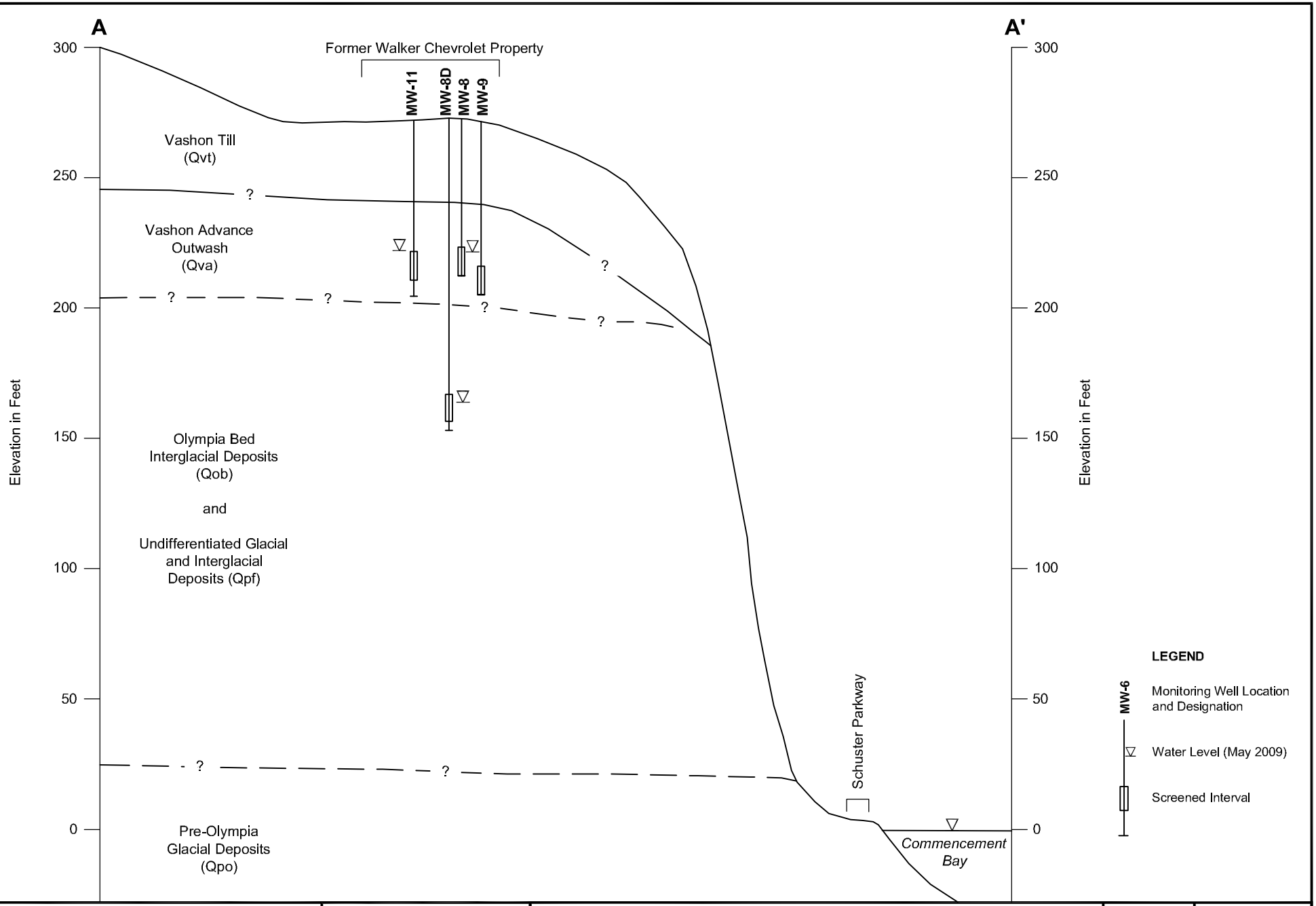
Well Location Plan

Former Walker Chevrolet Property
Tacoma, Washington

DATE: July 2009	PROJECT NO. 080190
DESIGNED BY: DAH	
DRAWN BY: SCC	FIGURE NO. 2
REVISED BY: SCC	

Q:_GeoTech\080190 Stadium Thriftway\2009-02\080190-04



Horizontal Scale
0 0.1
Miles

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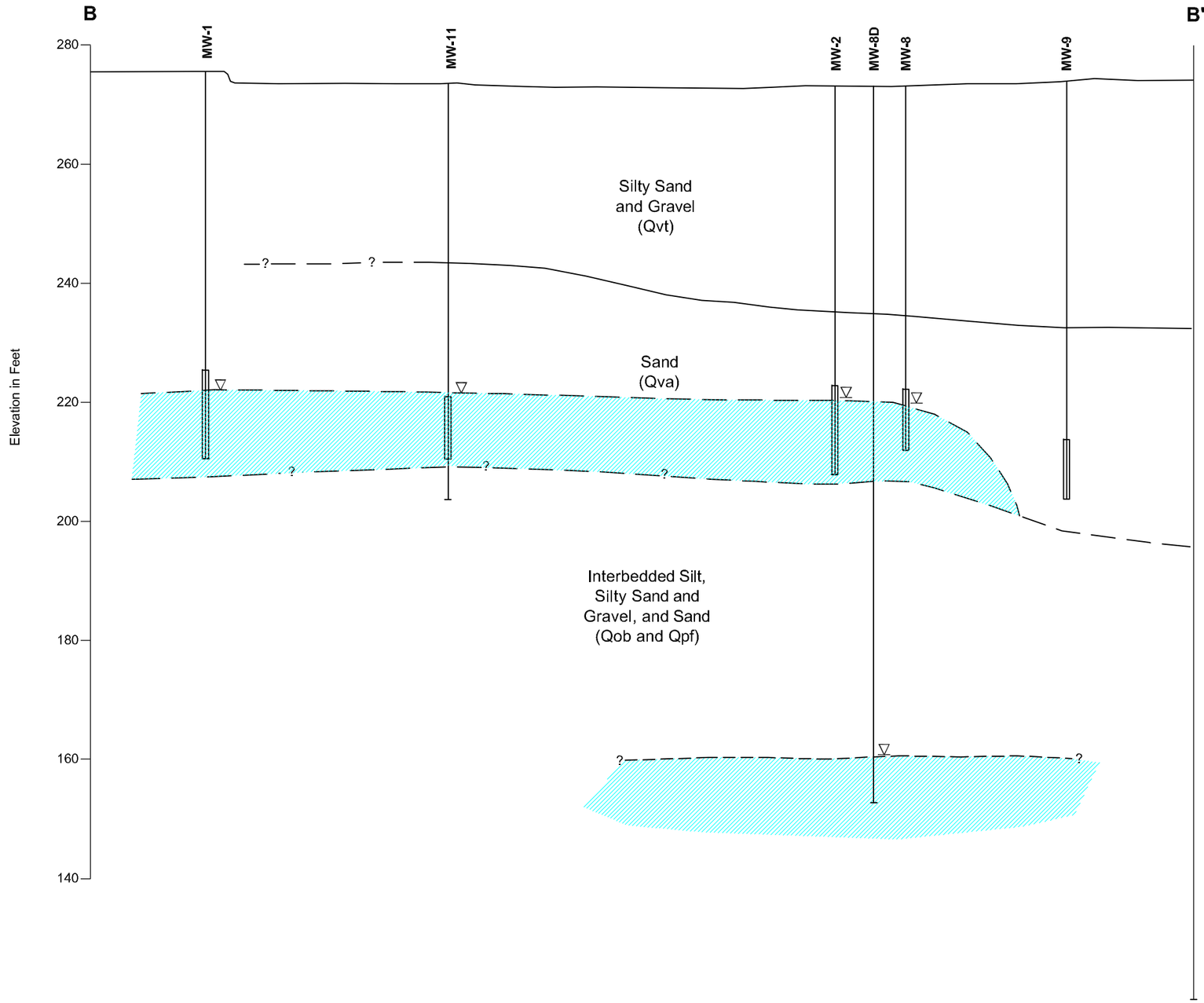
Cross Section A-A'

Former Walker Chevrolet Property
Tacoma, Washington

DATE: July 2009	PROJECT NO. 080190
DESIGNED BY: JM	
DRAWN BY: SCC	FIGURE NO. 3
REVISED BY: SCC	

Q:_GeoTech\090190 Stadium Thriftway\2009-06\080190-AA.dwg



LEGEND

MW-9 Monitoring Well Location and Designation

Water Level (May 2009)

Screened Interval

Saturated Interval

Horizontal Scale

0 50 100

Feet

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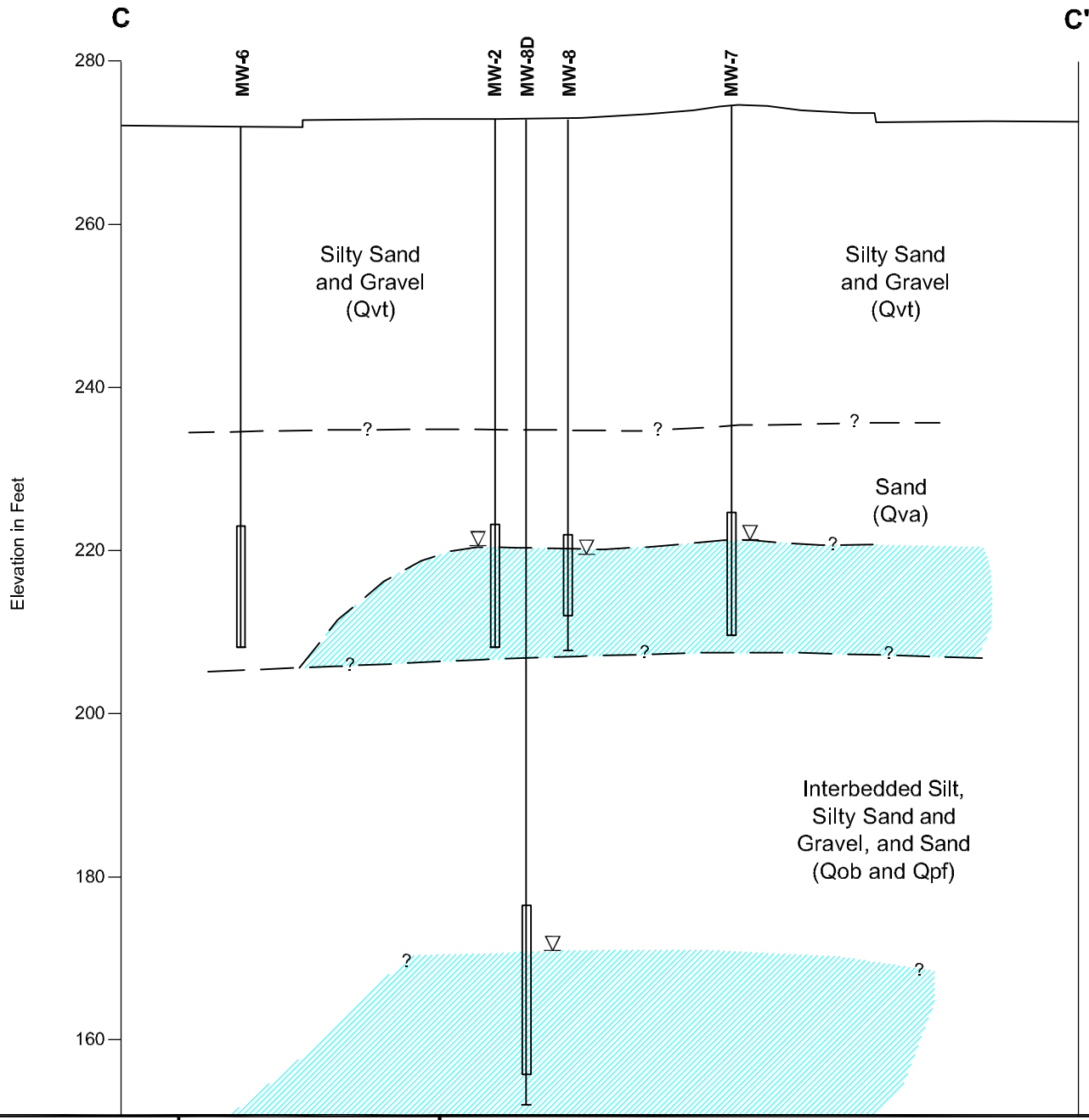
Cross Section B-B'

Former Walker Chevrolet Property
Tacoma, Washington

DATE: July 2009	PROJECT NO. 080190
DESIGNED BY: JM	
DRAWN BY: SCC	FIGURE NO. 4
REVISED BY: SCC	

Q:_GeoTech\090190 Stadium Thriftway\2009-06\080190-BB.dwg



Horizontal Scale

0 50 100

Feet

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Cross Section C-C'

Former Walker Chevrolet Property
Tacoma, Washington

DATE: July 2009	PROJECT NO. 080190
DESIGNED BY: JM	
DRAWN BY: SCC	FIGURE NO. 5
REVISED BY: SCC	

Q:_GeoTech\090190 Stadium Thriftway\2009-06\080190-CC.dwg

TACOMA AVENUE NORTH

NORTH BROADWAY

"G" STREET

NORTH 1ST STREET

DIVISION AVENUE

MW-4
Dry

MW-6
Dry

MW-9
Dry

MW-10
Dry

MW-3
Dry

MW-8D
(160.55)

MW-2
220.72

MW-8
219.86

MW-5
220.85

MW-7
220.75

MW-11
221.32

MW-1
221.57

Restaurant and Lounge

Investment Services

The Tailor

Angelo Mendi Boutique/Salon

Dental Health Center

Morrell's Dry Cleaners

Paint Booth

UST (Closed In-Place)

Bruce Titus Chevrolet & Stadium Thriftway

Former USTs

220'

220.5'

221'

N

0 50 100

Feet

LEGEND

- Existing Monitoring Well
- Sanitary Sewer Line
- Storm Sewer Line
- Shallow Aquifer Groundwater Elevation Contour in Feet
- Estimated Limit of Shallow Aquifer
- 220.85 Groundwater Elevation in Shallow Aquifer
- (160.55) Groundwater Elevation in Deep Aquifer

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Groundwater Elevation Contour Map May 2009

Former Walker Chevrolet Property

Tacoma, Washington

DATE: July 2009	PROJECT NO. 080190
DESIGNED BY: DAH	
DRAWN BY: SCC	FIGURE NO. 6
REVISED BY: SCC	

Q:_GeoTech\080190 Stadium Thriftway\2009-02\080190-04

TACOMA AVENUE NORTH

NORTH BROADWAY

"G" STREET

NORTH 1ST STREET

DIVISION AVENUE

MW-8D	PCE	TCE	DCE	VC	CT
5/11/09	<1	<1	11	<0.2	1.9

MW-8	PCE	TCE	DCE	VC	CT
5/12/09	780	370	2600	2.0	<1

MW-2	PCE	TCE	DCE	VC	CT
5/12/09	1600	930	2400	2.7	<1

MW-5	PCE	TCE	DCE	VC	CT
5/11/09	17	1.1	44	<0.2	<1

MW-7	PCE	TCE	DCE	VC	CT
5/11/09	1.1	<1	<1	<0.2	2.0

MW-1	PCE	TCE	DCE	VC	CT
5/11/09	<1	<1	<1	<0.2	<1

MW-11	PCE	TCE	DCE	VC	CT
5/12/09	<1	2.3	<1	<0.2	1.4

MW-1 Dry
MW-2
MW-3 Dry
MW-4 Dry
MW-5
MW-6 Dry
MW-7
MW-8
MW-8D
MW-9 Dry
MW-10 Dry
MW-11

Restaurant and Lounge
Investment Services
The Tailor
Morrell's Dry Cleaners
Angelo Mendi Boutique/Salon
Dental Health Center
Paint Booth
UST (Closed In-Place)
Bruce Titus Chevrolet & Stadium Thriftway
Former USTs

N
0 50 100
Feet

LEGEND

- Existing Monitoring Well
- Sanitary Sewer Line
- Storm Sewer Line

PCE: Tetrachloroethene
TCE: Trichloroethene
DCE: cis-1,2-Dichloroethene
VC: Vinyl Chloride
CT: Carbon Tetrachloride

Notes:
1) All concentrations are in µg/L.
2) Red value indicates a detection exceeding the MTCA screening level.

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Groundwater Quality Data May 2009

Former Walker Chevrolet Property
Tacoma, Washington

DATE: July 2009	PROJECT NO. 080190
DESIGNED BY: DAH	
DRAWN BY: SCC	FIGURE NO. 7
REVISED BY: SCC	

Q:_GeoTech\080190 Stadium Thriftway\2009-02\080190-04

ATTACHMENT A

Boring Logs

Coarse-Grained Soils - More than 50%[1] Retained on No. 200 Sieve	Gravels - More than 50%[1] of Coarse Fraction Retained on No. 4 Sieve	≤5% Fines[5]	GW	Well-graded gravel and gravel with sand, little to no fines
			GP	Poorly-graded gravel and gravel with sand, little to no fines
		≥15% Fines[5]	GM	Silty gravel and silty gravel with sand
			GC	Clayey gravel and clayey gravel with sand
	Sands - 50%[1] or More of Coarse Fraction Passes No. 4 Sieve	≤5% Fines[5]	SW	Well-graded sand and sand with gravel, little to no fines
			SP	Poorly-graded sand and sand with gravel, little to no fines
		≥15% Fines[5]	SM	Silty sand and silty sand with gravel
			SC	Clayey sand and clayey sand with gravel
Fine-Grained Soils - 50%[1] or More Passes No. 200 Sieve	Silts and Clays Liquid Limit Less than 50		ML	Silt, sandy silt, gravelly silt, silt with sand or gravel
			CL	Clay of low to medium plasticity; silty, sandy, or gravelly clay, lean clay
			OL	Organic clay or silt of low plasticity
	Silts and Clays Liquid Limit 50 or More		MH	Elastic silt, clayey silt, silt with micaceous or diatomaceous fine sand or silt
			CH	Clay of high plasticity, sandy or gravelly clay, fat clay with sand or gravel
			OH	Organic clay or silt of medium to high plasticity
Highly Organic Soils			PT	Peat, muck and other highly organic soils

Terms Describing Relative Density and Consistency

Coarse-Grained Soils	Density	SPT[2] blows/foot
	Very Loose	0 to 4
	Loose	4 to 10
	Medium Dense	10 to 30
	Dense	30 to 50
	Very Dense	>50

Fine-Grained Soils	Consistency	SPT[2] blows/foot
	Very Soft	0 to 2
	Soft	2 to 4
	Medium Stiff	4 to 8
	Stiff	8 to 15
	Very Stiff	15 to 30
	Hard	>30

Test Symbols

G = Grain Size
M = Moisture Content
A = Atterberg Limits
C = Chemical
DD = Dry Density
K = Permeability

Component Definitions

Descriptive Term	Size Range and Sieve Number
Boulders	Larger than 12"
Cobbles	3" to 12"
Gravel	3" to No. 4 (4.75 mm)
Coarse Gravel	3" to 3/4"
Fine Gravel	3/4" to No. 4 (4.75 mm)
Sand	No. 4 (4.75 mm) to No. 200 (0.075 mm)
Coarse Sand	No. 4 (4.75 mm) to No. 10 (2.00 mm)
Medium Sand	No. 10 (2.00 mm) to No. 40 (0.425 mm)
Fine Sand	No. 40 (0.425 mm) to No. 200 (0.075 mm)
Silt and Clay	Smaller than No. 200 (0.075 mm)

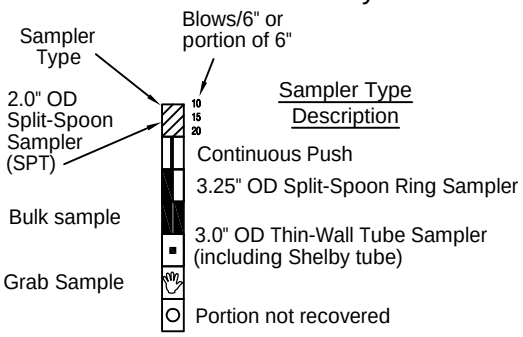
[3] Estimated Percentage

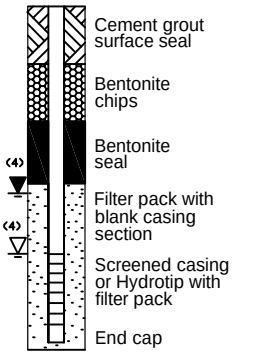
Percentage by Weight	Modifier
<5	Trace
5 to 15	Slightly (sandy, silty, clayey, gravelly)
15 to 30	Sandy, silty, clayey, gravelly)
30 to 49	Very (sandy, silty, clayey, gravelly)

Moisture Content

Dry - Absence of moisture, dusty, dry to the touch
Slightly Moist - Perceptible moisture
Moist - Damp but no visible water
Very Moist - Water visible but not free draining
Wet - Visible free water, usually from below water table

Symbols





(1) Percentage by dry weight
(2) (SPT) Standard Penetration Test (ASTM D-1586)
(3) In General Accordance with Standard Practice for Description and Identification of Soils (ASTM D-2488)
(4) Depth of groundwater — ATD = At time of drilling; Static water level (date)
(5) Combined USCS symbols used for fines between 5% and 15% as estimated in General Accordance with Standard Practice for Description and Identification of Soils (ASTM D-2488)

Classifications of soils in this report are based on visual field and/or laboratory observations, which include density/consistency, moisture condition, grain size, and plasticity estimates and should not be construed to imply field or laboratory testing unless presented herein. Visual-manual and/or laboratory classification methods of ASTM D-2487 and D-2488 were used as an identification guide for the Unified Soil Classification System.

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Exploration Log Key

DATE:
DESIGNED BY:
DRAWN BY:
REVISED BY:

PROJECT NO.

FIGURE NO.
A-1

Q:_ACAD Standards\Standard Details\Exploration Log Key A1.dwg

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Monitoring Well Construction Log

Project Number	Well Number	Sheet
080190	MW-10	1 of 2

Project Name	Stadium Thriftway	Ground Surface Elev	275
Location	Tacoma, WA	Top of Casing Elev.	274.45
Driller/Method	Boart Longyear / Spider Sonic	Depth to Water	Dry - 5/11/2009
Sampling Method	Continuous Core	Start/Finish Date	5/7/2009

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1 274	Flushmount monument, lockable thermos cap						Blacktop and concrete.	1
2 273							Medium dense, wet, dark brown, slightly silty, very gravelly SAND (SP); fine to coarse sand; fine to coarse gravel, rounded.	2
3 272								3
4 271							Medium dense, mosit, gray purple, silty, very gravelly SAND (SM); fine to coarse sand; fine to coarse gravel, subrounded.	4
5 270								5
6 269							Dry to slightly moist, brown to dark brown.	6
7 268							Loose, moist, dark brown, slightly silty, gravelly SAND (SP); predominantly medium to coarse sand; fine gravel, subrounded.	7
8 267								8
9 266							Medium dense, dry to slightly moist, fine to coarse gravel.	9
10 265							Very dense, dry, gray purple boulder.	10
11 264								11
12 263							Medium dense, slightlymoist, yellow-red to dark brown, gravelly, very silty SAND (SM); fine to coarse sand; fine to coarse gravel, subrounded.	12
13 262								13
14 261							Very stiff, dry to slightly moist, brown, gravelly, very sandy SILT (ML); fine to coarse sand; fine to coarse gravel, subrounded.	14
15 260	Quickrite portland cement, 0'-41'							15
16 259							Medium dense, slightlymoist, dark brown, silty, very gravelly SAND (SP); fine to coarse sand; fine to coarse gravel, subrounded.	16
17 258								17
18 257								18
19 256							Medium dense, slightly moist, dark brown, slightly silty, very gravelly SAND (SP); predominantly medium to coarse sand; fine to coarse gravel, subrounded.	19
20 255								20
21 254							Dense, dry to slightly moist, yellow-red to dark brown, silty, sandy GRAVEL (GM); fine to coarse sand; fine to coarse gravel, subrounded.	21
22 253								22
23 252							Medium dense, dry to slightly moist, yellow-red to dark brown, slightly silty, gravelly to very gravelly SAND (SP); predominantly medium to coarse sand; fine to coarse gravel, subrounded, increasing gravel with depth.	23
24 251								24
25 250	2" diameter, schedule 40 PVC, threaded connections, 0'-60'							25
26 249								26
27 248							Medium dense, dry to slightly moist, yellow-red to dark brown, silty, very gravelly SAND (SM); fine to coarse sand; fine gravel, subangular to subrounded.	27
28 247								28
29 246							Gradational decrease in silt. Becomes slightly silty, very gravelly SAND (SP).	29
30 245							Loose to medium dense, gravelly.	30
31 244								31
32 243								32
33 242								33
34 241							Medium dense, slightly moist, yellow-red, silty, very gravelly SAND (SM); fine to coarse sand; fine to coarse gravel, subrounded.	34
35 240								35
36 239							Loose, very silty, no gravel.	36
37 238							Medium dense, red-brown, gravelly.	37
38 237								38
39 236							Loose, slightly moist, yellow-red, slightly silty SAND (SP), trace gravel; perdominantly medium sand.	39
40 235								40
41 234							Medium dense to dense, gravelly; fine to coarse gravel, subrounded.	41
42 233								42
43 232								43
44 231								44
45 230	Hydrated bentonite chips, 41'-56'11"						Slightly gravelly; fine gravel.	45
46 229								46
47 228							Gravelly lense.	47
48 227								48
49 226							Gravelly lense.	49

Sampler Type:
- ◯ No Recovery
- ▌▌ Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- ▼ Static Water Level
- ▽ Water Level (ATD)

Logged by: JMS

Approved by:

Figure No. A -

MONITORING WELL_STADIUM THRIFTWAY.GPJ June 1, 2009

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Monitoring Well Construction Log

