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Report to:

**SHELL CANADA PRODUCTS**

**Phase II Environmental Site  
Assessment  
Shell Retail No. C05875  
Oakville, Ontario**

Document No. 0813480101-REP-V0001-00

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Report to:

## SHELL CANADA PRODUCTS

# PHASE II ENVIRONMENTAL SITE ASSESSMENT SHELL RETAIL NO. C05875 OAKVILLE, ONTARIO

SEPTEMBER 2008

Prepared by  Date September 25, 2008

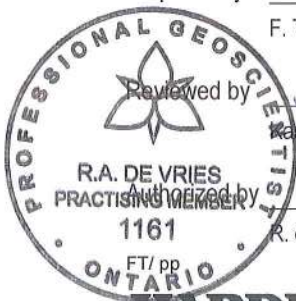
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REVISION HISTORY

REV. NO	ISSUE DATE	PREPARED BY AND DATE	REVIEWED BY AND DATE	APPROVED BY AND DATE	DESCRIPTION OF REVISION

# PHASE II ESA SUMMARY SHEET

Type of Facility	Former Shell Canada Products Service Station
Date of Assessment Activities on Site	December 17 and 18, 2007 – Borehole Drilling and Monitor Installations (BH1-BH6). January 7 and 8, 2008 – Ground Water Purging and Ground Water Sampling (BH1 – BH6). April 3, 2008 – Borehole Drilling and Monitor Installations (BH7 – BH8). April 7, 2008 – Ground Water Purging and Ground Water Sampling (BH7 – BH8). May 6, 2008 – Ground Water Monitoring and Surveying (BH1 - BH8).
Number of Boreholes Drilled	Eight (8)
Number of Wells Installed in Boreholes	Eight ( 8)
Type of Organic Vapour Meter (OVM)	Gastector 1238 (methane elimination mode).
Aquifer Usage 100 m Radius	On and south of Site (currently not in use), north of the Site (private residences).

BOREHOLE	BH1	BH2	BH3	BH4
Well Installed	Yes	Yes	Yes	Yes
Depth Drilled (mbg)	4.9	5.0	4.3	4.3
Soil Type	Silty clay, shale	Clay, silt, sand/ shale	Clay, silt, sand/ shale	Clay, silt, sand/ shale
Depth of Shale Bedrock (mbg)	4.6	4.6	4.0	4.3
Dominant Fill Soil Type	Silty clay	Granular Base below asphalt	Granular Base below asphalt, silty clay	Granular Base below asphalt
Dominant Native Soil Type	Silty clay, shale	Silty clay, shale	Silty clay, shale	Silty clay, shale
Homogeneous	Yes	Yes	Yes	Yes
Depth to Water or Free Product (mbtop/mbg)	3.38/3.54	2.95/3.08	0.11/0.32	0.81/0.95
Screen Interval of Well (mbg)	1.3 – 4.3	1.3 – 4.4	0.8 – 3.8	0.6 – 3.6
Exceeds Selected Soil Standards				
Table 2	No	Yes	Yes	Yes
Table 3	No	No	Yes	No
Exceeds Selected Water Standards				
Table 2	No	Yes	Yes	Yes
Table 3	No	No	No	No
Free Product Thickness in Monitoring Well (cm)	0	0	0	0
Shown on Figure	3, 5, and 6	3, 5, and 6	3, 5, and 6	3, 5, and 6

**WARDROP**

BOREHOLE	BH5	BH6	BH7	BH8
Well Installed	Yes	Yes	Yes	Yes
Depth Drilled (mbg)	5.0	4.4	4.4	4.4
Soil Type	Clay, silt, sand/ shale	Clay, silt, sand/ shale	Clay, silt, sand/ shale	Clay, silt, sand/ shale
Depth of Shale Bedrock (mbg)	4.7	4.4	4.4	4.4
Dominant Fill Soil Type	Granular Base below asphalt, clay	Granular Base below asphalt	Granular Base below asphalt	Silty clay
Dominant Native Soil Type	Silty clay, shale	Silty clay, shale	Silty clay, shale	Silty Clay, shale
Homogeneous	Yes	Yes	Yes	Yes
Depth to Water or Free Product (mbtop/mbg)	2.74/2.85	0.29/0.41	0.95/1.11	0.96/1.06
Screen Interval of Well (mbg)	1.3 – 4.3	0.6 - 3.7	0.6 – 3.7	0.6- 3.7
Exceeds Selected Soil Standards				
Table 2	Yes	Yes	No	No
Table 3	No	Yes	No	No
Exceeds Selected Water Standards				
Table 2	Yes	Yes	Yes	No
Table 3	No	No	No	No
Free Product Thickness in Monitoring Well (cm)	0	0	0	0
Shown on Figure	3, 5, and 6	3, 5, and 6	3, 5, and 6	3, 5, and 6

**Abbreviations:** (mbg) = metre below grade; (mbtop) = metres below top of pipe; (cm) = centimetres.

## EXECUTIVE SUMMARY

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Under the authorization of Shell Canada Products (Shell), Wardrop Engineering Inc. conducted a Phase II Environmental Site Assessment at the former Shell retail gas bar located at 3005 Dundas Street West, in the Town of Oakville, Ontario (herein referred to as the "Site").

The assessment activities were conducted in two phases between December 17, 2007, and May 6, 2008.

The primary objective of the work was to provide an assessment of the Site conditions with respect to possible petroleum hydrocarbon impact at the Site by drilling eight boreholes and sampling soil and groundwater. The Site was assessed in accordance with the requirements of *Ontario Regulation 153/04*, Ministry of the Environment (MOE) Table 2 Full Depth Generic Site Condition Standards for commercial land use and medium and fine textured soils.

On December 17 and 18, 2008, six boreholes (BH1 – BH6) were drilled at the Site. On April 3, 2008, two additional boreholes (BH7 and BH8) were drilled to depths of 4.4 mbg. Groundwater monitoring wells were installed in all boreholes.

The site stratigraphy encountered in the eight boreholes predominantly consisted of a silty clay overburden in depths ranging from 4.0 to 4.7 metres below grade (mbg) overlying shale bedrock. All boreholes were terminated at refusal within competent shale bedrock as per the predetermined work scope.

Groundwater in the overburden was encountered at depths ranging from 0.11 to 3.85 mbg in the monitoring wells. There was evidence of perched water in areas where the fine-textured native soil was disturbed (i.e., related to site structures and equipment such as underground storage tanks) during both these monitoring events. Due to this, consistent groundwater flow direction could not be reliably interpreted. Based on local groundwater studies however, it is expected that groundwater flows to the south and east, towards tributaries of Fourteen Mile creek which are located at a distance greater than 100 m of the site. Groundwater is currently used in the area as a source of potable water by private well owners east of the Site.

Petroleum impact resulting in soil and groundwater exceedences, when compared to the MOE Table 2 Standards for potable groundwater conditions, were identified in five of the eight boreholes.

# TABLE OF CONTENTS

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<b>1.0</b>	<b>INTRODUCTION AND OBJECTIVE.....</b>	<b>1</b>
<b>2.0</b>	<b>BACKGROUND INFORMATION.....</b>	<b>2</b>
2.1	SITE SETTING .....	2
2.2	PREVIOUS ENVIRONMENTAL INVESTIGATIONS.....	2
<b>3.0</b>	<b>SELECTION OF ASSESSMENT STANDARDS.....</b>	<b>5</b>
3.1	ENVIRONMENTALLY SENSITIVE AREAS .....	5
3.2	LAND USE.....	6
3.3	GEOLOGY AND GROUNDWATER .....	6
3.4	FULL DEPTH VERSUS STRATIFIED CONDITION STANDARDS .....	7
3.5	SOIL DESCRIPTIONS.....	7
<b>4.0</b>	<b>FIELD ACTIVITIES.....</b>	<b>8</b>
4.1	BOREHOLE DRILLING AND SOIL SAMPLING .....	8
4.2	GROUNDWATER MONITORING AND SAMPLING .....	10
4.3	SURVEYING.....	11
<b>5.0</b>	<b>RESULTS .....</b>	<b>12</b>
5.1	SOIL LABORATORY RESULTS .....	12
5.2	GROUNDWATER MONITORING AND LABORATORY RESULTS.....	12
<b>6.0</b>	<b>SUMMARY.....</b>	<b>14</b>
<b>7.0</b>	<b>LIMITATIONS .....</b>	<b>15</b>