Project Number	Well Number	Sheet
080190	MW-10	2 of 2

Project Name	Stadium Thriftway	Ground Surface Elev	275
Location	Tacoma, WA	Top of Casing Elev.	274.45
Driller/Method	Boart Longyear / Spider Sonic	Depth to Water	Dry - 5/11/2009
Sampling Method	Continuous Core	Start/Finish Date	5/7/2009

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
51–224	Hydrated bentonite chips, 41'-56'11"						Loose, moist. perdominantly medium to coarse sand.	51
52–223								52
53–222								53
54–221								54
55–220	▽ 5/7/2009						Medium dense, wet, trace gravel; predominantly medium sand; fine gravel.	55
56–219								56
57–218							Red-brown with black staining, slightly gravelly.	57
58–217	10/20 sand filter pack, 56'11"-70'							58
59–216								59
60–215							Black, fine to medium sand.	60
61–214							Loose to medium dense, very moist to wet, brown SAND (SP); no silt, no gravel.	61
62–213								62
63–212								63
64–211	2" diameter, 10-slot, schedule 40 PVC screen, 60'-70'							64
65–210								65
66–209								66
67–208								67
68–207								68
69–206							Medium dense, wet, red-brown, slightly clayey; fine to medium sand.	69
70–205	Threaded PVC endcap							70
71–204							Medium dense, wet, red-brown, slightly gravelly, clayey SAND (SC); predominantly fine to medium sand; fine gravel.	71
72–203	Natural backfill, 70'-75'							72
73–202							Medium dense, wet, dark brown, silty, gravelly SAND (SM); fine to coarse sand; fine gravel to cobbles, subrounded.	73
74–201								74
75–200							Medium dense, wet, dark brown to gray, slightly silty, very sandy GRAVEL (GP); fine to coarse sand; fine to coarse gravel, subrounded.	75
76–199							Boring terminated 75 ft BGS.	76
77–198							Depth to water was 55 ft BGS ATD. Well was dry on 5/11/2009.	77
78–197								78
79–196								79
80–195								80
81–194								81
82–193								82
83–192								83
84–191								84
85–190								85
86–189								86
87–188								87
88–187								88
89–186								89
90–185								90
91–184								91
92–183								92
93–182								93
94–181								94
95–180								95
96–179								96
97–178								97
98–177								98
99–176								99

Sampler Type:
- ◯ No Recovery
- ▌▌ Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- ▼ Static Water Level
- ▽ Water Level (ATD)

Logged by: JMS

Approved by:

Figure No. A -

MONITORING WELL_STADIUM THRIFTWAY.GPJ June 1, 2009

Aspect consulting
earth + water

Monitoring Well Construction Log

Project Number	Well Number	Sheet
080190	MW-11	1 of 2

Project Name	Stadium Thriftway	Ground Surface Elev	274
Location	Tacoma, WA	Top of Casing Elev.	273.52
Driller/Method	Boart Longyear / Spider Sonic	Depth to Water	52.20 - 5/12/2009
Sampling Method	Continuous Core	Start/Finish Date	5/8/2009

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1 273	Flushmount monument, lockable thermos cap, concrete seal 0'-1'						Concrete.	
2 272							Wet, light brown, silty, very gravelly SAND (SM); fine to coarse gravel, subround to subangular.	1
3 271								2
4 270								3
5 269							Slightly moist, very silty.	4
6 268							Wet, grades to gravelly, very silty SAND (SM); fine to coarse sand.	5
7 267							Very dense, very silty, very sandy GRAVEL (GM); cobbles.	6
8 266								7
9 265								8
10 264	2" diameter, schedule 40 PVC, threaded connections, 0'-53'						Slightly moist, brown, silty, sandy GRAVEL (GM); fine to coarse sand; fine to coarse gravel.	9
11 263								10
12 262							Grades to brown-gray.	11
13 261								12
14 260							Gray, very silty.	13
15 259							Very moist, brown, silty, very sandy GRAVEL (GM).	14
16 258							Very hard, very moist, dark gray, gravelly, very silty SAND (SM) with sandy silt interbeds	15
17 257								16
18 256								17
19 255								18
20 254	Hydrated bentonite chips, 1'-49'11"						Dry, gray, silty, very sandy GRAVELLY (GM); fine to coarse sand; fine to coarse gravel.	19
21 253								20
22 252								21
23 251							Brown.	22
24 250							Dry, brown, trace to slightly silty, very sandy GRAVEL (GP).	23
25 249							Gray, sandy.	24
26 248								25
27 247								26
28 246							Moist, gray, sandy, very silty GRAVEL (GM).	27
29 245							Brown, silty, very sandy.	28
30 244								29
31 243							Very moist, red-brown to dark brown, slightly gravelly, very silty SAND (SM).	30
32 242								31
33 241							Trace gravel.	32
34 240								33
35 239								34
36 238							Very moist, red-brown to dark brown, slightly gravelly, slightly silty SAND (SM).	35
37 237							Interbedded red-brown, very silty SAND and gray, very sandy SILT (SM/ML)	36
38 236								37
39 235								38
40 234							Very moist, red-brown, slightly silty to silty SAND (SM), trace gravel; fine to medium sand, fine gravel.	39
41 233								40
42 232								41
43 231							Very moist, redish brown, slightly silty, gravelly SAND with interbeds of silty to very silty SAND (SP-SM). Sand is fine to medium.	42
44 230								43
45 229								44
46 228								45
47 227							Brown gray, silty SAND interbedded with sandy SILT (SM-ML).	46
48 226							Dark brown, predominately medium sand.	47
49 225	▽ 5/8/2009							48
								49

Sampler Type:
- ◯ No Recovery
- ▌▌ Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- ▼ Static Water Level
- ▽ Water Level (ATD)

Logged by: JTL

Approved by:

Figure No. A -

MONITORING WELL STADIUM THRIFTWAY.GPJ June 1, 2009

Aspect consulting
earth + water

Monitoring Well Construction Log

Project Number	Well Number	Sheet
080190	MW-11	2 of 2

Project Name	Stadium Thriftway	Ground Surface Elev	274
Location	Tacoma, WA	Top of Casing Elev.	273.52
Driller/Method	Boart Longyear / Spider Sonic	Depth to Water	52.20 - 5/12/2009
Sampling Method	Continuous Core	Start/Finish Date	5/8/2009

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
51–223	10/20 sand filter pack, 49'11"-63'						Wet.	51
52–222	▼ 5/12/2009							52
53–221							Gravelly.	53
54–220							Trace gravel to slightly gravelly.	54
55–219	2" diameter, 10-slot, schedule 40 PVC screen, 53'-63'						Wet, red-brown, interbedded silty SAND and slightly silty SAND (SM).	55
56–218								56
57–217								57
58–216								58
59–215								59
60–214							Wet, brown, silty SAND (SM); fine sand.	60
61–213								61
62–212							Wet, brown, slightly silty, gravelly SAND (SP); fine to coarse sand.	62
63–211	Threaded PVC endcap						Slightly moist, gray, very sandy, very silty GRAVEL (GM).	63
64–210								64
65–209							Moist, brown.	65
66–208							Slightly moist, light brown, sandy.	66
67–207								67
68–206								68
69–205	Natural backfill, 63'-70'						Grades to slightly moist, gray, slightly sandy, gravelly SILT (ML); with wood.	69
70–204							Boring terminated 70 ft BGS. Depth to water was 52.20 ft BGS on 5/12/2009.	70
71–203								71
72–202								72
73–201								73
74–200								74
75–199								75
76–198								76
77–197								77
78–196								78
79–195								79
80–194								80
81–193								81
82–192								82
83–191								83
84–190								84
85–189								85
86–188								86
87–187								87
88–186								88
89–185								89
90–184								90
91–183								91
92–182								92
93–181								93
94–180								94
95–179								95
96–178								96
97–177								97
98–176								98
99–175								99

Sampler Type:
- ◯ No Recovery
- ▌▌ Continuous Core

PID - Photoionization Detector (Headspace Measurement)

▼ Static Water Level

▽ Water Level (ATD)

Logged by: JTL

Approved by:

Figure No. A -

MONITORING WELL STADIUM THRIFTWAY.GPJ June 1, 2009

Aspect consulting
earth + water

Monitoring Well Construction Log

Project Number	Well Number	Sheet
080190	MW-8D	1 of 3

Project Name	Stadium Thriftway	Ground Surface Elev	273.5
Location	Tacoma, WA	Top of Casing Elev.	273.11
Driller/Method	Boart Longyear / Spider Sonic	Depth to Water	112.56 - 5/11/2009
Sampling Method	Continuous Core	Start/Finish Date	5/4/2009-5/6/2009

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1 – 273	Flushmount monument, lockable thermos cap, concrete seal 0'-1'						Blacktop and concrete.	1
2 – 272							Vacuumed to 3'.	2
3 – 271								3
4 – 270							Very hard, slightly moist, light brown, slightly sandy, gravelly SILT (ML); fine sand; coarse to fine gravel, subrounded.	4
5 – 269								5
6 – 268								6
7 – 267								7
8 – 266								8
9 – 265							Grades to sandy.	9
10 – 264								10
11 – 263	2" diameter, schedule 40 PVC, threaded connections, 0'-96'							11
12 – 262							Very hard, brown, slightly gravelly, silty SAND (SM); fine gravel, rounded.	12
13 – 261								13
14 – 260								14
15 – 259								15
16 – 258								16
17 – 257								17
18 – 256								18
19 – 255								19
20 – 254	Hydrated bentonite chips, 1'-92'							20
21 – 253								21
22 – 252							Gravelly.	22
23 – 251								23
24 – 250								24
25 – 249							Slightly gravelly.	25
26 – 248								26
27 – 247								27
28 – 246								28
29 – 245								29
30 – 244							Hard, brown, slightly gravelly, very sandy SILT (ML); fine gravel, rounded.	30
31 – 243								31
32 – 242								32
33 – 241								33
34 – 240							Hard, brown, slightly gravelly, very silty SAND (SM); fine gravel, rounded.	34
35 – 239								35
36 – 238								36
37 – 237								37
38 – 236							Moist, red-brown, slightly silty SAND (SP); medium sand.	38
39 – 235								39
40 – 234							Trace gravel.	40
41 – 233								41
42 – 232								42
43 – 231								43
44 – 230								44
45 – 229								45
46 – 228								46
47 – 227								47
48 – 226								48
49 – 225								49
224								

Sampler Type:
- ◯ No Recovery
- ▌▌ Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- ▼ Static Water Level
- ▽ Water Level (ATD)

Logged by: DFR

Approved by:

Figure No. A -

MONITORING WELL_STADIUM THRIFTWAY.GPJ June 1, 2009

Aspect consulting
earth + water

Monitoring Well Construction Log

Project Number	Well Number	Sheet
080190	MW-8D	2 of 3

Project Name	Stadium Thriftway	Ground Surface Elev	273.5
Location	Tacoma, WA	Top of Casing Elev.	273.11
Driller/Method	Boart Longyear / Spider Sonic	Depth to Water	112.56 - 5/11/2009
Sampling Method	Continuous Core	Start/Finish Date	5/4/2009-5/6/2009

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
51 – 223								51
52 – 222								52
53 – 221								53
54 – 220								54
55 – 219	▽ 5/4/2009						Wet.	55
56 – 218								56
57 – 217								57
58 – 216								58
59 – 215								59
60 – 214								60
61 – 213								61
62 – 212								62
63 – 211								63
64 – 210								64
65 – 209	10/20 sand filter pack, 92'-120'						Brown.	65
66 – 208								66
67 – 207							Very hard, moist, brown, sandy, silty GRAVEL (GM); non-plastic.	67
68 – 206								68
69 – 205								69
70 – 204								70
71 – 203								71
72 – 202								72
73 – 201								73
74 – 200							Brown, slightly gravelly, very silty SAND (SM); non-plastic.	74
75 – 199								75
76 – 198								76
77 – 197								77
78 – 196							Dark blue, slightly sandy SILT (ML); trace gravel.	78
79 – 195								79
80 – 194								80
81 – 193								81
82 – 192								82
83 – 191							Dry, gray, silty, very gravelly SAND (SM); fine sand.	83
84 – 190								84
85 – 189								85
86 – 188								86
87 – 187							Trace cobbles, subrounded.	87
88 – 186								88
89 – 185								89
90 – 184								90
91 – 183								91
92 – 182								92
93 – 181	2" diameter, 10-slot, schedule 40 PVC screen, 96'-106'						Very hard, dry, blue gray, sandy, very silty GRAVEL (GM).	93
94 – 180								94
95 – 179								95
96 – 178								96
97 – 177								97
98 – 176							Loose, slightly moist, brown, gravelly, very silty SAND (SM).	98
99 – 175								99
174								

Sampler Type:
- ◯ No Recovery
- ▌▌ Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- ▼ Static Water Level
- ▽ Water Level (ATD)

Logged by: DFR

Approved by:

Figure No. A -

MONITORING WELL_STADIUM THRIFTWAY.GPJ June 1, 2009

Aspect consulting
earth + water

Monitoring Well Construction Log

Project Number	Well Number	Sheet
080190	MW-8D	3 of 3

Project Name	Stadium Thriftway	Ground Surface Elev	273.5
Location	Tacoma, WA	Top of Casing Elev.	273.11
Driller/Method	Boart Longyear / Spider Sonic	Depth to Water	112.56 - 5/11/2009
Sampling Method	Continuous Core	Start/Finish Date	5/4/2009-5/6/2009

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
101 (173)								101
102 (172)							Hard, dry, dark blue gray, gravelly, sandy SILT (ML).	102
103 (171)								103
104 (170)								104
105 (169)								105
106 (168)							Hard, dry, light gray, silty, very gravelly SAND (SM); fine sand; fine to coarse gravel.	106
107 (167)								107
108 (166)								108
109 (165)								109
110 (164)	▽							110
111 (163)								111
112 (162)	▼ 5/11/2009						Loose, wet, brown, slightly silty SAND (SP); fine sand.	112
113 (161)								113
114 (160)								114
115 (159)								115
116 (158)	Threaded PVC endcap						Hard, dry, light gray, silty, very gravelly SAND (SM); fine sand.	116
117 (157)								117
118 (156)								118
119 (155)								119
120 (154)							Boring terminated 120 ft BGS. Depth to perched water was 55 ft BGS ATD. Depth to water table at 112.56 ft BGS on 5/11/2009.	120
121 (153)								121
122 (152)								122
123 (151)								123
124 (150)								124
125 (149)								125
126 (148)								126
127 (147)								127
128 (146)								128
129 (145)								129
130 (144)								130
131 (143)								131
132 (142)								132
133 (141)								133
134 (140)								134
135 (139)								135
136 (138)								136
137 (137)								137
138 (136)								138
139 (135)								139
140 (134)								140
141 (133)								141
142 (132)								142
143 (131)								143
144 (130)								144
145 (129)								145
146 (128)								146
147 (127)								147
148 (126)								148
149 (125)								149
(124)								

Sampler Type:
○ No Recovery
▌▌ Continuous Core

PID - Photoionization Detector (Headspace Measurement)
▼ Static Water Level
▽ Water Level (ATD)

Logged by: DFR
Approved by:
Figure No. A -

MONITORING WELL_STADIUM THRIFTWAY.GPJ June 1, 2009

Aspect consulting
earth + water

Monitoring Well Construction Log

Project Number	Well Number	Sheet
080190	MW-9	1 of 2

Project Name	Stadium Thriftway	Ground Surface Elev	274.5
Location	Tacoma, WA	Top of Casing Elev.	273.78
Driller/Method	Boart Longyear / Spider Sonic	Depth to Water	Dry - 5/11/2009
Sampling Method	Continuous Core	Start/Finish Date	5/5/2009

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
1 (274)	Flushmount monument, lockable thermos cap						Blacktop and concrete. Vacuumed to 5'.	1
5 (270)							Slightly moist, gray blue, gravelly, sandy SILT (ML).	5
10 (265)	Quickrite portland cement, 0'-30'						Dry, lightly brown, very gravelly.	10
11 (264)							Brown, slightly moist, gravelly, silty SAND (SM).	11
16 (259)							Dry, light gray.	16
20 (255)	2" diameter, schedule 40 PVC, threaded connections, 0'-60'							20
22 (253)							Very dense, slightly moist, gray blue.	22
26 (249)							Dry, dark gray blue, sandy SILT (ML), trace gravel.	26
28 (247)							Slightly moist, brown, gravelly, very silty SAND (SM); fine to medium sand, predominantly fine.	28
32 (243)							Grades to trace gravel.	32
34 (241)							Moist.	34
35 (240)	Hydrated bentonite chips, 30'-57'							35
38 (237)							Very gravelly.	38
40 (235)							Trace gravel.	40
42 (233)							Loose, moist, dark brown-red SAND (SP), trace gravel; fine to medium sand, predominantly fine; fine gravel, subrounded.	42
47 (228)							Grades to slightly silty.	47
49 (226)								49

Sampler Type:
- No Recovery
- Continuous Core

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: DFR

Approved by:

Figure No. A -

MONITORING WELL_STADIUM THRIFTWAY.GPJ June 1, 2009

Aspect consulting
earth + water

Monitoring Well Construction Log

Project Number	Well Number	Sheet
080190	MW-9	2 of 2

Project Name	Stadium Thriftway	Ground Surface Elev	274.5
Location	Tacoma, WA	Top of Casing Elev.	273.78
Driller/Method	Boart Longyear / Spider Sonic	Depth to Water	Dry - 5/11/2009
Sampling Method	Continuous Core	Start/Finish Date	5/5/2009

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Blows/ 6"	Material Type	Description	Depth (ft)
51 – 224	Hydrated bentonite chips, 30'-57'						Grades to gravelly.	51
52 – 223								52
53 – 222								53
54 – 221	▽ 5/5/2009						Wet.	54
55 – 220								55
56 – 219								56
57 – 218							No gravel.	57
58 – 217	10/20 sand filter pack, 57'-70'							58
59 – 216								59
60 – 215								60
61 – 214								61
62 – 213								62
63 – 212								63
64 – 211	2" diameter, 10-slot, schedule 40 PVC screen, 60'-70'							64
65 – 210								65
66 – 209								66
67 – 208								67
68 – 207								68
69 – 206								69
70 – 205	Threaded PVC endcap							70
71 – 204							Boring terminted 70' BGS. Depth to water was 54 ft BGS ATD. Well was dry on 5/11/2009.	71
72 – 203								72
73 – 202								73
74 – 201								74
75 – 200								75
76 – 199								76
77 – 198								77
78 – 197								78
79 – 196								79
80 – 195								80
81 – 194								81
82 – 193								82
83 – 192								83
84 – 191								84
85 – 190								85
86 – 189								86
87 – 188								87
88 – 187								88
89 – 186								89
90 – 185								90
91 – 184								91
92 – 183								92
93 – 182								93
94 – 181								94
95 – 180								95
96 – 179								96
97 – 178								97
98 – 177								98
99 – 176								99
175								

Sampler Type:
◯ No Recovery
▌▌ Continuous Core

PID - Photoionization Detector (Headspace Measurement)
▼ Static Water Level
▽ Water Level (ATD)

Logged by: DFR
Approved by:
Figure No. A -

MONITORING WELL_STADIUM THRIFTWAY.GPJ June 1, 2009

ATTACHMENT B

Laboratory Certificates of Analysis

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
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May 19, 2009

Joe Morrice, Project Manager
Aspect Consulting
401 2nd Ave S, Suite 201
Seattle, WA 98104

Dear Mr. Morrice:

Included are the results from the testing of material submitted on May 12, 2009 from the 080190 Stadium Property, F&BI 905099 project. There are 15 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
ASP0519R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on May 12, 2009 by Friedman & Bruya, Inc. from the Aspect Consulting 080190 Stadium Property, F&BI 905099 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Aspect Consulting
905099-01	MW-8D-comp
905099-02	MW-9-comp
905099-03	MW-10-comp
905099-04	MW-11-comp
905099-05	MW-8D-051109
905099-06	MW-1-051109
905099-07	MW-7-051109
905099-08	MW-5-051109

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW-8D-051109	Client:	Aspect Consulting
Date Received:	05/12/09	Project:	080190 Stadium Property, F&BI 905099
Date Extracted:	05/13/09	Lab ID:	905099-05
Date Analyzed:	05/13/09	Data File:	051311.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MB

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	63	127
Toluene-d8	100	60	129
4-Bromofluorobenzene	94	51	145

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<1	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	11	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	1.9	tert-Butylbenzene	<1
Benzene	<1	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<1
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW-1-051109	Client:	Aspect Consulting
Date Received:	05/12/09	Project:	080190 Stadium Property, F&BI 905099
Date Extracted:	05/13/09	Lab ID:	905099-06
Date Analyzed:	05/13/09	Data File:	051312.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MB

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	63	127
Toluene-d8	104	60	129
4-Bromofluorobenzene	98	51	145

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<1	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<1	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<1
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW-7-051109	Client:	Aspect Consulting
Date Received:	05/12/09	Project:	080190 Stadium Property, F&BI 905099
Date Extracted:	05/13/09	Lab ID:	905099-07
Date Analyzed:	05/13/09	Data File:	051313.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MB

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	63	127
Toluene-d8	103	60	129
4-Bromofluorobenzene	99	51	145

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<1	Tetrachloroethene	1.1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	2.0	tert-Butylbenzene	<1
Benzene	<1	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<1
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW-5-051109	Client:	Aspect Consulting
Date Received:	05/12/09	Project:	080190 Stadium Property, F&BI 905099
Date Extracted:	05/13/09	Lab ID:	905099-08
Date Analyzed:	05/13/09	Data File:	051314.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MB

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	63	127
Toluene-d8	106	60	129
4-Bromofluorobenzene	98	51	145

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<1	Tetrachloroethene	17
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	44	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<1	1,2,4-Trimethylbenzene	<1
Trichloroethene	1.1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<1
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	Aspect Consulting
Date Received:	Not Applicable	Project:	080190 Stadium Property, F&BI 905099
Date Extracted:	05/13/09	Lab ID:	090633 mb
Date Analyzed:	05/13/09	Data File:	051305.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MB

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	63	127
Toluene-d8	103	60	129
4-Bromofluorobenzene	98	51	145

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<1	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<1	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<1
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW-8D-comp	Client:	Aspect Consulting
Date Received:	05/12/09	Project:	080190 Stadium Property, F&BI 905099
Date Extracted:	05/12/09	Lab ID:	905099-01
Date Analyzed:	05/12/09	Data File:	051209.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	MB

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	90	42	152
Toluene-d8	86	36	149
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.05	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<0.5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Methylene chloride	<0.5	o-Xylene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Styrene	<0.05
trans-1,2-Dichloroethene	<0.05	Isopropylbenzene	<0.05
1,1-Dichloroethane	<0.05	Bromoform	<0.05
2,2-Dichloropropane	<0.05	n-Propylbenzene	<0.05
cis-1,2-Dichloroethene	<0.05	Bromobenzene	<0.05
Chloroform	<0.05	1,3,5-Trimethylbenzene	<0.05
2-Butanone (MEK)	<0.5	1,1,2,2-Tetrachloroethane	<0.05
1,2-Dichloroethane (EDC)	<0.05	1,2,3-Trichloropropane	<0.05
1,1,1-Trichloroethane	<0.05	2-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	4-Chlorotoluene	<0.05
Carbon tetrachloride	<0.05	tert-Butylbenzene	<0.05
Benzene	<0.03	1,2,4-Trimethylbenzene	<0.05
Trichloroethene	<0.03	sec-Butylbenzene	<0.05
1,2-Dichloropropane	<0.05	p-Isopropyltoluene	<0.05
Bromodichloromethane	<0.05	1,3-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,4-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<0.5	1,2-Dichlorobenzene	<0.05
cis-1,3-Dichloropropene	<0.05	1,2-Dibromo-3-chloropropane	<0.05
Toluene	<0.05	1,2,4-Trichlorobenzene	<0.25
trans-1,3-Dichloropropene	<0.05	Hexachlorobutadiene	<0.25
1,1,2-Trichloroethane	<0.05	Naphthalene	<0.05
2-Hexanone	<0.5	1,2,3-Trichlorobenzene	<0.25

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW-9-comp	Client:	Aspect Consulting
Date Received:	05/12/09	Project:	080190 Stadium Property, F&BI 905099
Date Extracted:	05/12/09	Lab ID:	905099-02
Date Analyzed:	05/12/09	Data File:	051211.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	MB

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	44	42	152
Toluene-d8	43	36	149
4-Bromofluorobenzene	52	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.05	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<0.5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Methylene chloride	<0.5	o-Xylene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Styrene	<0.05
trans-1,2-Dichloroethene	<0.05	Isopropylbenzene	<0.05
1,1-Dichloroethane	<0.05	Bromoform	<0.05
2,2-Dichloropropane	<0.05	n-Propylbenzene	<0.05
cis-1,2-Dichloroethene	<0.05	Bromobenzene	<0.05
Chloroform	<0.05	1,3,5-Trimethylbenzene	<0.05
2-Butanone (MEK)	<0.5	1,1,2,2-Tetrachloroethane	<0.05
1,2-Dichloroethane (EDC)	<0.05	1,2,3-Trichloropropane	<0.05
1,1,1-Trichloroethane	<0.05	2-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	4-Chlorotoluene	<0.05
Carbon tetrachloride	<0.05	tert-Butylbenzene	<0.05
Benzene	<0.03	1,2,4-Trimethylbenzene	<0.05
Trichloroethene	<0.03	sec-Butylbenzene	<0.05
1,2-Dichloropropane	<0.05	p-Isopropyltoluene	<0.05
Bromodichloromethane	<0.05	1,3-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,4-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<0.5	1,2-Dichlorobenzene	<0.05
cis-1,3-Dichloropropene	<0.05	1,2-Dibromo-3-chloropropane	<0.05
Toluene	<0.05	1,2,4-Trichlorobenzene	<0.25
trans-1,3-Dichloropropene	<0.05	Hexachlorobutadiene	<0.25
1,1,2-Trichloroethane	<0.05	Naphthalene	<0.05
2-Hexanone	<0.5	1,2,3-Trichlorobenzene	<0.25

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW-10-comp	Client:	Aspect Consulting
Date Received:	05/12/09	Project:	080190 Stadium Property, F&BI 905099
Date Extracted:	05/12/09	Lab ID:	905099-03
Date Analyzed:	05/12/09	Data File:	051212.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	MB

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	134	42	152
Toluene-d8	130	36	149
4-Bromofluorobenzene	140	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.05	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<0.5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Methylene chloride	<0.5	o-Xylene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Styrene	<0.05
trans-1,2-Dichloroethene	<0.05	Isopropylbenzene	<0.05
1,1-Dichloroethane	<0.05	Bromoform	<0.05
2,2-Dichloropropane	<0.05	n-Propylbenzene	<0.05
cis-1,2-Dichloroethene	<0.05	Bromobenzene	<0.05
Chloroform	<0.05	1,3,5-Trimethylbenzene	<0.05
2-Butanone (MEK)	<0.5	1,1,2,2-Tetrachloroethane	<0.05
1,2-Dichloroethane (EDC)	<0.05	1,2,3-Trichloropropane	<0.05
1,1,1-Trichloroethane	<0.05	2-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	4-Chlorotoluene	<0.05
Carbon tetrachloride	<0.05	tert-Butylbenzene	<0.05
Benzene	<0.03	1,2,4-Trimethylbenzene	<0.05
Trichloroethene	<0.03	sec-Butylbenzene	<0.05
1,2-Dichloropropane	<0.05	p-Isopropyltoluene	<0.05
Bromodichloromethane	<0.05	1,3-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,4-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<0.5	1,2-Dichlorobenzene	<0.05
cis-1,3-Dichloropropene	<0.05	1,2-Dibromo-3-chloropropane	<0.05
Toluene	<0.05	1,2,4-Trichlorobenzene	<0.25
trans-1,3-Dichloropropene	<0.05	Hexachlorobutadiene	<0.25
1,1,2-Trichloroethane	<0.05	Naphthalene	<0.05
2-Hexanone	<0.5	1,2,3-Trichlorobenzene	<0.25

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW-11-comp	Client:	Aspect Consulting
Date Received:	05/12/09	Project:	080190 Stadium Property, F&BI 905099
Date Extracted:	05/12/09	Lab ID:	905099-04
Date Analyzed:	05/12/09	Data File:	051213.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	MB

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	42	152
Toluene-d8	96	36	149
4-Bromofluorobenzene	108	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.05	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<0.5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Methylene chloride	<0.5	o-Xylene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Styrene	<0.05
trans-1,2-Dichloroethene	<0.05	Isopropylbenzene	<0.05
1,1-Dichloroethane	<0.05	Bromoform	<0.05
2,2-Dichloropropane	<0.05	n-Propylbenzene	<0.05
cis-1,2-Dichloroethene	<0.05	Bromobenzene	<0.05
Chloroform	<0.05	1,3,5-Trimethylbenzene	<0.05
2-Butanone (MEK)	<0.5	1,1,2,2-Tetrachloroethane	<0.05
1,2-Dichloroethane (EDC)	<0.05	1,2,3-Trichloropropane	<0.05
1,1,1-Trichloroethane	<0.05	2-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	4-Chlorotoluene	<0.05
Carbon tetrachloride	<0.05	tert-Butylbenzene	<0.05
Benzene	<0.03	1,2,4-Trimethylbenzene	<0.05
Trichloroethene	<0.03	sec-Butylbenzene	<0.05
1,2-Dichloropropane	<0.05	p-Isopropyltoluene	<0.05
Bromodichloromethane	<0.05	1,3-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,4-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<0.5	1,2-Dichlorobenzene	<0.05
cis-1,3-Dichloropropene	<0.05	1,2-Dibromo-3-chloropropane	<0.05
Toluene	<0.05	1,2,4-Trichlorobenzene	<0.25
trans-1,3-Dichloropropene	<0.05	Hexachlorobutadiene	<0.25
1,1,2-Trichloroethane	<0.05	Naphthalene	<0.05
2-Hexanone	<0.5	1,2,3-Trichlorobenzene	<0.25

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	Aspect Consulting
Date Received:	Not Applicable	Project:	080190 Stadium Property, F&BI 905099
Date Extracted:	05/12/09	Lab ID:	090632 mb
Date Analyzed:	05/12/09	Data File:	051205.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	MB

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	93	42	152
Toluene-d8	96	36	149
4-Bromofluorobenzene	118	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.05	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<0.5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Methylene chloride	<0.5	o-Xylene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Styrene	<0.05
trans-1,2-Dichloroethene	<0.05	Isopropylbenzene	<0.05
1,1-Dichloroethane	<0.05	Bromoform	<0.05
2,2-Dichloropropane	<0.05	n-Propylbenzene	<0.05
cis-1,2-Dichloroethene	<0.05	Bromobenzene	<0.05
Chloroform	<0.05	1,3,5-Trimethylbenzene	<0.05
2-Butanone (MEK)	<0.5	1,1,2,2-Tetrachloroethane	<0.05
1,2-Dichloroethane (EDC)	<0.05	1,2,3-Trichloropropane	<0.05
1,1,1-Trichloroethane	<0.05	2-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	4-Chlorotoluene	<0.05
Carbon tetrachloride	<0.05	tert-Butylbenzene	<0.05
Benzene	<0.03	1,2,4-Trimethylbenzene	<0.05
Trichloroethene	<0.03	sec-Butylbenzene	<0.05
1,2-Dichloropropane	<0.05	p-Isopropyltoluene	<0.05
Bromodichloromethane	<0.05	1,3-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,4-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<0.5	1,2-Dichlorobenzene	<0.05
cis-1,3-Dichloropropene	<0.05	1,2-Dibromo-3-chloropropane	<0.05
Toluene	<0.05	1,2,4-Trichlorobenzene	<0.25
trans-1,3-Dichloropropene	<0.05	Hexachlorobutadiene	<0.25
1,1,2-Trichloroethane	<0.05	Naphthalene	<0.05
2-Hexanone	<0.5	1,2,3-Trichlorobenzene	<0.25

Date of Report: 05/19/09
Date Received: 05/12/09
Project: 080190 Stadium Property, F&BI 905099

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	89	94	51-142	5
Chloromethane	ug/L (ppb)	50	101	96	65-134	5
Vinyl chloride	ug/L (ppb)	50	98	87	64-134	12
Bromomethane	ug/L (ppb)	50	99	89	66-137	11
Chloroethane	ug/L (ppb)	50	100	91	58-146	9
Trichlorofluoromethane	ug/L (ppb)	50	112	104	50-150	7
Acetone	ug/L (ppb)	50	96	91	60-155	5
1,1-Dichloroethene	ug/L (ppb)	50	105	97	70-132	8
Methylene chloride	ug/L (ppb)	50	106	99	70-124	7
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	120	111	80-127	8
trans-1,2-Dichloroethene	ug/L (ppb)	50	109	101	81-122	8
1,1-Dichloroethane	ug/L (ppb)	50	110	103	85-118	7
2,2-Dichloropropane	ug/L (ppb)	50	130	120	73-144	8
cis-1,2-Dichloroethene	ug/L (ppb)	50	113	107	82-122	5
Chloroform	ug/L (ppb)	50	106	100	84-122	6
2-Butanone (MEK)	ug/L (ppb)	50	96	85	58-145	12
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	111	105	82-127	6
1,1,1-Trichloroethane	ug/L (ppb)	50	119	112	85-130	6
1,1-Dichloropropene	ug/L (ppb)	50	121	113	82-123	7
Carbon tetrachloride	ug/L (ppb)	50	119	114	77-145	4
Benzene	ug/L (ppb)	50	103	97	79-125	6
Trichloroethene	ug/L (ppb)	50	112	107	84-119	5
1,2-Dichloropropane	ug/L (ppb)	50	111	106	82-122	5
Bromodichloromethane	ug/L (ppb)	50	111	107	81-133	4
Dibromomethane	ug/L (ppb)	50	111	105	82-125	6
4-Methyl-2-pentanone	ug/L (ppb)	50	98	91	70-140	7
cis-1,3-Dichloropropene	ug/L (ppb)	50	117	111	83-129	5
Toluene	ug/L (ppb)	50	107	103	81-123	4
trans-1,3-Dichloropropene	ug/L (ppb)	50	111	107	80-131	4
1,1,2-Trichloroethane	ug/L (ppb)	50	100	98	75-124	2
2-Hexanone	ug/L (ppb)	50	98	95	70-135	3
1,3-Dichloropropane	ug/L (ppb)	50	104	100	77-126	4
Tetrachloroethene	ug/L (ppb)	50	117	111	83-119	5
Dibromochloromethane	ug/L (ppb)	50	112	109	84-133	3
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	106	100	82-125	6
Chlorobenzene	ug/L (ppb)	50	106	101	85-121	5
Ethylbenzene	ug/L (ppb)	50	111	106	83-121	5
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	109	105	85-128	4
m,p-Xylene	ug/L (ppb)	100	112	107	82-122	5
o-Xylene	ug/L (ppb)	50	117	111	86-121	5
Styrene	ug/L (ppb)	50	113	108	85-127	5
Isopropylbenzene	ug/L (ppb)	50	116	111	87-122	4
Bromoform	ug/L (ppb)	50	113	112	78-129	1
n-Propylbenzene	ug/L (ppb)	50	109	104	76-127	5
Bromobenzene	ug/L (ppb)	50	106	102	86-117	4
1,3,5-Trimethylbenzene	ug/L (ppb)	50	113	107	80-126	5
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	90	87	66-126	3
1,2,3-Trichloropropane	ug/L (ppb)	50	92	89	67-124	3
2-Chlorotoluene	ug/L (ppb)	50	108	103	77-127	5
4-Chlorotoluene	ug/L (ppb)	50	109	104	78-128	5
tert-Butylbenzene	ug/L (ppb)	50	113	108	85-122	5
1,2,4-Trimethylbenzene	ug/L (ppb)	50	110	105	82-125	5
sec-Butylbenzene	ug/L (ppb)	50	113	108	80-125	5
p-Isopropyltoluene	ug/L (ppb)	50	119	113	82-127	5
1,3-Dichlorobenzene	ug/L (ppb)	50	106	101	85-119	5
1,4-Dichlorobenzene	ug/L (ppb)	50	100	95	84-121	5
1,2-Dichlorobenzene	ug/L (ppb)	50	106	100	85-116	6
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	105	98	57-141	7
1,2,4-Trichlorobenzene	ug/L (ppb)	50	113	105	79-128	7
Hexachlorobutadiene	ug/L (ppb)	50	124	115	81-130	8
Naphthalene	ug/L (ppb)	50	114	106	64-133	7
1,2,3-Trichlorobenzene	ug/L (ppb)	50	113	106	77-124	6

Date of Report: 05/19/09
Date Received: 05/12/09
Project: 080190 Stadium Property, F&BI 905099

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 905099-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	<0.5	<0.5	nm
Chloromethane	mg/kg (ppm)	<0.05	<0.05	nm
Vinyl chloride	mg/kg (ppm)	<0.05	<0.05	nm
Bromomethane	mg/kg (ppm)	<0.5	<0.5	nm
Chloroethane	mg/kg (ppm)	<0.5	<0.5	nm
Trichlorofluoromethane	mg/kg (ppm)	<0.5	<0.5	nm
Acetone	mg/kg (ppm)	<0.5	<0.5	nm
1,1-Dichloroethene	mg/kg (ppm)	<0.05	<0.05	nm
Methylene chloride	mg/kg (ppm)	<0.5	<0.5	nm
t-Butyl alcohol (TBA)	mg/kg (ppm)	<3	<3	nm
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	<0.05	<0.05	nm
trans-1,2-Dichloroethene	mg/kg (ppm)	<0.05	<0.05	nm
Diisopropyl ether (DIPE)	mg/kg (ppm)	<0.05	<0.05	nm
1,1-Dichloroethane	mg/kg (ppm)	<0.05	<0.05	nm
Ethyl t-butyl ether (ETBE)	mg/kg (ppm)	<0.05	<0.05	nm
2,2-Dichloropropane	mg/kg (ppm)	<0.05	<0.05	nm
cis-1,2-Dichloroethene	mg/kg (ppm)	<0.05	<0.05	nm
Chloroform	mg/kg (ppm)	<0.05	<0.05	nm
2-Butanone (MEK)	mg/kg (ppm)	<0.5	<0.5	nm
t-Amyl methyl ether (TAME)	mg/kg (ppm)	<0.05	<0.05	nm
1,2-Dichloroethane (EDC)	mg/kg (ppm)	<0.05	<0.05	nm
1,1,1-Trichloroethane	mg/kg (ppm)	<0.05	<0.05	nm
1,1-Dichloropropene	mg/kg (ppm)	<0.05	<0.05	nm
Carbon tetrachloride	mg/kg (ppm)	<0.05	<0.05	nm
Benzene	mg/kg (ppm)	<0.03	<0.03	nm
Trichloroethene	mg/kg (ppm)	<0.03	<0.03	nm
1,2-Dichloropropane	mg/kg (ppm)	<0.05	<0.05	nm
Bromodichloromethane	mg/kg (ppm)	<0.05	<0.05	nm
Dibromomethane	mg/kg (ppm)	<0.05	<0.05	nm
4-Methyl-2-pentanone	mg/kg (ppm)	<0.5	<0.5	nm
cis-1,3-Dichloropropene	mg/kg (ppm)	<0.05	<0.05	nm
Toluene	mg/kg (ppm)	<0.05	<0.05	nm
trans-1,3-Dichloropropene	mg/kg (ppm)	<0.05	<0.05	nm
1,1,2-Trichloroethane	mg/kg (ppm)	<0.05	<0.05	nm
2-Hexanone	mg/kg (ppm)	<0.5	<0.5	nm
1,3-Dichloropropane	mg/kg (ppm)	<0.05	<0.05	nm
Tetrachloroethene	mg/kg (ppm)	<0.025	<0.025	nm
Dibromochloromethane	mg/kg (ppm)	<0.05	<0.05	nm
1,2-Dibromoethane (EDB)	mg/kg (ppm)	<0.05	<0.05	nm
Chlorobenzene	mg/kg (ppm)	<0.05	<0.05	nm
Ethylbenzene	mg/kg (ppm)	<0.05	<0.05	nm
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	<0.05	<0.05	nm
m,p-Xylene	mg/kg (ppm)	<0.1	<0.1	nm
o-Xylene	mg/kg (ppm)	<0.05	<0.05	nm
Styrene	mg/kg (ppm)	<0.05	<0.05	nm
Isopropylbenzene	mg/kg (ppm)	<0.05	<0.05	nm
Bromoform	mg/kg (ppm)	<0.05	<0.05	nm
n-Propylbenzene	mg/kg (ppm)	<0.05	<0.05	nm
Bromobenzene	mg/kg (ppm)	<0.05	<0.05	nm
1,3,5-Trimethylbenzene	mg/kg (ppm)	<0.05	<0.05	nm
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	<0.05	<0.05	nm
1,2,3-Trichloropropane	mg/kg (ppm)	<0.05	<0.05	nm
2-Chlorotoluene	mg/kg (ppm)	<0.05	<0.05	nm
4-Chlorotoluene	mg/kg (ppm)	<0.05	<0.05	nm
tert-Butylbenzene	mg/kg (ppm)	<0.05	<0.05	nm
1,2,4-Trimethylbenzene	mg/kg (ppm)	<0.05	<0.05	nm
sec-Butylbenzene	mg/kg (ppm)	<0.05	<0.05	nm
p-Isopropyltoluene	mg/kg (ppm)	<0.05	<0.05	nm
1,3-Dichlorobenzene	mg/kg (ppm)	<0.05	<0.05	nm
1,4-Dichlorobenzene	mg/kg (ppm)	<0.05	<0.05	nm
1,2-Dichlorobenzene	mg/kg (ppm)	<0.05	<0.05	nm
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	<0.05	<0.05	nm
1,2,4-Trichlorobenzene	mg/kg (ppm)	<0.1	<0.1	nm
Hexachlorobutadiene	mg/kg (ppm)	<0.1	<0.1	nm
Naphthalene	mg/kg (ppm)	<0.05	<0.05	nm
1,2,3-Trichlorobenzene	mg/kg (ppm)	<0.1	<0.1	nm

Date of Report: 05/19/09
Date Received: 05/12/09
Project: 080190 Stadium Property, F&BI 905099

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	87	84	25-133	4
Chloromethane	mg/kg (ppm)	2.5	80	77	48-121	4
Vinyl chloride	mg/kg (ppm)	2.5	94	88	57-125	7
Bromomethane	mg/kg (ppm)	2.5	128	103	55-141	22 vo
Chloroethane	mg/kg (ppm)	2.5	205 vo	127	43-152	47 vo
Trichlorofluoromethane	mg/kg (ppm)	2.5	88	86	37-158	2
Acetone	mg/kg (ppm)	2.5	90	92	69-129	2
1,1-Dichloroethene	mg/kg (ppm)	2.5	93	97	60-123	4
Methylene chloride	mg/kg (ppm)	2.5	84	88	57-130	5
t-Butyl alcohol (TBA)	mg/kg (ppm)	12.5	96	103	70-121	7
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	102	99	82-112	3
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	102	95	78-118	7
Diisopropyl ether (DIPE)	mg/kg (ppm)	2.5	110	100	85-117	10
1,1-Dichloroethane	mg/kg (ppm)	2.5	101	99	81-116	2
Ethyl t-butyl ether (ETBE)	mg/kg (ppm)	2.5	111	107	84-117	4
2,2-Dichloropropane	mg/kg (ppm)	2.5	116	111	74-122	4
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	102	96	82-118	6
Chloroform	mg/kg (ppm)	2.5	105	101	80-117	4
2-Butanone (MEK)	mg/kg (ppm)	2.5	110	103	63-146	7
t-Amyl methyl ether (TAME)	mg/kg (ppm)	2.5	110	105	84-118	5
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	102	99	82-120	3
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	110	104	79-120	6
1,1-Dichloropropene	mg/kg (ppm)	2.5	103	99	76-122	4
Carbon tetrachloride	mg/kg (ppm)	2.5	99	93	70-125	6
Benzene	mg/kg (ppm)	2.5	97	95	80-112	2
Trichloroethene	mg/kg (ppm)	2.5	100	97	79-115	3
1,2-Dichloropropane	mg/kg (ppm)	2.5	104	100	84-119	4
Bromodichloromethane	mg/kg (ppm)	2.5	116	114	87-122	2
Dibromomethane	mg/kg (ppm)	2.5	106	103	87-118	3
4-Methyl-2-pentanone	mg/kg (ppm)	2.5	108	106	88-124	2
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	114	112	84-125	2
Toluene	mg/kg (ppm)	2.5	111	108	80-116	3
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	134 vo	129	84-129	4
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	119 vo	116	85-117	3
2-Hexanone	mg/kg (ppm)	2.5	127	125	88-129	2
1,3-Dichloropropane	mg/kg (ppm)	2.5	118	116	84-119	2
Tetrachloroethene	mg/kg (ppm)	2.5	109	104	79-119	5
Dibromochloromethane	mg/kg (ppm)	2.5	110	107	76-123	3
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	117	114	86-120	3
Chlorobenzene	mg/kg (ppm)	2.5	110	107	81-111	3
Ethylbenzene	mg/kg (ppm)	2.5	115	111	81-115	4
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	129 vo	124 vo	82-121	4
m,p-Xylene	mg/kg (ppm)	5	111	108	80-118	3
o-Xylene	mg/kg (ppm)	2.5	113	109	78-122	4
Styrene	mg/kg (ppm)	2.5	116	112	84-121	4
Isopropylbenzene	mg/kg (ppm)	2.5	114	109	79-124	4
Bromoform	mg/kg (ppm)	2.5	110	107	73-111	3
n-Propylbenzene	mg/kg (ppm)	2.5	120	118	80-123	2
Bromobenzene	mg/kg (ppm)	2.5	123 vo	121 vo	83-117	2
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	121	118	81-122	3
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	126 vo	125 vo	82-119	1
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	125 vo	123 vo	82-116	2
2-Chlorotoluene	mg/kg (ppm)	2.5	119	118	78-120	1
4-Chlorotoluene	mg/kg (ppm)	2.5	118	116	81-119	2
tert-Butylbenzene	mg/kg (ppm)	2.5	118	115	79-124	3
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	121	119	81-123	2
sec-Butylbenzene	mg/kg (ppm)	2.5	120	117	79-124	3
p-Isopropyltoluene	mg/kg (ppm)	2.5	122	118	82-125	3
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	113	110	80-116	3
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	110	109	59-133	1
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	113	110	82-116	3
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	118	113	74-126	4
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	116	109	73-124	6
Hexachlorobutadiene	mg/kg (ppm)	2.5	116	110	74-128	5
Naphthalene	mg/kg (ppm)	2.5	118	113	70-122	4
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	113	109	76-125	4

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - The analyte indicated was found in the method blank. The result should be considered an estimate.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - The sample was extracted outside of holding time. Results should be considered estimates.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The pattern of peaks present is not indicative of diesel.

y - The pattern of peaks present is not indicative of motor oil.

CCI Analytical Laboratories
8620 Holly Drive
Everett, WA 98208
Phone (425) 356-2600
(206) 292-9059 Sea[redacted]
(425) 356-2626 Fax
http://www.ccilabs.com

905099

Chain Of Custody/ Laboratory Analysis Request

CCI Job# (Laboratory Use Only) MG 5/12/09 .VS1/V2/CI2

Date ______ Page ______ Of ______

PROJECT ID: 080190 Stadium Property
REPORT TO COMPANY: Aspect Consulting LLC
PROJECT MANAGER: JOE MORRICE
ADDRESS: 401 2nd Ave S, Ste 201
Seattle WA 98104
PHONE: 206-838-6581 FAX:
P.O. NUMBER: E-MAIL: jmorrice@aspectconsulting.com
INVOICE TO COMPANY:
ATTENTION:
ADDRESS:

ANALYSIS REQUESTED / OTHER (Specify)

	SAMPLE I.D.	DATE	TIME	TYPE	LAB#ZD	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021 ☐ EPA-8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM ☐	PCB ☐ Pesticides ☐ by EPA 8081/8082	Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	OTHER (Specify)	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1.	MW-8D-comp	5/5/09	1600	soil	01 A-D							X										4	
2.	MW-9-comp	5/6/09	1300	soil	02 A-D							X										4	
3.	MW-10-Comp	5/7/09	13:00	Soil	03 A-D							X										4	
4.	MW-11-Comp	5/8/09	19:50	Soil	04 A-E							X										3	
5.	MW-8D-051109	5/11/09	16:55	Water	05 A-C							X										3	
6.	MW-1-051109	5/11/09	14:00	Water	06 A-C							X										3	
7.	MW-7-051109	5/11/09	12:30	Water	07 A-C							X										3	
8.	MW-5-051109	5/11/09	11:15	Water	08 A-C							X										3	
9.																							
10.																							

SPECIAL INSTRUCTIONS

CCI Analytical Laboratories, Inc accepts and processes this request on the terms and conditions set forth on the reverse side. By its signature hereon, Customer accepts these terms and conditions.

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Jeff Kelm 5-12-09 09:00
Received By: [signature] 5/12/09 10:00A
2. Relinquished By:
Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis
~~10~~ Standard ☐ 5 ☐ 3 ☐ 2 ☐ 1 ☐ SAME DAY

Fuels & Hydrocarbon Analysis
☐ 5 Standard ☐ 3 ☐ 1 ☐ SAME DAY

OTHER:
Specify:

Samples received at 2 °C

* Turnaround request less than standard may incur Rush Charges

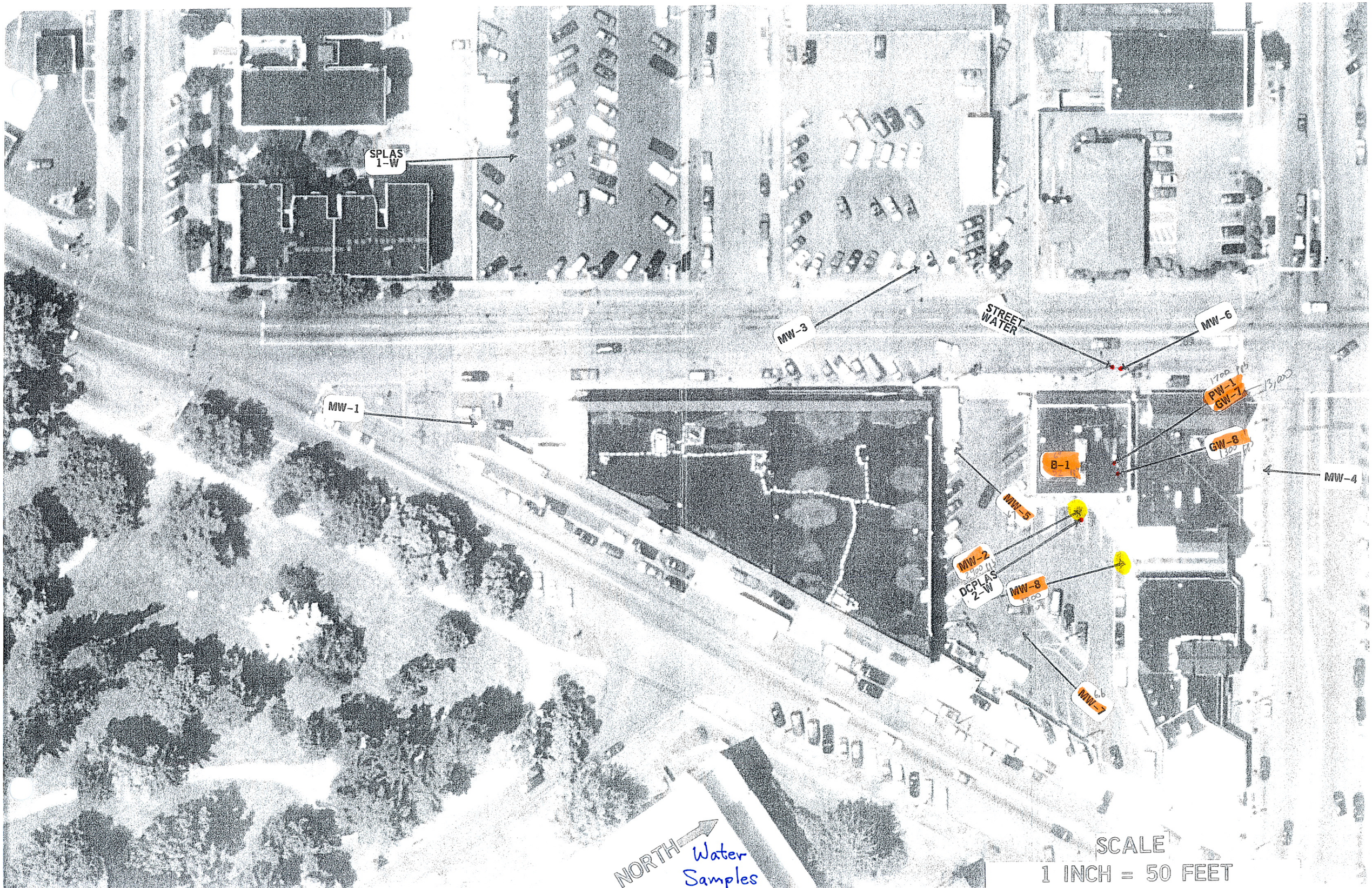
LABORATORY COPY

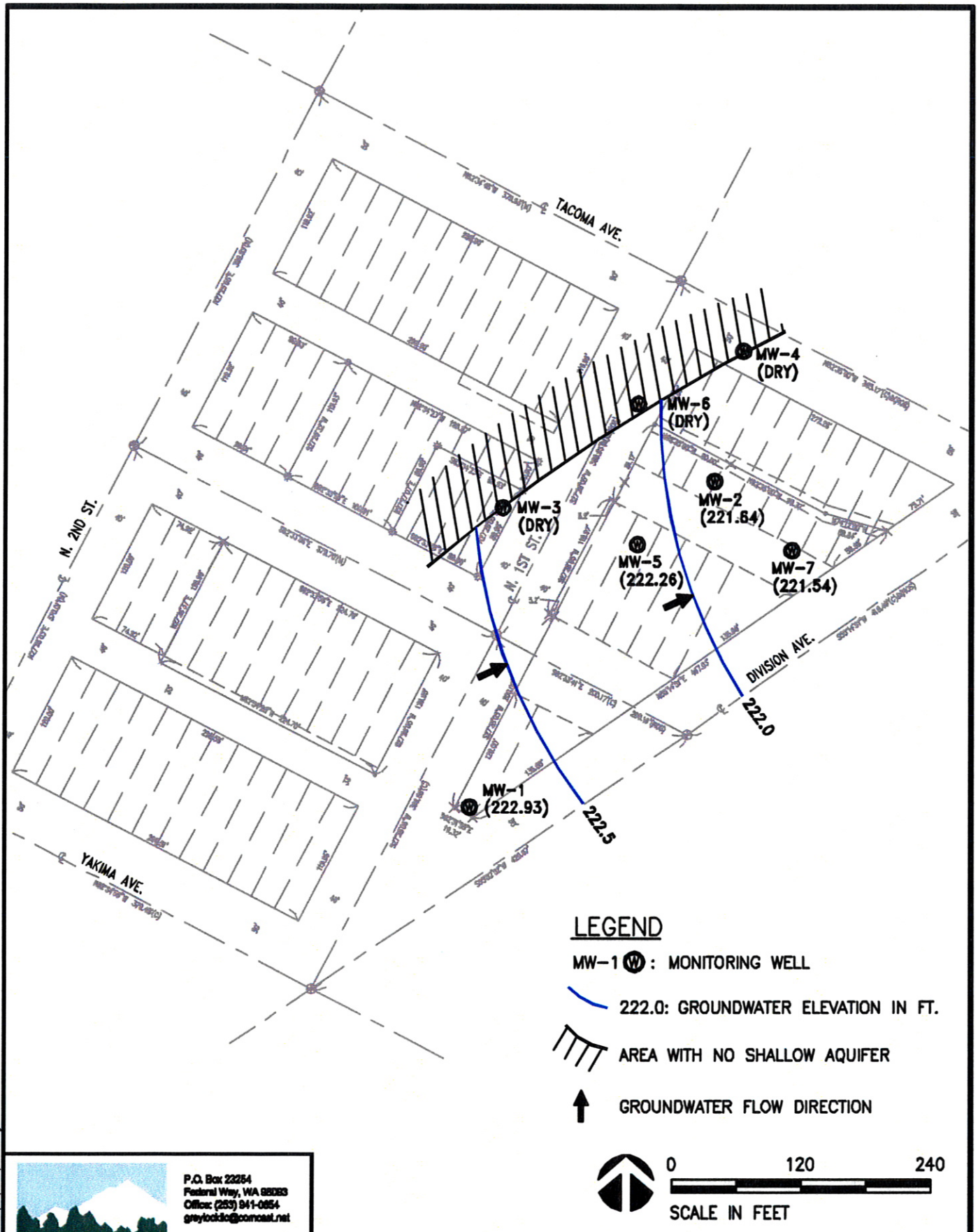
ATTACHMENT C

Data Provided by Stemen Environmental, Inc.

DSS-1
WSPL
SPALS1
ESPL
NPL-3
NPL-1
NPL-5
NPL-6
NPL-4
NPL-2
SE TRENCH
PBWE
5ND10
5ND16
20ND16
20ND8
50ND16
PBRS
PB-2
PB-3
TS-1
TS-2
S-5
S-4
S-7
S-6
SECPB
S-1
S-2
S-3
IB-2
PBLS
T-1
B-1
F-12
F-20
R-12
R-18
ALS-1
IB4
DC1
NORTH
Soil Samples
SCALE
1 INCH = 50 FEET


GV-2
GV-3
GV-1
GV-6
GV-5
GV-4
NORTH
Soil
Gas Samples
SCALE
1 INCH = 50 FEET


SPLAS 1-W
MW-3
STREET WATER
MW-6
PW-1 GW-7
GW-8
MW-4
MW-1
B-1
MW-5
MW-2
DCPLAS 2-W
MW-8
MW-7
NORTH
Water Samples
SCALE
1 INCH = 50 FEET



P.O. Box 22254
Federal Way, WA 98083
Office: (253) 941-0654
greylockllc@comcast.net

GREYLOCK CONSULTING LLC
Water Resources & Environmental Services

TITLE: **Figure 2**
Inferred & Generalized Groundwater Contours
Groundwater Elevations: February 27, 2008

	DRAWN BY:	DATE:	SHEET NO:
Titus Site Division and N 1st St., Tacoma, WA	JRE	March 13, 2008	2

CPS Mar. 13, 2008 - C:\clients\Greylock\ titus.dwg

STEMEN ENVIRONMENTAL, INC.

P.O.BOX 3644
LACEY, WASHINGTON 98509-3644
CONTR. LIC. #STEMEEI081J9

Telephone 360-438-9521 Fax 360-412-1225

WELL #	WELL LOG DATE
MW-1	1/22/07 (ALM at top of well data column)
MW-2	1/23/07 (ALM -169 at top of well data column)
MW-3	2/1/07
MW-4	1/9/08
MW-5	1/11/08
MW-6	1/16/08
MW-7	1/18/08
MW-8	1/17/08

MW-1

Holt Drilling A Division of Boart Longyear Company

Resource Protection Well Report

Project Name BRUCE TITUS CHEV | Date 1-22-07

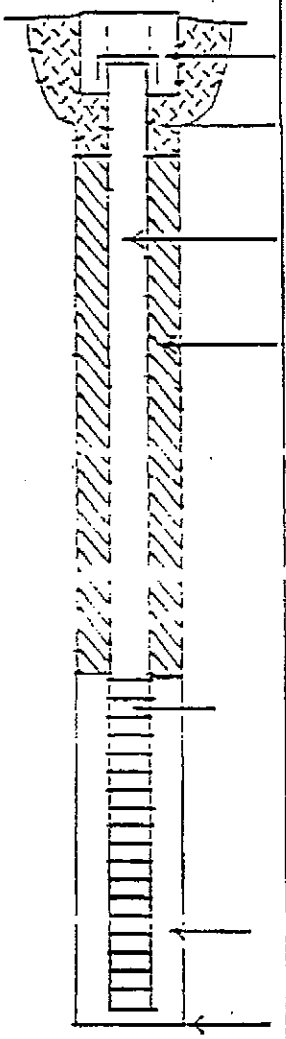
Well Identification # ALM-064 | County PIERCE SE 1/4 SE 1/4

Drilling Method SONIC 6" | Section 32 T 21N R 3E

Driller Ken Phillips | Street Address 630 STADIUM WY

License # 2652 | Start Card R-70639

Consulting Firm STEMEN ENV.



AS-BUILT

WELL DATA

ALM-

MONUMENT: 8" FLUSH

CONCRETE SURFACE SEAL: 2 FT

RISER: 2 "x 60'

BACKFILL: FT

TYPE: 3/8 CHIPS

SCREEN: 2 "x 15'

TYPE: PVC

SLOT SIZE: .020

SAND PACK: 17'

MATERIAL: 10x20 SILICA

WELL DEPTH: 65'

FORMATION DESCRPITION

0-15' FT
BROWN SILTY SAND + GRAVEL FILL 20-30% ~~SAND~~ FINES
FT

15-50' FT
GREY SILTY SAND TO SANDY SILT WITH OCCASSIONAL LARGE GRAVELS VERY DENSE DRY (TILL)
FT

50-65 FT
ORANGE/BROWN SAND MEDIUM DENSE TO DENSE WET @ 54' TURNING GREY IN COLOR @ 60' FT

REMARKS

Signature

MW-L

Holt Drilling A Division of Boart Longyear Company

Resource Protection Well Report

Project Name BRUCE TITUS CHEV

Well Identification # ALM-#69

Drilling Method SONIC 6"

Driller Ken Phillips

License # 2652

Date 1-22-07

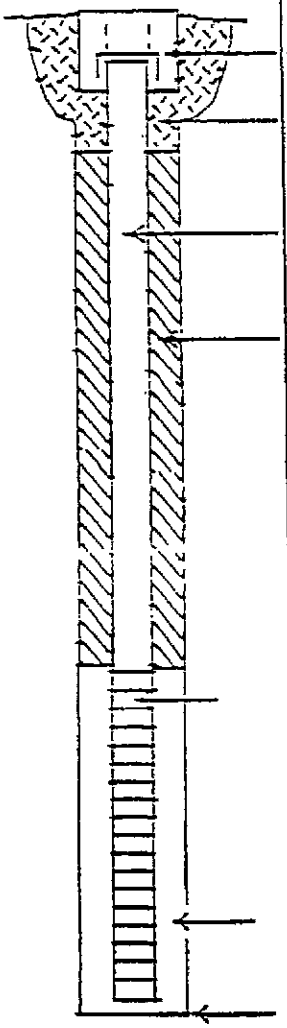
County PIERCE SE 1/4 SE 1/4

Section 32 T 21N R 3E

Street Address 630 STADIUM WY

Start Card R-70639

Consulting Firm STEMEN ENV.



AS-BUILT

WELL DATA

ALM-169

- MONUMENT: 8" FLUSH
- CONCRETE SURFACE SEAL: 2 FT
- RISER: 2 "x 60'
- BACKFILL: FT
- TYPE: 3/8 CHIPS
- SCREEN: 2 "x 15'
- TYPE: PVC
- SLOT SIZE: .020
- SAND PACK: 17'
- MATERIAL: 10x20 SILICA
- WELL DEPTH: 65'

FORMATION DESCRPITION

0-15' FT
BROWN SILTY SAND + GRAVEL FILL 20-30% ~~SAND~~ FINES
FT

15-50' FT
GREY SILTY SAND TO SANDY SILT WITH OCCASSIONAL LAGRE GRAVELS VERY DENSE DRY (TILL)
FT

50-65 FT
ORANGE/BROWN SAND MEDIUM DENSE TO DENSE WET @ 54' TURNING GREY IN COLOR @ 60' FT

REMARKS

Signature

MW-3

Stemen – Titus Job No. 0353

Boring/Well Log for Location Number 4
Date Drilled: 2/1/07
Driller: Boart-Longyear
Geologist: Suzanne Dudziak,Greylock Consulting LLC
Method: Sonic
Borehole diam: about 4.5 in.

Depth (in ft):	**Description (assume dry unless otherwise noted)**
0-1.5 ft	Gravelly SAND, brown, loose
1.5 – 4.0	same as above
4 – 7	same as above
7 – 8	Gravelly SILT, brown, loose
8 – 10	Gravelly SILT, brown, compact, moist
10 – 12.5	Gravelly SAND, tan, loose, dry
12.5 – 15.5	Clayey SILT w/minor gravel, yellow-brown, compact, slightly moist
15.5 – 18	SILT w/minor gravel, lt. brown w/some green, compact
18 – 20	SILT w/minor gravel, brown/green, very compact
20 – 23	same as above
23 – 25	SAND w/minor gravel, lt. brown, loose
25 – 26	same as above
26 – 28	SILT w/minor gravel, brown, very compact
28 – 30	Sandy SILT, brown, compact
30 – 32	SAND (med grained), lt. brown, compact
32 – 34	same as above

34 – 37	Silty SAND, brown, very compact
37 – 40	same as above
40 – 43	SILT, brown, very compact
45 – 47	same as above
47 – 50	Sandy SILT transitioning, brown, compact
50 – 54	same as above
55	SAND w/minor Silt, fine grained, brown (Driller says there's a change)
56 – 58	WET SAND, orange-brown, med grained (I think water is at about 56 ft)
58 – 61	same as above
61 – 64	SAND (not as wet, would call it moist), brown
64 – 67	SILT, brown, DRY, very compacted
67	Bottom of hole

Well Construction:

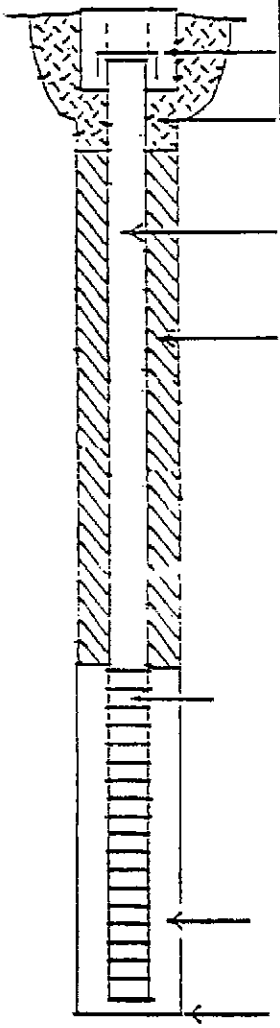
15 feet of 0.02 slot PVC screen. One foot sump on bottom. Screened interval is 51 ft to 66 ft below ground. Silica sand pack around screen and 2 ft above. Moistened bentonite above sand. (I didn't not stay for the concrete, but typically its 18 inches from surface. We should get that information from the driller).

Holt Drilling A Division of Boart Longyear Company MW-3

Resource Protection Well Report

Project Name BRUCE TITUS CHEV
Well Identification # ALM-068
Drilling Method SONIC 6"
Driller Ken Phillips
License # 2652

Date 2-1-07
County PIERCE SE 1/4 SE 1/4
Section 32 T 21N R 3E
Street Address 633 DIVISION
Start Card R70639
Consulting Firm STEMEN ENVIORMENTAL



AS-BUILT

WELL DATA

- MONUMENT: 8' FLUSH
- CONCRETE SURFACE SEAL: 2 FT
- RISER: 2 "x 52'
- BACKFILL: 48 FT
  TYPE: 3/8" CHIPS
- SCREEN: 2 "x 15'
  TYPE: FACTORY FLUSH
  SLOT SIZE: .020
- SAND PACK: OUT 17'
  MATERIAL: 10x20 SILICA
- WELL DEPTH: 67'

FORMATION DESCRPITION

0-3 FT
2" ASPHALT BROWN COARSE SAND & GRAVEL 20-30% FINES (FILL)
FT

3-54 FT
GREY TO BROWN SILTY FINE SAND VERY DENSE DRY OCCASIONAL 20-30% FINES (TILL)

54-65 FT
BROWN MOIST BROWN SAND MEDIUM DENSE 10-15% FINES

65-67' FT
GREY VERY DENSE GREY SILTY FINE SAND WITH GRAVELS (TILL)
FT

REMARKS

Signature

MW-6

BOART LONGYEAR E & I

Resource Protection Well Report

Project Name Stadium Thriftway

Well Identification # Bam 167

Drilling Method Sonic

Driller Thomas Craney

License # 2409

Date 1-16-08

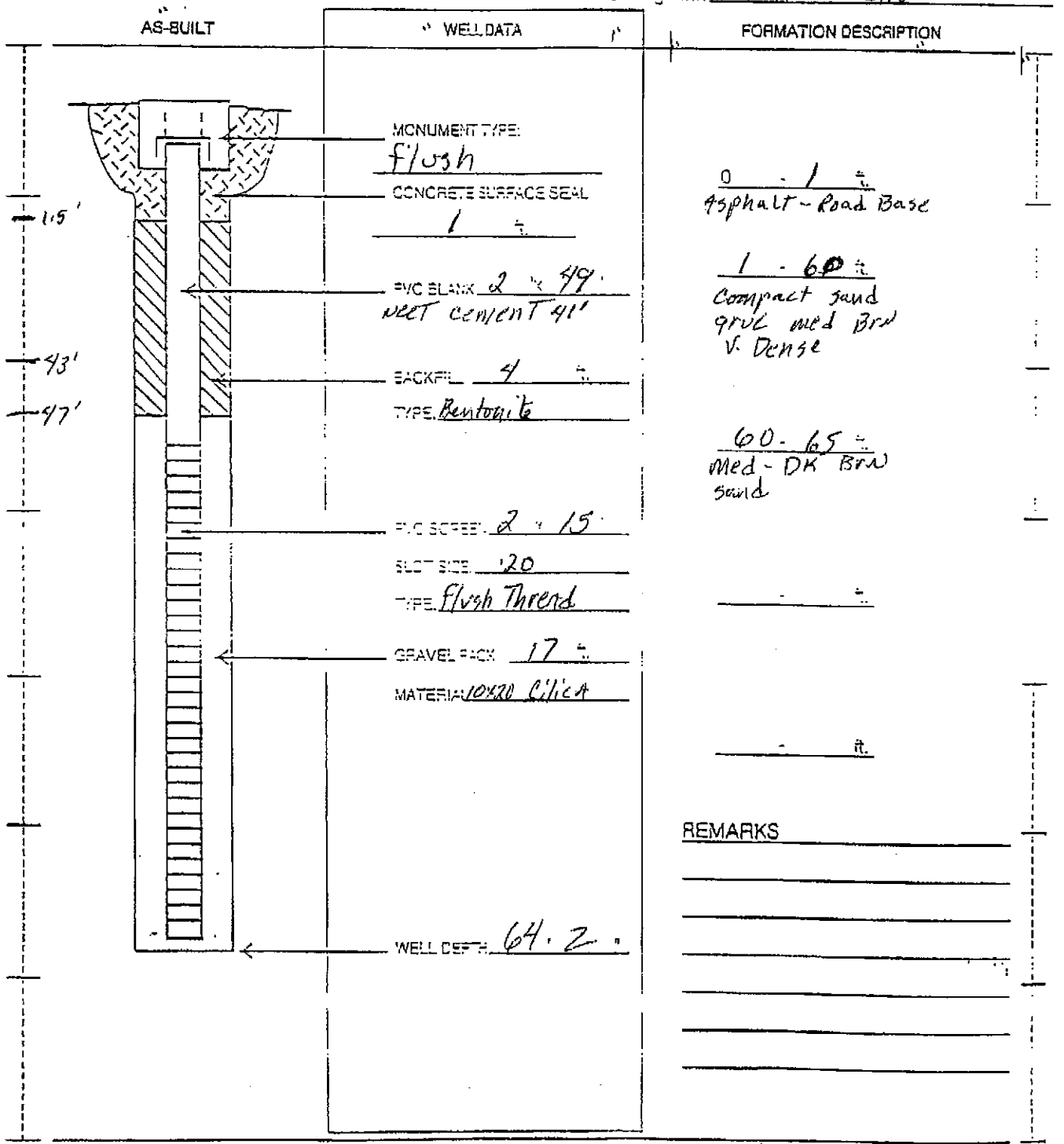
County Pierce NW ¼ SE ¼

Section 32 T. 21 N R. 3E

Street Address N 12th + N Tacoma Ave

Start Card R70822

Consulting Firm Stemen Env.



Signature Thomas W. Craney

MW-7

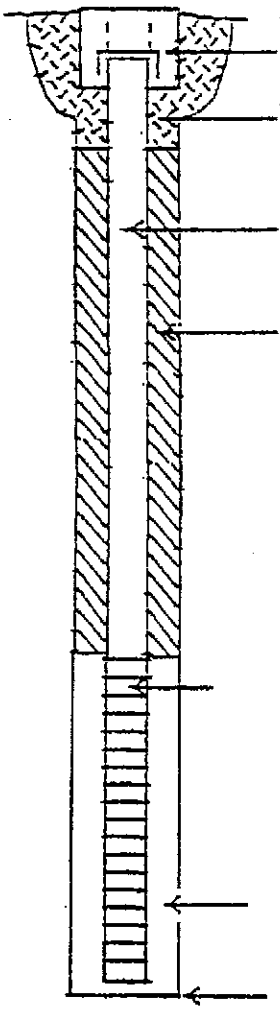
Holt Drilling A Division of Boart Longyear Company

Resource Protection Well Report

Project Name STADIUM THRIFTWAY
Well Identification # BAM-111
Drilling Method SONIC 4x6"
Driller Ken Phillips
License # 2652

Date 1-18-08
County PIERCE NW 1/4 SE 1/4
Section 32 T 21N R 3E
Street Address N. 1st St & Tacoma Ave
Start Card 670822
Consulting Firm STEMEN ENVIRONMENTAL

AS-BUILT



WELL DATA

BAM-111

MONUMENT: 8" FLUSH
CONCRETE SURFACE SEAL: 2 FT
RISER: 2 "x 50'
BACKFILL: FT
TYPE: 3/4 CHIPS
SCREEN: 2 "x 15'
TYPE: FACTORY FLUSH
SLOT SIZE: .020
SAND PACK: 18'
MATERIAL: 10x20 SILICA
WELL DEPTH: 65'

FORMATION DESCRPITION

0-1' FT
ASPHALT + BROWN SAND AND GRAVEL ROAD BASE

1-50' FT
BROWN SILTY SAND WITH LARGE GRAVELS VERY DENSE ~~WET~~ MOIST SAND @ 25'
(TILL) FT

50-65 FT
BROWN OXIDIZED SAND MEDIUM WET @ 55'

FT

FT

REMARKS

Signature K. L. Phillips

MW-8

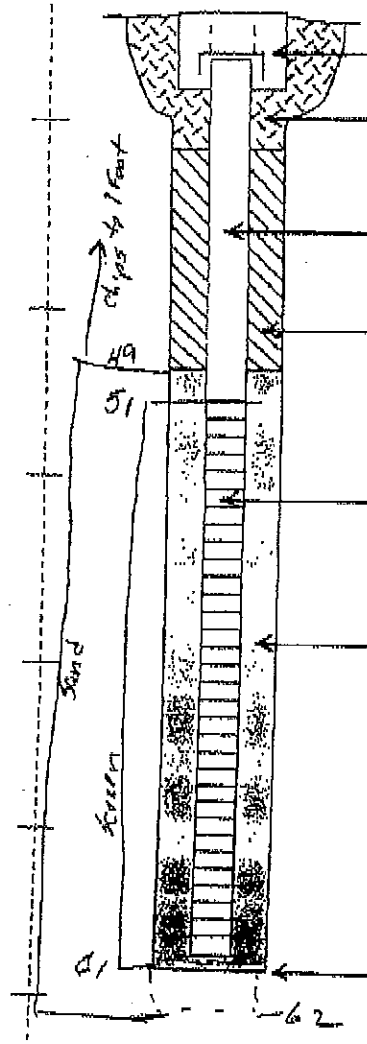
BOART LONGYEAR

Resource Protection Well Report

Project Name: Titus
Well Identification #: BA5078
Drilling Method: Sonic
Driller: Brian Owens
License #: 2997

Date: 4/17/08
County: Pierce NW ¼ SE ¼
Section: 32 T. 21N R. 3E
Street Address: 1015 N Tacoma Ave
Start Card: R70843
Consulting Firm: Stemen

AS-BUILT



WELL DATA

MONUMENT TYPE: flush
CONCRETE SURFACE SEAL: 1 ft.
PVC BLANK: 55 "x 2 "
BACKFILL: 49 ft.
TYPE: 3/4 bentonite chips
PVC SCREEN: 10 "x 2 "
SLOT SIZE: .10
TYPE: PVC
GRAVEL PACK: 49 ft.
MATERIAL: Silica Sand
WELL DEPTH: 61 ft.

FORMATION DESCRIPTION

0 - 15 ft.
BROWN SILTY SAND & GRAVELLY FILL

ft.

15 - 50 ft.
GREY SILTY SANDS INTERMIXED WITH MEDIUM/LARGE GRAVELS

50 - 60 ft.
RUST/BROWN COLORED SAND MEDIUM DENSE/DENSE, WET AT 54 FT.

60 - 65 ft.
GREY COLORED SAND & GRAVEL DENSE.

REMARKS

Signature: Brian Owens

VAV038.CDR

BOART LONGYEAR E & I

MW-4

Resource Protection Well Report

Project Name: Stadium Thrifting

Well Identification #: BA Mn 164

Drilling Method: Sonic

Driller: Thomas W. Croney

License #: 2409

Date: 1/9/08

County: Place, NW ¼ SE ¼

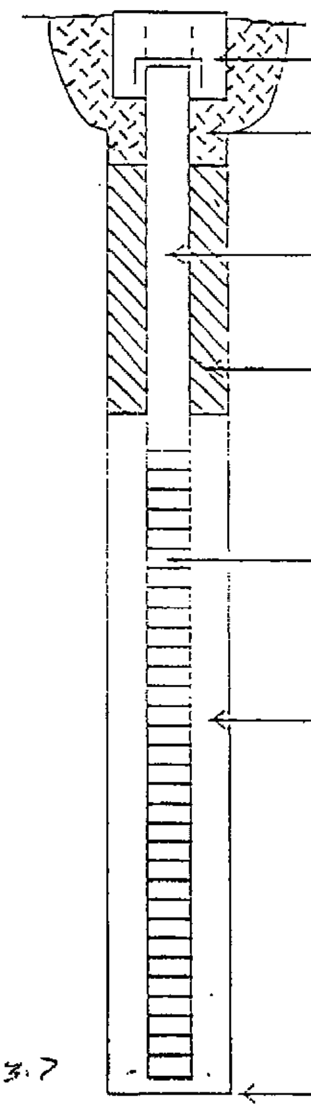
Section: 32 T. 21N R. 3E

Street Address: N 1 st N Tuscany Ave

Start Card: R 70843

Consulting Firm: Stemen ENV

AS-BUILT



2

45

15

63.7

WELL DATA

MONUMENT TYPE: flush

CONCRETE SURFACE SEAL: 1-5 ft.

PVC BLANK: 2 x 48

3ft - Neat cement

BACKFILL: 4 feet

TYPE: Benton

PVC SCREEN: 2 inch 15 feet

SLOT SIZE: 10

TYPE: flush thread

GRAVEL PACK: 18 ft.

MATERIAL: 1020 silica

WELL DEPTH: 63.7 ft

FORMATION DESCRIPTION

0 - 52 ft.
Med Brn till
V. Dense

52 - 61 ft.
compact Sand. Lt Brn gravel

61 - 65 ft.
compact grey till

- ft.

- ft.

REMARKS

Signature: Thomas W. Croney

BOART LONGYEAR E & I

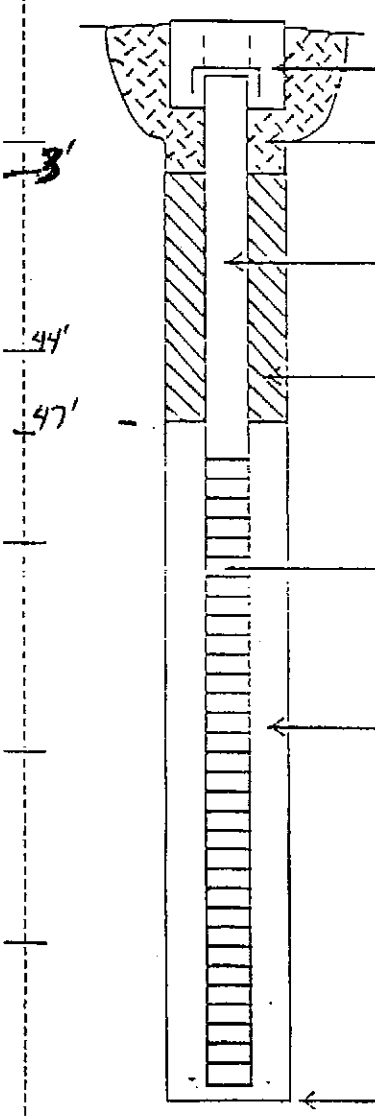
MW-5

Resource Protection Well Report

Project Name Stadium Thriftway
Well Identification # BAM 168
Drilling Method Sonic
Driller Thomas Craney
License # 2409

Date 1-11-08
County Pierce, NW ¼ SE ¼
Section 32 T. 21 N R. 3E
Street Address N. 12th ST & N. Tacoma AVE
Start Card R 70822
Consulting Firm Stemen Env.

AS-BUILT



WELL DATA

MONUMENT TYPE: Flush
CONCRETE SURFACE SEAL: 3 ±
PVC BLANK: 2 x 50'
BACKFILL: 44 ±
TYPE: Bentonite
PVC SCREEN: 2 x 15'
SLOT SIZE: 10
TYPE: Flush Thread
GRAVEL PACK: 18 ±
MATERIAL: 10x20 Silica
WELL DEPTH: 65'

FORMATION DESCRIPTION

0 - 30 ±
med Brn consolidated sand med. grvls

30 - 42 ±
med - dk Brn course sand wet

42 - 57 ±
med Brn Till

57 - 63 ±
med Brn course sand - wet

63 - 65 ft
med Brn Till

REMARKS

Signature Thomas H. Craney

Atmospheric Analysis & Consulting, Inc.

CLIENT : Stemen Environmental
PROJECT NAME : Mike's Office/Bakery
AAC PROJECT NO. : 070531
REPORT DATE : 05/24/07

On May 23, 2007, Atmospheric Analysis & Consulting, Inc. received four (4) Six-Liter Summa Canisters for Volatile Organic Compounds analysis by EPA method TO-15. Upon receipt the samples were assigned unique Laboratory ID numbers as follows:

Client ID	Lab ID	Initial Pressure
Mike's Office can #1	070531-25768	646.6
Mike's Office can #2	070531-25769	685.8
Mike's Bakery can #3	070531-25770	668.3
Mike's Bakery can #4	070531-25771	629.5

An initial reading of the canister's vacuum was taken and recorded. Subsequently, the canisters were brought to positive pressure using UHP-He and the final pressure was also recorded.

TO-15 Analysis - Up to a 500 ml aliquot of samples is concentrated, put through a water and CO2 management system, cryofocused and injected into the GC/MS (full scan mode) for analysis following EPA Method TO-15 as specified in the SOW.

No problems were encountered during receiving, preparation and/ or analysis of these samples. The test results included in this report meet all requirements of the NELAC Standards and/or AAC SOP# AACI-TO-15. Estimated uncertainty of the test results will be provided upon request.

I certify that this data is technically accurate, complete and in compliance with the terms and conditions of the contract. The Laboratory Director or his designee, as verified by the following signature, has authorized the release of the data contained in this hardcopy data package.

If you have any questions or require further explanation of data results, please contact the undersigned.

Sucha S. Parmar, PhD
Technical Director

This report consists of 13 pages.

ACCREDITED IN ACCORDANCE WITH nelac Certificate #E87837

1534 Eastman Avenue • Suite A • Ventura, California 93003 (805) 650-1642 • FAX (805) 650-1644

Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Stemen Environmental
PROJECT NO : 070531
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 05/23/07
DATE REPORTED : 05/24/07

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	Mike's Office can #1			Sample Reporting Limit (RLxDF's)	Mike's Office can #2			Sample Reporting Limit (RLxDF's)	Method Reporting Limit
AAC ID	070531-25768				070531-25769				
Date Sampled	5/22/2007				5/22/2007				
Date Analyzed	5/23/2007				5/23/2007				
Can Dilution Factor	1.55				1.46				
	Result	Qualifier	Dil. Fac.		Result	Qualifier	Dil. Fac.		
Benzene	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Carbon Tetrachloride	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Cyclohexane	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
1,2-Dichloropropane	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Bromodichloromethane	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
1,4-Dioxane	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Trichloroethene	2.2		1.0	1.5	3.5		1.0	1.5	1.0
2,2,4-Trimethylpentane	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Heptane	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
cis-1,3-Dichloropropene	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
4-Methyl-2-Pentanone (MiBK)	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
t-1,3-Dichloropropene	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
1,1,2-Trichloroethane	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Toluene	2.0		1.0	1.5	1.6		1.0	1.5	1.0
2-Hexanone	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Dibromochloromethane	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
1,2-Dibromoethane	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Tetrachloroethylene	153		10.0	15.5	217		10.0	14.6	1.0
Chlorobenzene	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Ethylbenzene	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
m- & p-Xylenes	ND	U	1.0	3.1	ND	U	1.0	2.9	2.0
Bromoform	ND	U	1.0	4.6	ND	U	1.0	4.4	3.0
Styrene	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
1,1,2,2-Tetrachloroethane	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
o-Xylene	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
4-Ethyltoluene	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
1,3,5-Trimethylbenzene	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
1,2,4-Trimethylbenzene	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Benzyl Chloride	ND	U	1.0	7.7	ND	U	1.0	7.3	5.0
1,3-Dichlorobenzene	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
1,4-Dichlorobenzene	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
1,2-Dichlorobenzene	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
1,2,4-Trichlorobenzene	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Hexachlorobutadiene	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
BFB-Surrogate Std. % Recovery	96%				94%				70-130%

J- Analyte was detected. However the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Reporting Limit (RL).
E - Estimated value, result outside linear range of instrument.
U - Compound was analyzed for, but was not detected.
!! - Estimated

Sucha S. Parmar, PhD
Technical Director

To convert ppb to µg/m³:

	Multiply by
PCE	6.89
TCE	5.46
cis-1,2-DCE	4.03
Benzene	3.25
Toluene	3.83
Xylenes	4.41

1534 Eastman Avenue • Suite A • Ventura, California 93003 (805) 650-1642 • FAX (805) 650-1644

Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Stemen Environmental
PROJECT NO : 070531
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 05/23/07
DATE REPORTED : 05/24/07

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	Mike's Office can #1			Sample Reporting Limit (RLxDF's)	Mike's Office can #2			Sample Reporting Limit (RLxDF's)	Method Reporting Limit
AAC ID	070531-25768				070531-25769				
Date Sampled	5/22/2007				5/22/2007				
Date Analyzed	5/23/2007				5/23/2007				
Can Dilution Factor	1.55				1.46				
	Result	Qualifier	Dil. Fac.		Result	Qualifier	Dil. Fac.		
Chlorodifluoromethane	ND	U	1.0	1.5	1.5		1.0	1.5	1.0
Propylene	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Dichlorodifluoromethane	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Chloromethane	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
1,2-Dichloro-1,1,2,2-Tetrafluoroethane	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Vinyl Chloride	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Methanol	31.4		1.0	7.7	37.8		1.0	7.3	5.0
1,3-Butadiene	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Bromomethane	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Chloroethane	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Dichlorofluoromethane	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Ethanol	741		10.0	31.0	1150		20.0	58.4	2.0
Vinyl Bromide	6.8		1.0	1.5	ND	U	1.0	1.5	1.0
Acetone	7.0		1.0	3.1	10.2		1.0	2.9	2.0
Trichlorofluoromethane	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Isopropyl Alcohol	ND	U	1.0	3.1	ND	U	1.0	2.9	2.0
Acrylonitrile	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
1,1-Dichloroethylene	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Methylene Chloride	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Allyl Chloride (Chloroprene)	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Carbon Disulfide	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
t-1,2-Dichloroethylene	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
1,1-Dichloroethane	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
MTBE	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Vinyl Acetate	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
2-Butanone (MEK)	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
cis-1,2- Dichloroethene	2.5		1.0	1.5	4.5		1.0	1.5	1.0
Hexane	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Chloroform	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Ethyl Acetate	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
Tetrahydrofuran	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
1,2-Dichloroethane	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0
1,1,1-Trichloroethane	ND	U	1.0	1.5	ND	U	1.0	1.5	1.0

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Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Stemen Environmental
PROJECT NO : 070531
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 05/23/07
DATE REPORTED : 05/24/07

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	Mike's Bakery can #3			Sample Reporting Limit (RLxDF's)	Mike's Bakery can #4			Sample Reporting Limit (RLxDF's)	Method Reporting Limit
AAC ID	070531-25770				070531-25771				
Date Sampled	5/22/2007				5/22/2007				
Date Analyzed	5/23/2007				5/23/2007				
Can Dilution Factor	1.51				1.59				
	Result	Qualifier	Dil. Fac.		Result	Qualifier	Dil. Fac.		
Chlorodifluoromethane	4.2		1.0	1.5	6.3		1.0	1.6	1.0
Propylene	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Dichlorodifluoromethane	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Chloromethane	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
1,2-Dichloro-1,1,2,2-Tetrafluoroethane	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Vinyl Chloride	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Methanol	51.4		1.0	7.6	50.2		1.0	7.9	5.0
1,3-Butadiene	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Bromomethane	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Chloroethane	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Dichlorofluoromethane	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Ethanol	1730		25.0	75.5	1790		25.0	79.5	2.0
Vinyl Bromide	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Acetone	11.2		1.0	3.0	10.1		1.0	3.2	2.0
Trichlorofluoromethane	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Isopropyl Alcohol	ND	U	1.0	3.0	6.5		1.0	3.2	2.0
Acrylonitrile	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
1,1-Dichloroethylene	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Methylene Chloride	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Allyl Chloride (Chloroprene)	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Carbon Disulfide	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
t-1,2-Dichloroethylene	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
1,1-Dichloroethane	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
MTBE	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Vinyl Acetate	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
2-Butanone (MEK)	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
cis-1,2- Dichloroethene	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Hexane	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Chloroform	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Ethyl Acetate	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Tetrahydrofuran	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
1,2-Dichloroethane	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
1,1,1-Trichloroethane	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0

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Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Stemen Environmental
PROJECT NO : 070531
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 05/23/07
DATE REPORTED : 05/24/07

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	Mike's Bakery can #3			Sample Reporting Limit (RLxDF's)	Mike's Bakery can #4			Sample Reporting Limit (RLxDF's)	Method Reporting Limit
AAC ID	070531-25770				070531-25771				
Date Sampled	5/22/2007				5/22/2007				
Date Analyzed	5/23/2007				5/23/2007				
Can Dilution Factor	1.51				1.59				
	Result	Qualifier	Dil. Fac.		Result	Qualifier	Dil. Fac.		
Benzene	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Carbon Tetrachloride	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Cyclohexane	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
1,2-Dichloropropane	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Bromodichloromethane	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
1,4-Dioxane	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Trichloroethene	2.4		1.0	1.5	ND	U	1.0	1.6	1.0
2,2,4-Trimethylpentane	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Heptane	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
cis-1,3-Dichloropropene	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
4-Methyl-2-Pentanone (MiBK)	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
t-1,3-Dichloropropene	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
1,1,2-Trichloroethane	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Toluene	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
2-Hexanone	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Dibromochloromethane	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
1,2-Dibromoethane	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Tetrachloroethylene	303		10.0	15.1	399		10.0	15.9	1.0
Chlorobenzene	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Ethylbenzene	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
m- & p-Xylenes	ND	U	1.0	3.0	ND	U	1.0	3.2	2.0
Bromoform	ND	U	1.0	4.5	ND	U	1.0	4.8	3.0
Styrene	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
1,1,2,2-Tetrachloroethane	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
o-Xylene	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
4-Ethyltoluene	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
1,3,5-Trimethylbenzene	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
1,2,4-Trimethylbenzene	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Benzyl Chloride	ND	U	1.0	7.6	ND	U	1.0	7.9	5.0
1,3-Dichlorobenzene	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
1,4-Dichlorobenzene	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
1,2-Dichlorobenzene	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
1,2,4-Trichlorobenzene	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
Hexachlorobutadiene	ND	U	1.0	1.5	ND	U	1.0	1.6	1.0
BFB-Surrogate Std. % Recovery	98%				98%				70-130%

J- Analyte was detected. However the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Reporting Limit (RL).
E - Estimated value, result outside linear range of instrument.
U - Compound was analyzed for, but was not detected.
!! - Estimated

Sucha S. Parmar, PhD
Technical Director

399 ppb * 6.89 = 2,750 µg/m³ PCE

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Atmospheric Analysis & Consulting, Inc.

ANALYSIS DATE : 05/23/07
ANALYST : JJG

INSTRUMENT ID : GC/MS-01
STD ID : PS040407-01

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-14/TO-15
Continuing Calibration Verification of the 05/03/07 Calibration

Compound	Conc.	Daily Conc.	%REC
4-BFB (surrogate standard)***	20	20.19	101
Chlorodifluoromethane*	10	9.05	91
Propylene*	10	9.58	96
DiClDIFMethane*	10	8.79	88
CHLOROMETHANE*	10	8.69	87
1,2 DiCl-1,1,2,2-TetraFEthane*	10	8.15	82
VINYL CHLORIDE*	10	9.11	91
Methanol*	10	8.88	89
1,3-Butadiene*	10	9.18	92
BROMOMETHANE*	10	9.09	91
CHLOROETHANE*	10	9.47	95
Dichlorofluoromethane*	10	9.17	92
Ethanol*	10	9.26	93
Vinyl Bromide*	10	9.68	97
Acetone*	10	8.66	87
TRICHLOROFLUOROMETHANE*	10	10.08	101
Isopropanol*	10	10.11	101
Acrylonitrile*	10	10.76	108
1,1 DICHLOROETHENE*	10	10.80	108
METHYLENE CHLORIDE*	10	9.94	99
Allyl CHLORIDE*	10	11.82	118
Carbon disulfide*	10	10.94	109
1,1,2-TRICHLORO-1,2,2-TRIFLUO	10	9.93	99
trans-1,2- DICHLOROETHYLENE*	10	10.89	109
1,1- DICHLOROETHANE*	10	10.65	107
MTBE*	10	9.83	98
Vinyl Acetate*	10	9.39	94
MEK*	10	10.35	104
cis-1,2- DICHLOROETHYLENE*	10	11.50	115
Hexane*	10	10.30	103
CHLOROFORM*	10	10.59	106
Ethyl Acetate*	10	10.47	105
Tetrahydrofuran*	10	9.44	94
1,2-DICHLOROETHANE*	10	11.06	111
1,1,1-TRICHLOROETHANE*	10	11.25	113

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ANALYSIS DATE : 05/23/07
ANALYST : JJG
INSTRUMENT ID : GC/MS-01
STD ID : PS040407-01

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-14/TO-15

Continuing Calibration Verification of the 05/03/07 Calibration

Compounds	Conc	Daily Conc	%REC
BENZENE**	10	11.32	113
CARBON TETRACHLORIDE**	10	11.09	111
Cyclohexane**	10	10.91	109
1,2-DICHLOROPROPANE**	10	11.18	112
Bromodichloromethane**	10	11.37	114
1,4-Dioxane**	10	11.17	112
TRICHLOROETHENE**	10	10.89	109
2,2,4-Trimethylpentane**	10	11.16	112
Heptane**	10	11.51	115
cis- 1,3 DICHLOROPROPENE**	10	9.70	97
MiBK**	10	10.83	108
trans 1,3 DICHLOROPROPENE**	10	9.41	94
1,1,2-TRICHLOROETHANE**	10	10.97	110
TOLUENE**	10	9.87	99
2-Hexanone**	10	11.40	114
Dibromochloromethane**	10	11.75	118
1,2 DIBROMOETHANE**	10	11.32	113
TETRACHLOROETHYLENE**	10	11.38	114
CHLOROBENZENE***	10	10.88	109
ETHYLBENZENE***	10	10.75	108
m-, & p- XYLENES***	20	20.28	101
Bromoform***	10	9.98	100
STYRENE***	10	9.93	99
1,1, 2,2- TETRACHLORETHANE**	10	10.75	108
o- XYLENE***	10	10.15	102
Ethyltoluene***	10	10.87	109
1,3,5- TRIMETHYLBENZENE***	10	10.27	103
1,2,4- TRIMETHYLBENZENE***	10	9.99	100
Benzyl Chloride***	10	9.94	99
1,3- DICHLOROBENZENE***	10	11.22	112
1,4- DICHLOROBENZENE***	10	11.53	115
1,2-DICHLOROBENZENE***	10	11.64	116
1,2,4-TRICHLOROBENZENE***	10	11.88	119
HEXACHLOROBUTADIENE***	10	12.50	125

* Internal std calculation IS1 : Bromochloromethane

** Internal std calculation IS2 : 1,4-Difluorobenzene

*** Internal std calculation IS3 : Chlorobenzene-d5

%REC should be 70-130%

!! Compound failed criteria and results should be considered estimated.

Sucha S. Parmar, PhD
Technical Director

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Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report

CLIENT ID	: Laboratory Control Spike	DATE ANALYZED	: 05/23/07
AAC ID	: LCS/LCSD	DATE REPORTED	: 05/23/07
MEDIA	: Air	UNITS	: ppbv

TO-14/15 Laboratory Control Spike Recovery

Compound	Sample Conc.	Spike Added	Spike Res	Dup Spike Res	Spike % Rec *	Spike Dup % Rec *	RPD** %
1,1-DICHLOROETHYLENE	0.0	10.00	10.80	11.10	108	111	2.7
METHYLENE CHLORIDE	0.0	10.00	9.94	10.07	99	101	1.3
BENZENE	0.0	10.00	11.32	12.07	113	121	6.4
TRICHLOROETHENE	0.0	10.00	10.89	11.29	109	113	3.6
TOLUENE	0.0	10.00	9.87	10.55	99	105	6.7
TETRACHLOROETHYLENE	0.0	10.00	11.38	11.95	114	119	4.9
CHLOROBENZENE	0.0	10.00	10.88	11.38	109	114	4.5
ETHYLBENZENE	0.0	10.00	10.75	11.28	107	113	4.8
m-, & p- XYLENES	0.0	20.00	20.28	21.24	101	106	4.6
o- XYLENE	0.0	10.00	10.15	10.63	101	106	4.6

* Must be 70-130%

** Must be < 25%

Sucha S. Parmar, PhD
Technical Director

1534 Eastman Avenue • Suite A • Ventura, California 93003 (805) 650-1642 • FAX (805) 650-1644

Method Blank Analysis Report

MATRIX	: AIR	ANALYSIS DATE	: 05/23/07
UNITS	: ppbv	REPORT DATE	: 05/23/07

VOLATILE ORGANIC COMPOUNDS BY EPA TO-14/TO-15

Client ID / *AAC ID*	Method Blank MB 052307	RL
Chlorodifluoromethane*	<RL	1.0
Propylene*	<RL	1.0
DiClDIFMethane*	<RL	1.0
CHLOROMETHANE*	<RL	1.0
1,2 DiCl-1,1,2,2-TetraFEthane*	<RL	1.0
VINYL CHLORIDE*	<RL	1.0
Methanol*	<RL	5.0
1,3-Butadiene*	<RL	1.0
BROMOMETHANE*	<RL	1.0
CHLOROETHANE*	<RL	1.0
Dichlorofluoromethane	<RL	1.0
Ethanol*	<RL	2.0
Vinyl Bromide*	<RL	1.0
Acetone*	<RL	2.0
TRICHLOROFLUOROMETHANE*	<RL	1.0
Isopropyl Alcohol*	<RL	2.0
Acrylonitrile*	<RL	1.0
1,1 DICHLOROETHENE*	<RL	1.0
METHYLENE CHLORIDE*	<RL	1.0
Allyl CHLORIDE*	<RL	1.0
Carbon disulfide*	<RL	1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE*	<RL	1.0
trans-1,2- DICHLOROETHYLENE*	<RL	1.0
1,1- DICHLOROETHANE*	<RL	1.0
MTBE*	<RL	1.0
Vinyl Acetate*	<RL	1.0
MEK*	<RL	1.0
cis-1,2- DICHLOROETHYLENE*	<RL	1.0
Hexane*	<RL	1.0
CHLOROFORM*	<RL	1.0
Ethyl Acetate*	<RL	1.0
Tetrahydrofuran*	<RL	1.0
1,2-DICHLOROETHANE*	<RL	1.0
1,1,1-TRICHLOROETHANE*	<RL	1.0
BENZENE**	<RL	1.0
CARBON TETRACHLORIDE**	<RL	1.0
Cyclohexane**	<RL	1.0
1,2-DICHLOROPROPANE**	<RL	1.0
Bromodichloromethane**	<RL	1.0
1,4-Dioxane**	<RL	1.0
TRICHLOROETHENE**	<RL	1.0
2,2,4-Trimethylpentane**	<RL	1.0
Heptane**	<RL	1.0

1534 Eastman Avenue • Suite A • Ventura, California 93003 (805) 650-1642 • FAX (805) 650-1644

Atmospheric Analysis & Consulting, Inc.

Method Blank Analysis Report

MATRIX	: AIR	ANALYSIS DATE	: 05/23/07
UNITS	: ppbv	REPORT DATE	: 05/23/07

VOLATILE ORGANIC COMPOUNDS BY EPA TO-14/TO-15

Client ID / AAC ID	Method Blank MB 052307	RL
cis- 1,3 DICHLOROPROPENE**	<RL	1.0
MiBK**	<RL	1.0
trans 1,3 DICHLOROPROPENE**	<RL	1.0
1,1,2-TRICHLOROETHANE**	<RL	1.0
TOLUENE**	<RL	1.0
2-Hexanone**	<RL	1.0
Dibromochloromethane**	<RL	1.0
1,2 DIBROMOETHANE**	<RL	1.0
TETRACHLOROETHYLENE**	<RL	1.0
CHLOROBENZENE***	<RL	1.0
ETHYLBENZENE***	<RL	1.0
m-, & p- XYLENES***	<RL	2.0
Bromoform***	<RL	3.0
STYRENE***	<RL	1.0
1,1, 2,2- TETRACHLORETHANE***	<RL	1.0
o- XYLENE***	<RL	1.0
Ethyltoluene***	<RL	1.0
1,3,5- TRIMETHYLBENZENE***	<RL	1.0
1,2,4- TRIMETHYLBENZENE***	<RL	1.0
Benzyl Chloride***	<RL	5.0
1,3- DICHLOROBENZENE***	<RL	1.0
1,4- DICHLOROBENZENE***	<RL	1.0
1,2-DICHLOROBENZENE***	<RL	1.0
1,2,4 TRICHLOROBENZENE***	<RL	1.0
HEXACHLOROBUTADIENE***	<RL	1.0
System Monitoring Compounds		
BFB-Surrogate Std. % Recovery	91%	--

RL - Reporting Limit

Sucha S. Parmar, PhD
Technical Director

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Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report

AAC ID : 070528-25759
MATRIX : Air

DATE ANALYZED : 05/23/07
DATE REPORTED : 05/23/07
UNITS : ppbv

TO-14/TO-15 Duplicate Analysis

Compound	Sample Conc	Duplicate Conc	% RPD
Chlorodifluoromethane*	1.9	1.9	1.1
Propylene*	<RL	<RL	0.0
DiClDIFMethane*	<RL	<RL	0.0
CHLOROMETHANE*	<RL	<RL	0.0
1,2 DiCl-1,1,2,2-TetraFEthane*	<RL	<RL	0.0
VINYL CHLORIDE*	<RL	<RL	0.0
Methanol*	10.5	10.4	1.0
1,3-Butadiene*	<RL	<RL	0.0
BROMOMETHANE*	<RL	<RL	0.0
CHLOROETHANE*	<RL	<RL	0.0
Dichlorofluoromethane	<RL	<RL	0.0
Ethanol*	5.5	5.5	0.9
Vinyl Bromide*	<RL	<RL	0.0
Acetone*	4.0	4.1	1.2
TRICHLOROFLUOROMETHANE*	<RL	<RL	0.0
Isopropyl Alcohol*	<RL	<RL	0.0
Acrylonitrile*	<RL	<RL	0.0
1,1 DICHLOROETHENE*	<RL	<RL	0.0
METHYLENE CHLORIDE*	<RL	<RL	0.0
Allyl CHLORIDE*	<RL	<RL	0.0
Carbon disulfide*	<RL	<RL	0.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE*	<RL	<RL	0.0
trans-1,2- DICHLOROETHYLENE*	<RL	<RL	0.0
1,1- DICHLOROETHANE*	<RL	<RL	0.0
MTBE*	<RL	<RL	0.0
Vinyl Acetate*	<RL	<RL	0.0
MEK*	<RL	<RL	0.0
cis-1,2- DICHLOROETHYLENE*	<RL	<RL	0.0
Hexane*	<RL	<RL	0.0
CHLOROFORM*	<RL	<RL	0.0
Ethyl Acetate*	<RL	<RL	0.0
Tetrahydrofuran*	<RL	<RL	0.0
1,2-DICHLOROETHANE*	<RL	<RL	0.0
1,1,1-TRICHLOROETHANE*	<RL	<RL	0.0
BENZENE**	<RL	<RL	0.0
CARBON TETRACHLORIDE**	<RL	<RL	0.0

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Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report

AAC ID	: 070528-25759	DATE ANALYZED	: 05/23/07
MATRIX	: Air	DATE REPORTED	: 05/23/07
		UNITS	: ppbv

TO-14/TO-15 Duplicate Analysis

Compound	Sample Conc	Duplicate Conc	% RPD
Cyclohexane**	<RL	<RL	0.0
1,2-DICHLOROPROPANE**	<RL	<RL	0.0
Bromodichloromethane**	<RL	<RL	0.0
1,4-Dioxane**	<RL	<RL	0.0
TRICHLOROETHENE**	<RL	<RL	0.0
2,2,4-Trimethylpentane**	<RL	<RL	0.0
Heptane**	<RL	<RL	0.0
cis- 1,3 DICHLOROPROPENE**	<RL	<RL	0.0
MiBK**	<RL	<RL	0.0
trans 1,3-DICHLOROPROPENE**	<RL	<RL	0.0
1,1,2-TRICHLOROETHANE**	<RL	<RL	0.0
TOLUENE**	<RL	<RL	0.0
2-Hexanone**	<RL	<RL	0.0
Dibromochloromethane**	<RL	<RL	0.0
1,2 DIBROMOETHANE**	<RL	<RL	0.0
TETRACHLOROETHYLENE**	<RL	<RL	0.0
CHLOROBENZENE***	<RL	<RL	0.0
ETHYLBENZENE***	<RL	<RL	0.0
m-, & p- XYLENES***	<RL	<RL	0.0
Bromoform***	<RL	<RL	0.0
STYRENE***	<RL	<RL	0.0
1,1,2,2-TETRACHLOROETHANE***	<RL	<RL	0.0
o- XYLENE***	<RL	<RL	0.0
Ethyltoluene***	<RL	<RL	0.0
1,3,5- TRIMETHYLBENZENE***	<RL	<RL	0.0
1,2,4- TRIMETHYLBENZENE***	<RL	<RL	0.0
Benzyl Chloride***	<RL	<RL	0.0
1,3- DICHLOROBENZENE***	<RL	<RL	0.0
1,4- DICHLOROBENZENE***	<RL	<RL	0.0
1,2-DICHLOROBENZENE***	<RL	<RL	0.0
1,2,4 TRICHLOROBENZENE***	<RL	<RL	0.0
Hexachlorobutadiene***	<RL	<RL	0.0
System Monitoring Compounds			
BFB-Surrogate Std. % Recovery	98%	96%	2.4

RL - Reporting Limit

Sucha S. Parmar, PhD
Technical Director

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ATMOSPHERIC ANALYSIS & CONSULTING, INC.
1534 Eastman Avenue, Suite A
Ventura, California 93003
Phone (805) 650-1642 Fax (805) 650-1644
E-mail: aaclab@earthlink.net

AAC Project No. 070528

CHAIN OF CUSTODY/ ANALYSIS REQUEST FORM

Client Name	Project Name
Stemen Environmental	Mikes Office / Bakery
Project Mgr (Print Name)	Project Number
Paul Stemen	NA
Sampler's Name (Print Name)	Sampler's Signature
Paul Stemen	

AAC Sample No.	Date Sampled	Time Sampled	Sample Type	Client Sample ID/Description	Type/No. of Containers	Analysis Requested: TO-15						
25768	5/22/07	8 hr	Air	Mike's Office Can #1	Summa 1	X				344		
25769	5/22/07	8 hr	Air	Mike's Office Can #2	Summa 1	X				505		
25770	5/22/07	8 hr	Air	Mike's Bakery Can #3	Summa 1	X				438		
25771	5/22/07	8 hr	Air	Mike's Bakery Can #4	Summa 1	X				407		

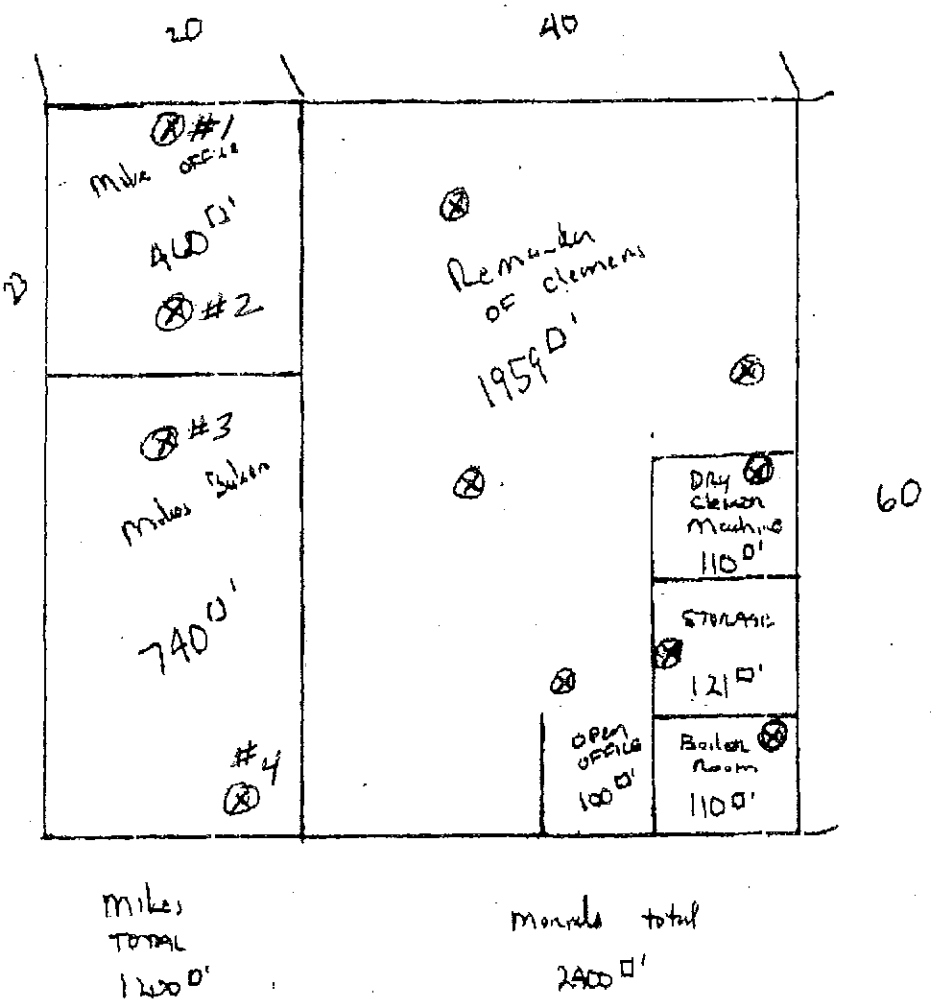
Send report:
Stemen Environmental, Inc
5724 Puget Beach Road, NE
Olympia, WA 98576
Attn: Paul Stemen
Phone#: 360-438-9521
Fax# 360-413-1225

Send invoice to:
Same as above
Attn: ____
P.O. # ____

Turnaround Time
24-Hr ____ 48-Hr X
5 Day ____ Normal ____
Other (Specify) ____

Special Instructions/remarks:

Relinquished by (Signature):	Print Name:	Date/Time	Received by (signature):	Print Name
			[signature]	Thien Tran 5/23/07 1020
Relinquished by (Signature):	Print Name:	Date/Time	Received by (signature):	Print Name



⊗ = Suggested Sampling Location

Atmospheric Analysis & Consulting, Inc.

Price Quote# 07-063

Sampling Location	Area (Ft^2)	Number of Samples
Mike's Office	460	2 (8-hour average)
Mike's Bakery	740	3 (8-hour average)
Drycleaning Machine	110	2 (Grab samples when machine is in operation)
Storage Room	121	2 grab samples or 1 hour sample
Boiler Room	110	2 grab samples or 1 hour sample
Remainder of cleaning facility where employees work most of the time.	1,959	4 (8-hour average)

Suggested sample collection points in various rooms are marked on the facility map you provided (see attached). Please call me if I can be of any further help.

Our standard turnaround is 10 business days. Rush analysis is available upon request in writing and is subject to a surcharge.

I trust that this price quotation is commensurate with your needs at this time. Should you have additional questions, please do not hesitate to call me at (805) 650-1642.

Thank you for your consideration.

Regards,

Dr. Sucha S. Parmar
President
SSP/jlg

Client Signature

5/17/07
Date

1534 Eastman Avenue, Suite A, Ventura, CA 93003 (805) 650 1642 (805) 650 1644 fax

ANALYSES OF AIR FOR SPECIFIC HALOGENATED HYDROCARBONS BY EPA 8260 ? — Not just these;

SAMPLE-NUMBER		BACK BAKERY	FRONT BAKERY	BACK OFFICE
SAMPLE DATE		2/8/08	2/8/08	2/8/08
	AIR REPORTING LIMITS	mg/m	mg/m	mg/m
DICHLORODIFLUOROMETHANE	1	ND	ND	ND
CHLOROMETHANE	1	ND	ND	ND
VINYL CHLORIDE	0.2	ND	ND	ND
BROMOMETHANE	1	ND	ND	ND
CHLOROETHANE	1	ND	ND	ND
TRICHLOROFLUOROMETHANE	1	ND	ND	ND
ACETONE	10	ND	ND	ND
METHYLENE CHLORIDE	10	ND	ND	ND
1,1 DICHLOROETHENE	1	ND	ND	ND
METHYL-T-BUTYL ETHER (MTBE)	1	ND	ND	ND
TRANS-1,2-DICHLOROETHENE	1	ND	ND	ND
1,1 DICHLOROETHANE	1	ND	ND	ND
2-BUTANONE (MEK)	10	ND	ND	ND
CIS-1,2 DICHLOROETHENE	1	ND	ND	ND
2,2-DICHLOROPROPANE	1	ND	ND	ND
CHLOROFORM	1	ND	ND	ND
BROMOCHLOROMETHANE	1	ND	ND	ND
1,1,1- TRICHLOROETHANE	1	ND	ND	ND
1,2 DICHLOROETHANE (EDC)	1	ND	ND	ND
1,1-DICHLOROPROPENE	1	ND	ND	ND
CARBON TETRACHLORIDE	1	ND	ND	ND
BENZENE	1	0.38	ND	ND
TRICHLOROETHENE (TCE)	1	ND	ND	ND
1,2-DICHLOROPROPANE	1	ND	ND	ND
DIBROMOMETHANE	1	ND	ND	ND
BROMODICHLOROMETHANE	1	ND	ND	ND
4-METHYL-2-PENTANONE (MIBK)	1	ND	ND	ND
CIS-1,3-DICHLOROPROPENE	1	ND	ND	ND
TRANS-1,3-DICHLOROPROPENE	1	ND	ND	ND
TOULENE	1	0.19	ND	ND
TRANS-1,3-DICHLOROPROPENE	1	ND	ND	ND
1,1,2,-TRICHLOROETHANE	1	ND	ND	ND
2-HEXANONE	1	ND	ND	ND

ALYSES OF AIR FOR SPECIFIC HALOGENATED
HYDROCARBONS BY EPA 8260

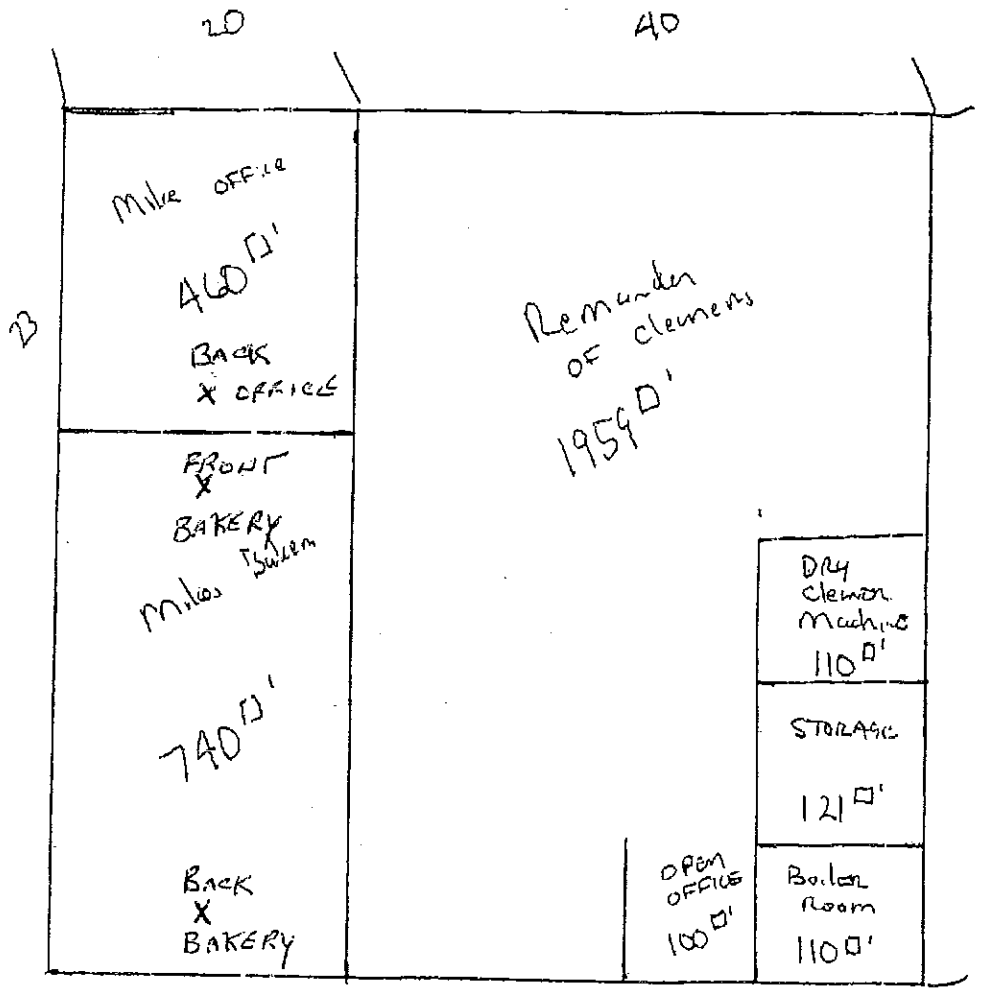
SAMPLE-NUMBER		BACK BAKERY	FRONT BAKERY	BACK OFFICE
SAMPLE DATE		2/8/08	2/8/08	2/8/08
	AIR REPORTING LIMITS	mg/m	mg/m	mg/m
1,3-DICHLOROPROPANE	1	ND	ND	ND
DIBROMOCHLOROMETHANE	1	ND	ND	ND
TETRACHLOROETHENE (PCE)	1	0.65	6.7	2.5
1,2-DIBROMOETHANE	0.1	ND	ND	ND
CHLOROBENZENE	1	ND	ND	ND
1,1,1,2-TETRACHLOROETHANE	1	ND	ND	ND
ETHYLBENZENE	1	ND	ND	ND
XYLENES	1	0.19	ND	ND
STYRENE	1	ND	ND	ND
BROMOFORM	1	ND	ND	ND
1,1,2,2-TETRACHLOROETHANE	1	ND	ND	ND
ISOPROPYLBENZENE	1	ND	ND	ND
,2,3-TRICHCHLOROPROPANE	1	ND	ND	ND
BROMOBENZENE	1	ND	ND	ND
N-PROPYLBENZE	1	ND	ND	ND
2-CHLOROTOLUENE	1	ND	ND	ND
4-CHLORODOLUENE	1	ND	ND	ND
1,3,5-TRIMETHYLBENZE	1	ND	ND	ND
TERT-BUTYLBENZENE	1	ND	ND	ND
1,2,4-TRIMETHYBENZENE	1	ND	ND	ND
SEC-BUTYLBENZENE	1	ND	ND	ND
1,3-DICHLOROBENZENE	1	ND	ND	ND
1,4-DICHLOROBENZENE	1	ND	ND	ND
ISOPROPYLTOULENE	1	ND	ND	ND
1,2-DICHLOROBENZENE	1	ND	ND	ND
N-BUTYLBENZENE	1	ND	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	1	ND	ND	ND
1,2,4-TRICHLOROBENZENE	1	ND	ND	ND
NAPHTHALENE	1	ND	ND	ND
HEXACHLORO-1,3-BUTADIENE	1	ND	ND	ND
1,2,3-TRICHLOROBENZENE	1	ND	ND	ND

Multiply by 1,000 to convert to $\mu g/m^3$

AIR ANALYSES OF METHANE BY EPA METHOD 8015 IN AIR

SAMPLE NUMBER	SAMPLE DATE	METHANE
		ppmv
BACK BAKERY	2/8/08	3.9
FRONT BAKERY	2/8/08	5.5
FRONT OFFICE	2/8/08	6.6

Feb 2008 Air Sampling Locations



Mikes
TOTAL
1200 □'

Monnels total
2400 □'

X Peristaltic Pump Air Quality Testing Location

$1\,L = 1{,}000\ cm^3$

$1\,m^3 = (100\,cm)^3 = 1{,}000{,}000\ cm^3 = 1{,}000\,L$

∴ Multiply µg/L by 1,000 to get µg/m³.

TITUS/THRIFTWAY

ANALYSES OF SOIL GAS VAPORS FOR SPECIFIC HALOGENATED HYDROCARBONS BY EPA 8260

SAMPLE-NUMBER		GV-1	GV-2	GV-3	GV-4	GV-5	GV-6
SAMPLE DATE	SOIL GAS VAPORS REPORTING LIMITS	5/8/08	5/8/08	5/8/08	5/8/08	5/8/08	5/8/08
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
DICHLORODIFLUOROMETHANE	0.1	ND	ND	ND	ND	ND	ND
CHLOROMETHANE	0.1	ND	ND	ND	ND	ND	ND
VINYL CHLORIDE	0.2	ND	ND	ND	0.54	ND	ND
BROMOMETHANE	0.1	ND	ND	ND	ND	ND	ND
CHLOROETHANE	0.1	ND	ND	ND	ND	ND	ND
TRICHLOROFLUOROMETHANE	0.1	ND	ND	ND	ND	ND	ND
ACETONE	1	ND	ND	ND	ND	ND	ND
METHYLENE CHLORIDE	1	ND	ND	ND	ND	ND	ND
1,1 DICHLOROETHENE	0.1	ND	ND	ND	ND	ND	ND
METHYL-T-BUTYL ETHER (MTBE)	0.1	ND	ND	ND	ND	ND	ND
TRANS-1,2-DICHLOROETHENE	0.05	ND	ND	ND	ND	ND	ND
1,1 DICHLOROETHANE	0.1	ND	ND	ND	ND	ND	ND
2-BUTANONE (MEK)	0.1	ND	ND	ND	ND	ND	ND
CIS-1,2 DICHLOROETHENE	0.05	ND	ND	ND	16	0.32	2.5
2,2-DICHLOROPROPANE	0.1	ND	ND	ND	ND	ND	ND
CHLOROFORM	0.05	ND	ND	ND	ND	ND	ND
BROMOCHLOROMETHANE	0.1	ND	ND	ND	ND	ND	ND
1,1,1- TRICHLOROETHANE	0.1	ND	ND	ND	ND	ND	ND
1,2 DICHLOROETHANE (EDC)	0.1	ND	ND	ND	ND	ND	ND
1,1-DICHLOROPROPENE	0.1	ND	ND	ND	ND	ND	ND
CARBON TETRACHLORIDE	0.1	ND	ND	ND	ND	ND	ND
BENZENE	0.02	ND	ND	ND	0.14	0.39	0.23
TRICHLOROETHENE (TCE)	0.02	ND	ND	ND	ND	2.7	7.8
1,2-DICHLOROPROPANE	0.1	ND	ND	ND	ND	ND	ND
DIBROMOMETHANE	0.1	ND	ND	ND	ND	ND	ND
BROMODICHLOROMETHANE	0.1	ND	ND	ND	ND	ND	ND
4-METHYL-2-PENTANONE (MIBK)	0.1	ND	ND	ND	ND	ND	ND
CIS-1,3-DICHLOROPROPENE	0.1	ND	ND	ND	ND	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.1	ND	ND	ND	ND	ND	ND
TOULENE	0.1	0.13	0.24	0.16	0.1	0.27	0.2
TRANS-1,3-DICHLOROPROPENE	0.1	ND	ND	ND	ND	ND	ND
1,1,2,-TRICHLOROETHANE	0.1	ND	ND	ND	ND	ND	ND
2-HEXANONE	0.1	ND	ND	ND	ND	ND	ND

ANALYSES OF SOIL GAS VAPORS FOR SPECIFIC HALOGENATED HYDROCARBONS BY EPA 8260

SAMPLE-NUMBER		GV-1	GV-2	GV-3	GV-4	GV-5	GV-6
SAMPLE DATE	SOIL GAS VAPORS REPORTING LIMITS	5/8/08	5/8/08	5/8/08	5/8/08	5/8/08	5/8/08
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,3-DICHLOROPROPANE	0.1	ND	ND	ND	ND	ND	ND
DIBROMOCHLOROMETHANE	0.1	ND	ND	ND	ND	ND	ND
TETRACHLOROETHENE (PCE)	0.02	0.11	1	0.16	12	1.6	70
1,2-DIBROMOETHANE	0.1	ND	ND	ND	ND	ND	ND
CHLOROBENZENE	0.1	ND	ND	ND	ND	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.1	ND	ND	ND	ND	ND	ND
ETHYLBENZENE	0.1	ND	ND	ND	ND	ND	ND
XYLENES	0.1	ND	0.15	0.23	ND	ND	ND
STYRENE	0.1	ND	ND	ND	ND	ND	ND
BROMOFORM	0.1	ND	ND	ND	ND	ND	ND
1,1,2,2-TETRACHLOROETHANE	0.1	ND	ND	ND	ND	ND	ND
ISOPROPYLBENZENE	0.1	ND	ND	ND	ND	ND	ND
,2,3-TRICHCHLOROPROPANE	0.1	ND	ND	ND	ND	ND	ND
BROMOBENZENE	0.1	ND	ND	ND	ND	ND	ND
N-PROPYLBENZE	0.1	ND	ND	ND	ND	ND	ND
2-CHLOROTOLUENE	0.1	ND	ND	ND	ND	ND	ND
4-CHLORODOLUENE	0.1	ND	ND	ND	ND	ND	ND
1,3,5-TRIMETHYLBENZE	0.1	ND	ND	ND	ND	ND	ND
TERT-BUTYLBENZENE	0.1	ND	ND	ND	ND	ND	ND
1,2,4-TRIMETHYBENZENE	0.1	ND	ND	ND	ND	ND	ND
SEC-BUTYLBENZENE	0.1	ND	ND	ND	ND	ND	ND
1,3-DICHLOROBENZENE	0.1	ND	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	0.1	ND	ND	ND	ND	ND	ND
ISOPROPYLTOULENE	0.1	ND	ND	ND	ND	ND	ND
1,2-DICHLOROBENZENE	0.1	ND	ND	ND	ND	ND	ND
N-BUTYLBENZENE	0.1	ND	ND	ND	ND	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.1	ND	ND	ND	ND	ND	ND
1,2,4-TRICHLOROBENZENE	0.1	ND	ND	ND	ND	ND	ND
NAPHTHALENE	0.1	ND	ND	ND	ND	ND	ND
HEXACHLORO-1,3-BUTADIENE	0.1	ND	ND	ND	ND	ND	ND
1,2,3-TRICHLOROBENZENE	0.1	ND	ND	ND	ND	ND	ND

SOIL SEMI-VOLATILE ORGANIC COMPOUNDS BY METHOD 8270

SAMPLE-NUMBER	S-1-15	SOIL REPORTING
SAMPLE DATE	8/31/06	LIMITS
DEPTHS	15	
	mg/kg	mg/kg
ACENAPHTHENE	ND	0.1
ACENAPHTHYLENE	ND	0.1
ANTHRACENE	ND	0.1
BENZO(a)ANTHRACENE	ND	0.1
BENZO(a)PYRENE	ND	0.1
BENZO(ghi)PERYLENE	ND	0.1
BENZO(k)FLUORANTHENE	ND	0.1
CHRYSENE	ND	0.1
DIBENZO(a,h)ANTHRACENE	ND	0.1
FLUORENE	ND	0.1
FLUORANTHENE	ND	0.1
INDENO(1,2,3-cd PYRENE	ND	0.1
ANPHTHALENE	ND	0.1
1-METHYLNAPTHALENE	ND	0.1
2-METHYLNAPTHALENE	ND	0.1
PHENANTHRENE	ND	0.1
PYRENE	ND	0.1

SOIL PCB ANALYSES EPA METHOD 8082

SAMPLE-NUMBER	S-1-15	
SAMPLE DATE	8/31/06	
DEPTHS	15'	
		MDL
PCB-1016	ND	0.2
PCB-1221	ND	0.2
PCB-1232	ND	0.1
PCB-1242	ND	0.1
PCB-1248	ND	0.1
PCB-1254	ND	0.1
PCB-1260	ND	0.1

ANALYSES OF SOIL FOR SPECIFIC HALOGENATED HYDROCARBONS BY EPA 8260 CHLORINATED

SAMPLE-NUMBER		PB-3-8	S-1-15	PB2-4	DC1-8
SAMPLE DATE		8/31/06	8/31/06	8/31/06	8/31/06
DEPTH		8'	15'	4'	8'
	SOIL REPORTING LIMITS	mg/kg	mg/kg	mg/kg	mg/kg
DICHLORODIFLUOROMETHANE	0.05	ND	ND	ND	ND
CHLOROMETHANE	0.05	ND	ND	ND	ND
VINYL CHLORIDE	0.01	ND	ND	ND	ND
BROMOMETHANE	0.05	ND	ND	ND	ND
CHLOROETHANE	0.05	ND	ND	ND	ND
TRICHLOROFLUOROMETHANE	0.05	ND	ND	ND	ND
ACETONE	0.5	ND	ND	ND	ND
METHYLENE CHLORIDE	0.5	ND	ND	ND	ND
METHYL-T-BUTY ETHER (MTBE)	0.05	ND	ND	ND	ND
TRANS 1,1 DICHLOROETHENE	0.05	ND	ND	ND	ND
1,1 DICHLOROETHENE	0.5	ND	ND	ND	ND
TRANS-1,2-DICHLOROETHENE	0.05	ND	ND	ND	ND
1,1 DICHLOROETHANE	0.05	ND	ND	ND	ND
CIS-1,2 DICHLOROETHENE	0.05	ND	ND	ND	ND
2,2-DICHLOROPROPANE	0.05	ND	ND	ND	ND
CHLOROFORM	0.05	ND	ND	ND	ND
BROMOCHLOROMETHANE	0.05	ND	ND	ND	ND
1,1,1- TRICHLOROETHANE	0.05	ND	ND	ND	ND
1,2 DICHLOROETHANE	0.05	ND	ND	ND	ND
1,1-DICHLOROPROPENE	0.05	ND	ND	ND	ND
CARBON TETRACHLORIDE	0.05	ND	ND	ND	ND
BENZENE	0.02	ND	ND	ND	ND
TRICHLOROETHENE (TCE)	0.02	ND	ND	ND	ND
1,2-DICHLOROPROPANE	0.05	ND	ND	ND	ND
DIBROMOMETHANE	0.05	ND	ND	ND	ND
BROMODICHLOROMETHANE	0.05	ND	ND	ND	ND
4-METHYL-2-PENANONE	0.05	ND	ND	ND	ND
CIS-1,3-DICHLOROPROPENE	0.05	ND	ND	ND	ND
TOULENE	0.05	ND	ND	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.05	ND	ND	ND	ND
1,1,2,-TRICHLOROETHANE	0.05	ND	ND	ND	ND
2-HEXANONE	0.05	ND	ND	ND	ND
1,3-DICHLOROPROPANE	0.05	ND	ND	ND	ND
DIBROMOCHLOROMETHANE	0.05	ND	ND	ND	ND
TETRACHLOROETHENE (PCE)	0.02	0.16	ND	0.16	ND
1,2-DIBROMOETHANE (EDB)(*)	0.01	ND	ND	ND	ND
CHLOROBENZENE	0.05	ND	ND	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.05	ND	ND	ND	ND
ETHYLBENZENE	0.05	ND	ND	ND	ND
XYLENES	0.05	0.13	5.7	0.12	0.16

ANALYSES OF SOIL FOR SPECIFIC HALOGENATED HYDROCARBONS BY EPA 8260 CHLORINATED

SAMPLE-NUMBER		PB-3-8	S-1-15	PB2-4	DC1-8
SAMPLE DATE		8/31/06	8/31/06	8/31/06	8/31/06
DEPTH		8'	15'	4'	8'
	SOIL REPORTING LIMITS	mg/kg	mg/kg	mg/kg	mg/kg
STYRENE	0.05	ND	ND	ND	ND
BROMOFORM	0.05	ND	ND	ND	ND
1,1,2,2-TETRACHLOROETHANE	0.05	ND	ND	ND	ND
ISOPROPYLBENZENE	0.05	ND	5	ND	ND
1,2,3-TRICHCHLOROPROPANE	0.05	ND	ND	ND	ND
BROMOBENZENE	0.05	ND	ND	ND	ND
n-PROPYLBENZENE	0.05	ND	14	ND	ND
2-CHLOROTOLUENE	0.05	ND	ND	ND	ND
4-CHLORODOLUENE	0.05	ND	ND	ND	ND
1,3,5-TRIMETHYLBENZENE	0.05	ND	37	ND	ND
TERT-BUTYLBENZENE	0.05	ND	ND	ND	ND
1,2,4-TRIMETHYLBENZENE	0.05	ND	71	ND	ND
SEC-BUTYLBENZENE	0.05	ND	ND	ND	ND
1,3-DICHLOROBENZENE	0.05	ND	ND	ND	ND
1,4-DICHLOROBENZENE	0.05	ND	ND	ND	ND
ISOPROPYLTOLUENE	0.05	ND	2.3	ND	ND
1,2-DICHLOROBENZENE	0.05	ND	ND	ND	ND
n-BUTYLBENZENE	0.05	ND	6.2	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.05	ND	ND	ND	ND
1,2,4-TRICHLOROBENZENE	0.05	ND	ND	ND	ND
NAPHTHALENE	0.05	ND	ND	ND	ND
HEXACHLORO-1,3-BUTADIENE	0.05	ND	ND	ND	ND
1,2,3-TRICHLOROBENZENE	0.05	ND	ND	ND	ND

ANALYSES OF SOIL FOR SPECIFIC HALOGENATED HYDROCARBONS BY EPA 8260 CHLORINATED

Bakery (?)

SAMPLE-NUMBER		B-1 0'-2'	B-1 2'-3'	T-1 0'-1.75'
SAMPLE DATE		6/29/07	6/29/07	6/29/07
DEPTH		0'-2'	2'-3'	0'-1.75
	SOIL REPORTING LIMITS	mg/kg	mg/kg	mg/kg
DICHLORODIFLUOROMETHANE	0.05	ND	ND	ND
CHLOROMETHANE	0.05	ND	ND	ND
VINYL CHLORIDE	0.01	ND	ND	ND
CHLOROETHANE	0.05	ND	ND	ND
TRICHLOROFLUOROMETHANE	0.05	ND	ND	ND
METHYLENE CHLORIDE	0.05	ND	ND	ND
1,1 DICHLOROETHENE	0.5	ND	ND	ND
TRANS-1,2-DICHLOROETHENE	0.05	ND	ND	ND
1,1 DICHLOROETHANE	0.05	ND	ND	ND
CIS-1,2 DICHLOROETHENE	0.05	ND	ND	ND
2,2-DICHLOROPROPANE	0.05	ND	ND	ND
CHLOROFORM	0.05	ND	ND	ND
BROMOCHLOROMETHANE	0.05	ND	ND	ND
1,1,1- TRICHLOROETHANE	0.05	ND	ND	ND
1,2 DICHLOROETHANE	0.05	ND	ND	ND
1,1-DICHLOROPROPENE	0.05	ND	ND	ND
CARBON TETRACHLORIDE	0.05	ND	ND	ND
TRICHLOROETHENE (TCE)	0.02	ND	ND	ND
1,2-DICHLOROPROPANE	0.05	ND	ND	ND
BROMODICHLOROMETHANE	0.05	ND	ND	ND
CIS-1,3-DICHLOROPROPENE	0.05	ND	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.05	ND	ND	ND
1,1,2,-TRICHLOROETHANE	0.05	ND	ND	ND
1,3-DICHLOROPROPANE	0.05	ND	ND	ND
DIBROMOCHLOROMETHANE	0.05	ND	ND	ND
TETRACHLOROETHENE (PCE)	0.02	0.04	0.04	0.04
CHLOROBENZENE	0.05	ND	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.05	ND	ND	ND
1,1,2,2-TETRACHLOROETHANE	0.05	ND	ND	ND
1,2,3-TRICHCHLOROPROPANE	0.05	ND	ND	ND
2-CHLOROTOLUENE	0.05	ND	ND	ND
4-CHLORODOLUENE	0.05	ND	ND	ND
1,3-DICHLOROBENZENE	0.05	ND	ND	ND
1,4-DICHLOROBENZENE	0.05	ND	ND	ND
1,2-DICHLOROBENZENE	0.05	ND	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.05	ND	ND	ND
1,2,4-TRICHLOROBENZENE	0.05	ND	ND	ND
HEXACHLORO-1,3-BUTADIENE	0.05	ND	ND	ND
1,2,3-TRICHLOROBENZENE	0.05	ND	ND	ND

TITUS/THRIFTWAY

ANALYSES OF SOIL FOR TOTAL PETROLEUM HYDROCARBONS EPA METHOD NWTPH-Dx/Dx EXTENDED

SAMPLE NUMBER	SAMPLE DATE	DEPTH	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	GASOLINE	DIESEL	OIL	MINERAL OIL
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
S-1-15	8/31/06	15'	6.1	4.1	6	12	920	ND	ND	ND
S-2-15	8/31/06	15'	ND	ND	ND	ND	ND	ND	ND	ND
S-7-15	8/31/06	16'					360	ND	ND	ND
S-3-15	8/31/06	15'	ND	ND	ND	ND	ND	ND	ND	ND
S-4-15	8/31/06	15'	ND	ND	ND	ND	ND	ND	ND	ND
S-5-15	8/31/06	13'	ND	ND	ND	ND	ND	ND	ND	ND
S-6-8	8/31/06	8'	ND	ND	ND	ND	ND	ND	ND	ND
PB-3-8	8/31/06	8'	*	*	*	*	30	ND	ND	ND
NPL-6-20	8/31/06	20'	ND	ND	ND	ND	ND	ND	ND	ND
ESPL-24	8/31/06	24	ND	ND	ND	ND	ND	ND	ND	ND
WSPL-20	8/31/06	20'	ND	ND	ND	ND	ND	ND	ND	ND
NPL-1-21	8/31/06	21'	ND	ND	ND	ND	ND	ND	ND	ND
NPL-2-19	8/31/06	19'	ND	ND	ND	ND	ND	ND	ND	ND
NPL-3-19	8/31/06	19'	ND	ND	ND	ND	ND	ND	ND	ND
NPL-4-19	8/31/06	19'	ND	ND	ND	ND	ND	ND	ND	ND
NPL-5-20	8/31/06	20'	ND	ND	ND	ND	ND	ND	ND	ND
IB2-6	8/31/06	6'	ND	ND	ND	ND	ND	ND	94	ND
SECPB-8	8/31/06	8'	ND	ND	ND	ND	ND	ND	ND	ND
S PALS-1	9/18/06	23.5'	*	*	*	*	ND	ND	ND	ND
DC PLAS-2	9/18/06	18.5-20'	*	*	*	*	ND	ND	ND	ND
IB4	10/20/06	60"	*	*	*	*	ND	ND	ND	ND
PBWE	10/20/06	24"	*	*	*	*	ND	ND	87	ND
PBLS-24	10/20/06	24"	*	*	*	*	ND	ND	ND	ND
PBLS-36	10/20/06	36"	*	*	*	*	ND	ND	ND	ND
ALS-1	10/20/06	32"	*	*	*	*	ND	ND	220	ND
DSS-1	10/20/06	36"	*	*	*	*	ND	ND	ND	ND
PBRS	10/20/06	30"	*	*	*	*	ND	ND	ND	ND
MDL			0.02	0.05	0.05	0.05	10	30	40	40

* = Not analyzed

30 200 2000 4000

ANALYSES OF SOIL FOR SPECIFIC HALOGENATED HYDROCARBONS BY EPA 8260

SAMPLE-NUMBER		D-6	D-15	15ND-10	D-10
SAMPLE DATE		2/3-9/08	2/3-9/08	2/3-9/08	2/3-9/08
	SOIL REPORTING LIMITS	mg/kg	mg/kg	mg/kg	mg/kg
DICHLORODIFLUOROMETHANE	1	ND	ND	ND	ND
CHLOROMETHANE	1	ND	ND	ND	ND
VINYL CHLORIDE	0.2	ND	ND	ND	ND
BROMOMETHANE	1	ND	ND	ND	ND
CHLOROETHANE	1	ND	ND	ND	ND
TRICHLOROFLUOROMETHANE	1	ND	ND	ND	ND
ACETONE	10	ND	ND	ND	ND
METHYLENE CHLORIDE	10	ND	ND	ND	ND
1,1 DICHLOROETHENE	1	ND	ND	ND	ND
METHYL-T-BUTYL ETHER (MTBE)	1	ND	ND	ND	ND
TRANS-1,2-DICHLOROETHENE	1	ND	ND	ND	ND
1,1 DICHLOROETHANE	1	ND	ND	ND	ND
2-BUTANONE (MEK)	10	ND	ND	ND	ND
CIS-1,2 DICHLOROETHENE	1	ND	ND	ND	ND
2,2-DICHLOROPROPANE	1	ND	ND	ND	ND
CHLOROFORM	1	ND	ND	ND	ND
BROMOCHLOROMETHANE	1	ND	ND	ND	ND
1,1,1- TRICHLOROETHANE	1	ND	ND	ND	ND
1,2 DICHLOROETHANE (EDC)	1	ND	ND	ND	ND
1,1-DICHLOROPROPENE	1	ND	ND	ND	ND
CARBON TETRACHLORIDE	1	ND	ND	ND	ND
BENZENE	1	ND	ND	ND	ND
TRICHLOROETHENE (TCE)	1	ND	ND	ND	ND
1,2-DICHLOROPROPANE	1	ND	ND	ND	ND
DIBROMOMETHANE	1	ND	ND	ND	ND
BROMODICHLOROMETHANE	1	ND	ND	ND	ND
4-METHYL-2-PENTANONE (MIBK)	1	ND	ND	ND	ND
CIS-1,3-DICHLOROPROPENE	1	ND	ND	ND	ND
TRANS-1,3-DICHLOROPROPENE	1	ND	ND	ND	ND
TOULENE	1	ND	ND	ND	ND
TRANS-1,3-DICHLOROPROPENE	1	ND	ND	ND	ND
1,1,2,-TRICHLOROETHANE	1	ND	ND	ND	ND
2-HEXANONE	1	ND	ND	ND	ND

ANALYSES OF SOIL FOR SPECIFIC HALOGENATED HYDROCARBONS BY EPA 8260

SAMPLE-NUMBER		D-6	D-15	15ND-10	D-10
DATE		2/3-9/08	2/3-9/08	2/3-9/08	2/3-9/08
	SOIL REPORTING LIMITS	mg/kg	mg/kg	mg/kg	mg/kg
1,3-DICHLOROPROPANE	1	ND	ND	ND	ND
DIBROMOCHLOROMETHANE	1	ND	ND	ND	ND
TETRACHLOROETHENE (PCE)	1	ND	ND	ND	ND
1,2-DIBROMOETHANE	0.1	ND	ND	ND	ND
CHLOROBENZENE	1	ND	ND	ND	ND
1,1,1,2-TETRACHLOROETHANE	1	ND	ND	ND	ND
ETHYLBENZENE	1	ND	ND	ND	ND
XYLENES	1	ND	ND	ND	ND
STYRENE	1	ND	ND	ND	ND
BROMOFORM	1	ND	ND	ND	ND
1,1,2,2-TETRACHLOROETHANE	1	ND	ND	ND	ND
ISOPROPYLBENZENE	1	ND	ND	ND	ND
,2,3-TRICHCHLOROPROPANE	1	ND	ND	ND	ND
BROMOBENZENE	1	ND	ND	ND	ND
N-PROPYLBENZE	1	ND	ND	ND	ND
2-CHLOROTOLUENE	1	ND	ND	ND	ND
4-CHLORODOLUENE	1	ND	ND	ND	ND
1,3,5-TRIMETHYLBENZE	1	ND	ND	ND	ND
TERT-BUTYLBENZENE	1	ND	ND	ND	ND
1,2,4-TRIMETHYBENZENE	1	ND	ND	ND	ND
SEC-BUTYLBENZENE	1	ND	ND	ND	ND
1,3-DICHLOROBENZENE	1	ND	ND	ND	ND
1,4-DICHLOROBENZENE	1	ND	ND	ND	ND
ISOPROPYLTOULENE	1	ND	ND	ND	ND
1,2-DICHLOROBENZENE	1	ND	ND	ND	ND
N-BUTYLBENZENE	1	ND	ND	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	1	ND	ND	ND	ND
1,2,4-TRICHLOROBENZENE	1	ND	ND	ND	ND
NAPHTHALENE	1	ND	ND	ND	ND
HEXACHLORO-1,3-BUTADIENE	1	ND	ND	ND	ND
1,2,3-TRICHLOROBENZENE	1	ND	ND	ND	ND

ANALYSES OF SOIL FOR SPECIFIC HALOGENATED HYDROCARBONS BY EPA 8260

SAMPLE-NUMBER		TS-1	TS-2	50ND-16	15ND-16	20ND-8	20ND-16
SAMPLE DATE		7/24/07	7/24/07	2/3-9/08	2/3-9/08	2/3-9/08	2/3-9/08
	SOIL REPORTING LIMITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DICHLORODIFLUOROMETHANE	1	ND	ND	ND	ND	ND	ND
CHLOROMETHANE	1	ND	ND	ND	ND	ND	ND
VINYL CHLORIDE	0.2	ND	ND	ND	ND	ND	ND
BROMOMETHANE	1	ND	ND	ND	ND	ND	ND
CHLOROETHANE	1	ND	ND	ND	ND	ND	ND
TRICHLOROFLUOROMETHANE	1	ND	ND	ND	ND	ND	ND
ACETONE	10	ND	ND	ND	ND	ND	ND
METHYLENE CHLORIDE	10	ND	ND	ND	ND	ND	ND
1,1 DICHLOROETHENE	1	ND	ND	ND	ND	ND	ND
METHYL-T-BUTYL ETHER (MTBE)	1	ND	ND	ND	ND	ND	ND
TRANS-1,2-DICHLOROETHENE	1	ND	ND	ND	ND	ND	ND
1,1 DICHLOROETHANE	1	ND	ND	ND	ND	ND	ND
2-BUTANONE (MEK)	10	ND	ND	ND	ND	ND	ND
CIS-1,2 DICHLOROETHENE	1	ND	ND	ND	ND	ND	ND
2,2-DICHLOROPROPANE	1	ND	ND	ND	ND	ND	ND
CHLOROFORM	1	ND	ND	ND	ND	ND	ND
BROMOCHLOROMETHANE	1	ND	ND	ND	ND	ND	ND
1,1,1- TRICHLOROETHANE	1	ND	ND	ND	ND	ND	ND
1,2 DICHLOROETHANE (EDC)	1	ND	ND	ND	ND	ND	ND
1,1-DICHLOROPROPENE	1	ND	ND	ND	ND	ND	ND
CARBON TETRACHLORIDE	1	ND	ND	ND	ND	ND	ND
BENZENE	1	ND	ND	ND	ND	ND	ND
TRICHLOROETHENE (TCE)	1	ND	ND	ND	ND	ND	ND
1,2-DICHLOROPROPANE	1	ND	ND	ND	ND	ND	ND
DIBROMOMETHANE	1	ND	ND	ND	ND	ND	ND
BROMODICHLOROMETHANE	1	ND	ND	ND	ND	ND	ND
4-METHYL-2-PENTANONE (MIBK)	1	ND	ND	ND	ND	ND	ND
CIS-1,3-DICHLOROPROPENE	1	ND	ND	ND	ND	ND	ND
TRANS-1,3-DICHLOROPROPENE	1	ND	ND	ND	ND	ND	ND
TOULENE	1	ND	ND	ND	ND	ND	ND
TRANS-1,3-DICHLOROPROPENE	1	ND	ND	ND	ND	ND	ND
1,1,2,-TRICHLOROETHANE	1	ND	ND	ND	ND	ND	ND
2-HEXANONE	1	ND	ND	ND	ND	ND	ND

'ALYSES OF SOIL FOR SPECIFIC HALOGENATED
HYDROCARBONS BY EPA 8260

SAMPLE-NUMBER		TS-1	TS-2	50ND-16	15ND-16	20ND-8	20ND-16
SAMPLE DATE		7/24/07	7/24/07	2/3-9/08	2/3-9/08	2/3-9/08	2/3-9/08
	SOIL REPORTING LIMITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
1,3-DICHLOROPROPANE	1	ND	ND	ND	ND	ND	ND
DIBROMOCHLOROMETHANE	1	ND	ND	ND	ND	ND	ND
TETRACHLOROETHENE (PCE)	1	ND	ND	ND	ND	ND	ND
1,2-DIBROMOETHANE	0.1	ND	ND	ND	ND	ND	ND
CHLOROBENZENE	1	ND	ND	ND	ND	ND	ND
1,1,1,2-TETRACHLOROETHANE	1	ND	ND	ND	ND	ND	ND
ETHYLBENZENE	1	ND	ND	ND	ND	ND	ND
XYLENES	1	ND	ND	ND	ND	ND	ND
STYRENE	1	ND	ND	ND	ND	ND	ND
BROMOFORM	1	ND	ND	ND	ND	ND	ND
1,1,2,2-TETRACHLOROETHANE	1	ND	ND	ND	ND	ND	ND
ISOPROPYLBENZENE	1	ND	ND	ND	ND	ND	ND
,2,3-TRICHCHLOROPROPANE	1	ND	ND	ND	ND	ND	ND
BROMOBENZENE	1	ND.	ND	ND	ND	ND	ND
N-PROPYLBENZE	1	ND	ND	ND	ND	ND	ND
2-CHLOROTOLUENE	1	ND	ND	ND	ND	ND	ND
4-CHLORODOLUENE	1	ND	ND	ND	ND	ND	ND
1,3,5-TRIMETHYLBENZE	1	ND	ND	ND	ND	ND	ND
TERT-BUTYLBENZENE	1	ND	ND	ND	ND	ND	ND
1,2,4-TRIMETHYBENZENE	1	ND	ND	ND	ND	ND	ND
SEC-BUTYLBENZENE	1	ND	ND	ND	ND	ND	ND
1,3-DICHLOROBENZENE	1	ND	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	1	ND	ND	ND	ND	ND	ND
ISOPROPYLTOULENE	1	ND	ND	ND	ND	ND	ND
1,2-DICHLOROBENZENE	1	ND	ND	ND	ND	ND	ND
N-BUTYLBENZENE	1	ND	ND	ND	ND	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	1	ND	ND	ND	ND	ND	ND
1,2,4-TRICHLOROBENZENE	1	ND	ND	ND	ND	ND	ND
NAPHTHALENE	1	ND	ND	ND	ND	ND	ND
HEXACHLORO-1,3-BUTADIENE	1	ND	ND	ND	ND	ND	ND
1,2,3-TRICHLOROBENZENE	1	ND	ND	ND	ND	ND	ND

ANALYSES OF SOIL FOR SPECIFIC HALOGENATED HYDROCARBONS BY EPA 8260 CHLORINATED

SAMPLE-NUMBER		F-12	F-20	R-12	R-18
SAMPLE DATE		7/31/07	7/31/07	7/31/07	7/31/07
	SOIL REPORTING LIMITS	mg/kg	mg/kg	mg/kg	mg/kg
DICHLORODIFLUOROMETHANE	0.05	ND	ND	ND	ND
CHLOROMETHANE	0.05	ND	ND	ND	ND
VINYL CHLORIDE	0.01	ND	ND	ND	ND
CHLOROETHANE	0.05	ND	ND	ND	ND
TRICHLOROFLUOROMETHANE	0.05	ND	ND	ND	ND
METHYLENE CHLORIDE	0.05	ND	ND	ND	ND
1,1 DICHLOROETHENE	0.5	ND	ND	ND	ND
TRANS-1,2-DICHLOROETHENE	0.05	ND	ND	ND	ND
1,1 DICHLOROETHANE	0.05	ND	ND	ND	ND
CIS-1,2 DICHLOROETHENE	0.05	ND	ND	0.06	ND
2,2-DICHLOROPROPANE	0.05	ND	ND	ND	ND
CHLOROFORM	0.05	ND	ND	ND	ND
BROMOCHLOROMETHANE	0.05	ND	ND	ND	ND
1,1,1- TRICHLOROETHANE	0.05	ND	ND	ND	ND
1,2 DICHLOROETHANE	0.05	ND	ND	ND	ND
1,1-DICHLOROPROPENE	0.05	ND	ND	ND	ND
CARBON TETRACHLORIDE	0.05	ND	ND	ND	ND
TRICHLOROETHENE (TCE)	0.02	ND	ND	0.28	0.85
1,2-DICHLOROPROPANE	0.05	ND	ND	ND	ND
BROMODICHLOROMETHANE	0.05	ND	ND	ND	ND
4-METHYL-2-PENTANONE (MIBK)	0.05	ND	ND	ND	ND
CIS-1,3-DICHLOROPROPENE	0.05	ND	ND	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.05	ND	ND	ND	ND
1,1,2,-TRICHLOROETHANE	0.05	ND	ND	ND	ND
1,3-DICHLOROPROPANE	0.05	ND	ND	ND	ND
DIBROMOCHLOROMETHANE	0.05	ND	ND	ND	ND
TETRACHLOROETHENE (PCE)	0.02	1.5	2.1	1.9	18
CHLOROBENZENE	0.05	ND	ND	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.05	ND	ND	ND	ND
1,1,2,2-TETRACHLOROETHANE	0.05	ND	ND	ND	ND
1,2,3-TRICHCHLOROPROPANE	0.05	ND	ND	ND	ND
2-CHLOROTOLUENE	0.05	ND	ND	ND	ND
4-CHLORODOLUENE	0.05	ND	ND	ND	ND
1,3-DICHLOROBENZENE	0.05	ND	ND	ND	ND
1,4-DICHLOROBENZENE	0.05	ND	ND	ND	ND
1,2-DICHLOROBENZENE	0.05	ND	ND	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.05	ND	ND	ND	ND
1,2,4-TRICHLOROBENZENE	0.05	ND	ND	ND	ND
HEXACHLORO-1,3-BUTADIENE	0.05	ND	ND	ND	ND
1,2,3-TRICHLOROBENZENE	0.05	ND	ND	ND	ND

ANALYSES OF WATER FOR SPECIFIC HALOGENATED HYDROCARBONS BY EPA 8260 CHLORINATED

SAMPLE-NUMBER		Bakery B-1
SAMPLE DATE		4/29/07
DEPTH		0-6"
	WATER REPORTING LIMITS	ug/L
DICHLORODIFLUOROMETHANE	1	ND
CHLOROMETHANE	1	ND
VINYL CHLORIDE	0.2	ND
CHLOROETHANE	1	ND
TRICHLOROFLUOROMETHANE	1	ND
METHYLENE CHLORIDE	10	ND
1,1 DICHLOROETHENE	1	ND
TRANS-1,2-DICHLOROETHENE	1	ND
1,1 DICHLOROETHANE	1	ND
CIS-1,2 DICHLOROETHENE	1	8.7
2,2-DICHLOROPROPANE	1	ND
CHLOROFORM	1	30
BROMOCHLOROMETHANE	1	ND
1,1,1- TRICHLOROETHANE	1	ND
1,2 DICHLOROETHANE	1	ND
1,1-DICHLOROPROPENE	1	ND
CARBON TETRACHLORIDE	1	ND
TRICHLOROETHENE (TCE)	1	5.6
1,2-DICHLOROPROPANE	1	ND
BROMODICHLOROMETHANE	1	1.5
CIS-1,3-DICHLOROPROPENE	1	ND
TRANS-1,3-DICHLOROPROPENE	1	ND
1,1,2,-TRICHLOROETHANE	1	ND
1,3-DICHLOROPROPANE	1	ND
DIBROMOCHLOROMETHANE	1	ND
TETRACHLOROETHENE (PCE)	1	52
CHLOROBENZENE	1	ND
1,1,1,2-TETRACHLOROETHANE	1	ND
1,1,2,2-TETRACHLOROETHANE	1	ND
1,2,3-TRICHCHLOROPROPANE	1	ND
2-CHLOROTOLUENE	1	ND
4-CHLORODOLUENE	1	ND
1,3-DICHLOROBENZENE	1	ND
1,4-DICHLOROBENZENE	1	ND
1,2-DICHLOROBENZENE	1	ND
1,2-DIBROMO-3-CHLOROPROPANE	1	ND
1,2,4-TRICHLOROBENZENE	1	ND
HEXACHLORO-1,3-BUTADIENE	1	ND
1,2,3-TRICHLOROBENZENE	1	ND

ANALYSES OF WATER FOR SPECIFIC HALOGENATED HYDROCARBONS BY EPA 8260 CHLORINATED

SAMPLE-NUMBER		PW-1	STREET WATER
SAMPLE DATE		7/11/07	7/12/07
	WATER REPORTING LIMITS	ug/L	ug/L
DICHLORODIFLUOROMETHANE	1	ND	ND
CHLOROMETHANE	1	ND	ND
VINYL CHLORIDE	0.2	0.51	ND
CHLOROETHANE	1	ND	ND
TRICHLOROFLUOROMETHANE	1	ND	ND
METHYLENE CHLORIDE	10	ND	ND
1,1 DICHLOROETHENE	1	ND	ND
TRANS-1,2-DICHLOROETHENE	1	ND	ND
1,1 DICHLOROETHANE	1	ND	ND
CIS-1,2 DICHLOROETHENE	1	24	ND
2,2-DICHLOROPROPANE	1	ND	ND
CHLOROFORM	1	48	20
BROMOCHLOROMETHANE	1	ND	ND
1,1,1- TRICHLOROETHANE	1	ND	ND
1,2 DICHLOROETHANE	1	ND	ND
1,1-DICHLOROPROPENE	1	ND	ND
CARBON TETRACHLORIDE	1	ND	ND
TRICHLOROETHENE (TCE)	1	17	ND
1,2-DICHLOROPROPANE	1	ND	ND
BROMODICHLOROMETHANE	1	2.3	ND
4-METHYL-2-PENTANONE (MIBK)	1		4.8
CIS-1,3-DICHLOROPROPENE	1	ND	ND
TRANS-1,3-DICHLOROPROPENE	1	ND	ND
1,1,2,-TRICHLOROETHANE	1	ND	ND
1,3-DICHLOROPROPANE	1	ND	ND
DIBROMOCHLOROMETHANE	1	ND	ND
TETRACHLOROETHENE (PCE)	1	1,700	ND
CHLOROBENZENE	1	ND	ND
1,1,1,2-TETRACHLOROETHANE	1	ND	ND
1,1,2,2-TETRACHLOROETHANE	1	ND	ND
1,2,3-TRICHCHLOROPROPANE	1	ND	ND
2-CHLOROTOLUENE	1	ND	ND
4-CHLORODOLUENE	1	ND	ND
1,3-DICHLOROBENZENE	1	ND	ND
1,4-DICHLOROBENZENE	1	ND	ND
1,2-DICHLOROBENZENE	1	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	1	ND	ND
1,2,4-TRICHLOROBENZENE	1	ND	ND
HEXACHLORO-1,3-BUTADIENE	1	ND	ND
1,2,3-TRICHLOROBENZENE	1	ND	ND

WATER ANALYSES FOR TOTAL PETROLEUM HYDROCARBONS
METHOD NWTPH-Gx AND NWTPH-Dx/Dx EXTENDED

SAMPLE NUMBER	SAMPLE DATE	P DEPTH	GASOLINE	DIESEL	OIL	MINERAL OIL
			ug/L	ug/L	ug/L	ug/L
S PLAS-1-2-W	9/18/08	50'	ND	ND	ND	ND
DC PLAS-2-W	9/18/08	49'	ND	ND	ND	ND
MDL			100	200	400	400

WATER HEAVY METALS EPA-7000 SERIES

SAMPLE NUMBER	DATE	P DEPTH	METHOD SW846 741 DISSOLVED LEAD	METHOD EPA 200.7 LEAD
			ug/L	ug/L
S PLAS-1-2-W	9/18/08	50'	<1	1800
DC PLAS-2-W	9/18/08	49'	<1	1000

LEAD WATER ANALYSES BY EPA 239.2

SAMPLE NUMBER	SAMPLE DATE	LEAD BY GFAA
MW-1	4/1/08	<1
MW-2	4/1/08	<1

ANALYSES OF SOIL FOR TOTAL PETROLEUM HYDROCARBONS EPA METHOD NWTPH-Dx/Dx EXTENDED

SAMPLE NUMBER	SAMPLE DATE	DEPTH	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	GASOLINE	DIESEL	OIL	MINERAL OIL
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
S-1-15	8/31/06	15'	6.1	4.1	6	12	920	ND	ND	ND
S-2-15	8/31/06	15'	ND	ND	ND	ND	ND	ND	ND	ND
S-7-15	8/31/06	16'					360	ND	ND	ND
S-3-15	8/31/06	15'	ND	ND	ND	ND	ND	ND	ND	ND
S-4-15	8/31/06	15'	ND	ND	ND	ND	ND	ND	ND	ND
S-5-15	8/31/06	13'	ND	ND	ND	ND	ND	ND	ND	ND
S-6-8	8/31/06	8'	ND	ND	ND	ND	ND	ND	ND	ND
PB-3-8	8/31/06	8'	*	*	*	*	30	ND	ND	ND
NPL-6-20	8/31/06	20'	ND	ND	ND	ND	ND	ND	ND	ND
ESPL-24	8/31/06	24	ND	ND	ND	ND	ND	ND	ND	ND
WSPL-20	8/31/06	20'	ND	ND	ND	ND	ND	ND	ND	ND
NPL-1-21	8/31/06	21'	ND	ND	ND	ND	ND	ND	ND	ND
NPL-2-19	8/31/06	19'	ND	ND	ND	ND	ND	ND	ND	ND
NPL-3-19	8/31/06	19'	ND	ND	ND	ND	ND	ND	ND	ND
NPL-4-19	8/31/06	19'	ND	ND	ND	ND	ND	ND	ND	ND
NPL-5-20	8/31/06	20'	ND	ND	ND	ND	ND	ND	ND	ND
IB2-6	8/31/06	6'	ND	ND	ND	ND	ND	ND	94	ND
SECPB-8	8/31/06	8'	ND	ND	ND	ND	ND	ND	ND	ND
S PALS-1	9/18/06	23.5'	*	*	*	*	ND	ND	ND	ND
DC PLAS-2	9/18/06	18.5-20'	*	*	*	*	ND	ND	ND	ND
IB4	10/20/06	60"	*	*	*	*	ND	ND	ND	ND
PBWE	10/20/06	24"	*	*	*	*	ND	ND	87	ND
PBLS-24	10/20/06	24"	*	*	*	*	ND	ND	ND	ND
PBLS-36	10/20/06	36"	*	*	*	*	ND	ND	ND	ND
ALS-1	10/20/06	32"	*	*	*	*	ND	ND	220	ND
DSS-1	10/20/06	36"	*	*	*	*	ND	ND	ND	ND
PBRS	10/20/06	30"	*	*	*	*	ND	ND	ND	ND
MDL			0.02	0.05	0.05	0.05	10	30	40	40

* = Not analyzed

ALYSES OF WATER FOR SPECIFIC HALOGENATED HYDROCARBONS BY EPA 8260

SAMPLE-NUMBER		GW-7	GW-8
SAMPLE DATE		5/8/08	5/8/08
	WATER REPORTING LIMITS	ug/L	ug/L
DICHLORODIFLUOROMETHANE	1	ND	ND
CHLOROMETHANE	1	ND	ND
VINYL CHLORIDE	0.2	ND	ND
BROMOMETHANE	1	ND	ND
CHLOROETHANE	1	ND	ND
TRICHLOROFLUOROMETHANE	1	ND	ND
ACETONE	10	ND	ND
METHYLENE CHLORIDE	10	ND	ND
1,1 DICHLOROETHENE	1	ND	ND
METHYL-T-BUTYL ETHER (MTBE)	1	ND	ND
TRANS-1,2-DICHLOROETHENE	1	ND	ND
1,1 DICHLOROETHANE	1	ND	ND
2-BUTANONE (MEK)	10	ND	ND
CIS-1,2 DICHLOROETHENE	1	ND	7.9
2,2-DICHLOROPROPANE	1	ND	ND
CHLOROFORM	1	ND	ND
BROMOCHLOROMETHANE	1	ND	ND
1,1,1- TRICHLOROETHANE	1	ND	ND
1,2 DICHLOROETHANE (EDC)	1	ND	ND
1,1-DICHLOROPROPENE	1	ND	ND
CARBON TETRACHLORIDE	1	ND	ND
BENZENE	1	ND	ND
TRICHLOROETHENE (TCE)	1	33	21
1,2-DICHLOROPROPANE	1	ND	ND
DIBROMOMETHANE	1	ND	ND
BROMODICHLOROMETHANE	1	ND	ND
4-METHYL-2-PENTANONE (MIBK)	1	ND	ND
CIS-1,3-DICHLOROPROPENE	1	ND	ND
TRANS-1,3-DICHLOROPROPENE	1	ND	ND
TOULENE	1	ND	ND
TRANS-1,3-DICHLOROPROPENE	1	ND	ND
1,1,2,-TRICHLOROETHANE	1	ND	ND
2-HEXANONE	1	ND	ND

/ \LYSES OF WATER FOR SPECIFIC HALOGENATED HYDROCARBONS BY EPA 8260

SAMPLE-NUMBER		GW-7	GW-8
SAMPLE DATE		5/8/08	5/8/08
	WATER REPORTING LIMITS	ug/L	ug/L
1,3-DICHLOROPROPANE	1	ND	ND
DIBROMOCHLOROMETHANE	1	ND	ND
TETRACHLOROETHENE (PCE)	1	13,000	1,300
1,2-DIBROMOETHANE	0.1	ND	ND
CHLOROBENZENE	1	ND	ND
1,1,1,2-TETRACHLOROETHANE	1	ND	ND
ETHYLBENZENE	1	ND	ND
XYLENES	1	ND	ND
STYRENE	1	ND	ND
BROMOFORM	1	ND	ND
1,1,2,2-TETRACHLOROETHANE	1	ND	ND
ISOPROPYLBENZENE	1	ND	ND
ı,2,3-TRICHCHLOROPROPANE	1	ND	ND
BROMOBENZENE	1	ND	ND
N-PROPYLBENZE	1	ND	ND
2-CHLOROTOLUENE	1	ND	ND
4-CHLORODOLUENE	1	ND	ND
1,3,5-TRIMETHYLBENZE	1	ND	ND
TERT-BUTYLBENZENE	1	ND	ND
1,2,4-TRIMETHYBENZENE	1	ND	ND
SEC-BUTYLBENZENE	1	ND	ND
1,3-DICHLOROBENZENE	1	ND	ND
1,4-DICHLOROBENZENE	1	ND	ND
ISOPROPYLTOULENE	1	ND	ND
1,2-DICHLOROBENZENE	1	ND	ND
N-BUTYLBENZENE	1	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	1	ND	ND
1,2,4-TRICHLOROBENZENE	1	ND	ND
NAPHTHALENE	1	ND	ND
HEXACHLORO-1,3-BUTADIENE	1	ND	ND
1,2,3-TRICHLOROBENZENE	1	ND	ND

ALYSES OF WATER FOR SPECIFIC HALOGENATED
HYDROCARBONS BY EPA 8260

SAMPLE-NUMBER		MW-1	MW-2	MW-5	MW-7
SAMPLE DATE		8/28/07	8/28/07	1/22/08	1/22/08
	WATER REPORTING LIMITS	ug/L	ug/L	ug/L	ug/L
DICHLORODIFLUOROMETHANE	1	ND	ND	ND	ND
CHLOROMETHANE	1	ND	ND	ND	ND
VINYL CHLORIDE	0.2	ND	19	ND	ND
BROMOMETHANE	1	ND	ND	ND	ND
CHLOROETHANE	1	ND	8.1	ND	ND
TRICHLOROFLUOROMETHANE	1	ND	ND	ND	ND
ACETONE	10	ND	ND	ND	ND
METHYLENE CHLORIDE	10	ND	ND	ND	ND
1,1 DICHLOROETHENE	1	ND	ND	ND	ND
METHYL-T-BUTYL ETHER (MTBE)	1	ND	ND	ND	ND
TRANS-1,2-DICHLOROETHENE	1	ND	7.4	ND	ND
1,1 DICHLOROETHANE	1	ND	ND	ND	ND
2-BUTANONE (MEK)	10	ND	ND	ND	ND
CIS-1,2 DICHLOROETHENE	1	ND	7,100	13	ND
2,2-DICHLOROPROPANE	1	ND	ND	ND	ND
CHLOROFORM	1	ND	ND	2.1	ND
BROMOCHLOROMETHANE	1	ND	ND	ND	ND
1,1,1- TRICHLOROETHANE	1	ND	ND	ND	ND
1,2 DICHLOROETHANE (EDC)	1	ND	ND	ND	ND
1,1-DICHLOROPROPENE	1	ND	ND	ND	ND
CARBON TETRACHLORIDE	1	ND	ND	3.3	ND
BENZENE	1	2.2	1,800	ND	ND
TRICHLOROETHENE (TCE)	1	ND	ND	3	ND
1,2-DICHLOROPROPANE	1	ND	ND	ND	ND
DIBROMOMETHANE	1	ND	ND	ND	ND
BROMODICHLOROMETHANE	1	ND	ND	ND	ND
4-METHYL-2-PENTANONE (MIBK)	1	ND	ND	ND	ND
CIS-1,3-DICHLOROPROPENE	1	ND	ND	ND	ND
TRANS-1,3-DICHLOROPROPENE	1	ND	ND	ND	ND
TOULENE	1	ND	ND	ND	ND
TRANS-1,3-DICHLOROPROPENE	1	ND	ND	ND	ND
1,1,2,-TRICHLOROETHANE	1	ND	ND	ND	ND
2-HEXANONE	1	ND	ND	ND	ND

These results not consistent with 1/30/08 sampling round. Also not consistent with high [PCE] and non-detect TEX.

ANALYSES OF WATER FOR SPECIFIC HALOGENATED HYDROCARBONS BY EPA 8260

SAMPLE-NUMBER		MW-1	MW-2	MW-5	MW-7
SAMPLE DATE		8/28/07	8/28/07	1/22/08	1/22/2008
	WATER REPORTING LIMITS	ug/L	ug/L	ug/L	ug/L
1,3-DICHLOROPROPANE	1	ND	ND	ND	ND
DIBROMOCHLOROMETHANE	1	ND	ND	ND	ND
TETRACHLOROETHENE (PCE)	1	1.3	2,900	67	6.6
1,2-DIBROMOETHANE	0.1	ND	ND	ND	ND
CHLOROBENZENE	1	ND	ND	ND	ND
1,1,1,2-TETRACHLOROETHANE	1	ND	ND	ND	ND
ETHYLBENZENE	1	ND	ND	ND	ND
XYLENES	1	ND	ND	ND	ND
STYRENE	1	ND	ND	ND	ND
BROMOFORM	1	ND	ND	ND	ND
1,1,2,2-TETRACHLOROETHANE	1	ND	ND	ND	ND
ISOPROPYLBENZENE	1	ND	ND	ND	ND
,2,3-TRICHCHLOROPROPANE	1	ND	ND	ND	ND
BROMOBENZENE	1	ND	ND	ND	ND
N-PROPYLBENZE	1	ND	ND	ND	ND
2-CHLOROTOLUENE	1	ND	ND	ND	ND
4-CHLORODOLUENE	1	ND	ND	ND	ND
1,3,5-TRIMETHYLBENZE	1	ND	ND	ND	ND
TERT-BUTYLBENZENE	1	ND	ND	ND	ND
1,2,4-TRIMETHYBENZENE	1	ND	ND	ND	ND
SEC-BUTYLBENZENE	1	ND	ND	ND	ND
1,3-DICHLOROBENZENE	1	ND	ND	ND	ND
1,4-DICHLOROBENZENE	1	ND	ND	ND	ND
ISOPROPYLTOULENE	1	ND	ND	ND	ND
1,2-DICHLOROBENZENE	1	ND	ND	ND	ND
N-BUTYLBENZENE	1	ND	ND	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	1	ND	ND	ND	ND
1,2,4-TRICHLOROBENZENE	1	ND	ND	ND	ND
NAPHTHALENE	1	ND	ND	ND	ND
HEXACHLORO-1,3-BUTADIENE	1	ND	ND	ND	ND
1,2,3-TRICHLOROBENZENE	1	ND	ND	ND	ND

ALYSES OF WATER FOR SPECIFIC HALOGENATED
HYDROCARBONS BY EPA 8260

SAMPLE-NUMBER		MW-1	MW-2	MW-5	MW-7	MW-8
SAMPLE DATE		1/30/08	1/30/08	1/30/08	1/30/08	4/22/08
	WATER REPORTING LIMITS	ug/L	ug/L	ug/L	ug/L	ug/L
DICHLORODIFLUOROMETHANE	1	ND	ND	ND	ND	ND
CHLOROMETHANE	1	ND	ND	ND	ND	ND
VINYL CHLORIDE	0.2	ND	ND	ND	ND	ND
BROMOMETHANE	1	ND	ND	ND	ND	ND
CHLOROETHANE	1	ND	ND	ND	ND	ND
TRICHLOROFLUOROMETHANE	1	ND	ND	ND	ND	ND
ACETONE	10	ND	ND	ND	ND	ND
METHYLENE CHLORIDE	10	ND	ND	ND	ND	ND
1,1 DICHLOROETHENE	1	ND	ND	ND	ND	ND
METHYL-T-BUTYL ETHER (MTBE)	1	ND	ND	ND	ND	ND
TRANS-1,2-DICHLOROETHENE	1	ND	3	ND	ND	6.3
1,1 DICHLOROETHANE	1	ND	ND	ND	ND	ND
2-BUTANONE (MEK)	10	ND	ND	ND	ND	ND
CIS-1,2 DICHLOROETHENE	1	ND	2,000	4.5	ND	2,400
2,2-DICHLOROPROPANE	1	ND	ND	ND	ND	ND
CHLOROFORM	1	ND	2.5	1.8	ND	2.5
BROMOCHLOROMETHANE	1	ND	ND	ND	ND	ND
1,1,1- TRICHLOROETHANE	1	ND	ND	ND	ND	ND
1,2 DICHLOROETHANE (EDC)	1	ND	ND	ND	ND	ND
1,1-DICHLOROPROPENE	1	ND	ND	ND	ND	ND
CARBON TETRACHLORIDE	1	ND	ND	2	1.5	ND
BENZENE	1	ND	ND	ND	ND	ND
TRICHLOROETHENE (TCE)	1	ND	520	1.1	ND	780
1,2-DICHLOROPROPANE	1	ND	ND	ND	ND	ND
DIBROMOMETHANE	1	ND	ND	ND	ND	ND
BROMODICHLOROMETHANE	1	ND	ND	ND	ND	ND
4-METHYL-2-PENTANONE (MIBK)	1	ND	ND	ND	ND	ND
CIS-1,3-DICHLOROPROPENE	1	ND	ND	ND	ND	ND
TRANS-1,3-DICHLOROPROPENE	1	ND	ND	ND	ND	ND
TOULENE	1	ND	ND	ND	ND	ND
TRANS-1,3-DICHLOROPROPENE	1	ND	ND	ND	ND	ND
1,1,2,-TRICHLOROETHANE	1	ND	ND	ND	ND	ND
2-HEXANONE	1	ND	ND	ND	ND	ND

ALYSES OF WATER FOR SPECIFIC HALOGENATED HYDROCARBONS BY EPA 8260

SAMPLE-NUMBER		MW-1	MW-2	MW-5	MW-7	MW-8
SAMPLE DATE		1/30/08	1/30/08	1/30/08	1/30/08	4/22/08
	WATER REPORTING LIMITS	ug/L	ug/L	ug/L	ug/L	ug/L
1,3-DICHLOROPROPANE	1	ND	ND	ND	ND	ND
DIBROMOCHLOROMETHANE	1	ND	ND	ND	ND	ND
TETRACHLOROETHENE (PCE)	1	ND	1,400	31	1.5	1,300
1,2-DIBROMOETHANE	0.1	ND	ND	ND	ND	ND
CHLOROBENZENE	1	ND	ND	ND	ND	ND
1,1,1,2-TETRACHLOROETHANE	1	ND	ND	ND	ND	ND
ETHYLBENZENE	1	ND	ND	ND	ND	ND
XYLENES	1	ND	ND	ND	ND	ND
STYRENE	1	ND	ND	ND	ND	ND
BROMOFORM	1	ND	ND	ND	ND	ND
1,1,2,2-TETRACHLOROETHANE	1	ND	ND	ND	ND	ND
ISOPROPYLBENZENE	1	ND	ND	ND	ND	ND
1,2,3-TRICHCHLOROPROPANE	1	ND	ND	ND	ND	ND
BROMOBENZENE	1	ND	ND	ND	ND	ND
N-PROPYLBENZE	1	ND	ND	ND	ND	ND
2-CHLOROTOLUENE	1	ND	ND	ND	ND	ND
4-CHLORODOLUENE	1	ND	ND	ND	ND	ND
1,3,5-TRIMETHYLBENZE	1	ND	ND	ND	ND	ND
TERT-BUTYLBENZENE	1	ND	ND	ND	ND	ND
1,2,4-TRIMETHYBENZENE	1	ND	ND	ND	ND	ND
SEC-BUTYLBENZENE	1	ND	ND	ND	ND	ND
1,3-DICHLOROBENZENE	1	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	1	ND	ND	ND	ND	ND
ISOPROPYLTOULENE	1	ND	ND	ND	ND	ND
1,2-DICHLOROBENZENE	1	ND	ND	ND	ND	ND
N-BUTYLBENZENE	1	ND	ND	ND	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	1	ND	ND	ND	ND	ND
1,2,4-TRICHLOROBENZENE	1	ND	ND	ND	ND	ND
NAPHTHALENE	1	ND	ND	ND	ND	ND
HEXACHLORO-1,3-BUTADIENE	1	ND	ND	ND	ND	ND
1,2,3-TRICHLOROBENZENE	1	ND	ND	ND	ND	ND