FIGURES

TABLES

APPENDIX A:	SITE PHOTOGRAPHS
APPENDIX B:	BOREHOLE LOGS
APPENDIX C:	LABORATORY DATA PACKAGE
APPENDIX D:	SAMPLING METHODOLOGY
APPENDIX E:	WASTE MANIFESTS
APPENDIX F:	MOE WELL RECORDS
APPENDIX G:	SOIL AND GROUNDWATER SAMPLE QUALITY ASSURANCE/QUALITY CONTROL

## LIST OF FIGURES

---

- Figure 1: Site Plan Location – Oakville, Shell Retail No. C05875
- Figure 2: Local Land Use Plan - Shell Retail No. C05875
- Figure 3: Site Plan - Shell Retail No. C05875
- Figure 4: Soil Laboratory Data - Shell Retail No. C05875
- Figure 5: Groundwater Elevations and Laboratory Data - Shell Retail No. C05875
- Figure 6: Standard Selection Flow Chart - Shell Retail No. C05875

## LIST OF TABLES

---

- Table 1: Historic Groundwater Laboratory Analysis (Drilled Water Well and Washroom Tap) – Petroleum Hydrocarbon Parameters
- Table 2: Grain Size and pH Analyses
- Table 3: Summary of Soil Laboratory Analyses, Petroleum Hydrocarbon Parameters
- Table 4: Summary of Soil Laboratory Analyses, Polycyclic Aromatic Hydrocarbons (PAHs)
- Table 5: Summary of Soil Laboratory Analyses, Volatile Organic Compounds (VOCs)
- Table 6: Summary of Soil Laboratory Analyses, Regulation 558/00 TCLP Leachate Analysis
- Table 7: Monitoring and Survey Data, January 8, 2008
- Table 8: Monitoring and Survey Data, May 6, 2008
- Table 9: Summary of Groundwater Laboratory Analyses, Petroleum Hydrocarbon Parameters
- Table 10: Summary of Groundwater Laboratory Analyses, Volatile Organic compounds (VOCs)



## 1.0 INTRODUCTION AND OBJECTIVE

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Under the authorization of Shell, Wardrop conducted a Phase II Environmental Site Assessment at the former retail gas bar located at 3005 Dundas Street West, in the Town of Oakville, Ontario.

The objective of the work was to provide a preliminary assessment of the soil and groundwater conditions at the Site with respect to possible petroleum hydrocarbon impact by drilling eight boreholes to the top of the shale bedrock anticipated to be encountered at a depth of between 3 - 5 mbg.

The standards to assess the Site conditions are provided in the *Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*, published by the Ministry of Environment (MOE), dated March 9, 2004. The standards were selected using *Ontario Regulation 153/04* made under the Environmental Protection Act.

The assessment activities were conducted in two phases between December 17, 2007, and May 6, 2008.

## 2.0 BACKGROUND INFORMATION

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### 2.1 SITE SETTING

The Site is located on the northwest corner of Old Bronte Road and Dundas Street West, in the Town of Oakville, Ontario. The geographical location is shown on Figure 1. The Site is situated in an area of mixed, low-density, light-commercial and residential land use. A local land use plan showing Site setting and neighbouring land use has been included as Figure 2.

At the time of this Phase II Environmental Site Assessment (ESA), the Site had been closed since late 2007 and consisted of:

- A former service station building with storage area for waste disposal.
- Three product dispensers located on two concrete islands, all sheltered by an overhead canopy and associated kiosk.
- Five 22 730-L capacity steel underground storage tanks (USTs), reportedly installed in or around 1974 and only used for the storage of gasoline.
- A water well and septic system.

The remainder of the Site consisted of asphalt pavement and landscaped areas. The listed Site features are shown on Figure 3. Current Site photographs and an aerial photograph showing the site setting (prior to the reconstruction of the Bronte Road/Old Bronte Road and Dundas Street West intersection) are included as Appendix A.

Electricity and telephone utilities were supplied via underground services. Groundwater was used as a source of non-potable water for washroom facilities only, at the Site. A septic tank bed is located behind the former service station building at the north end of the Site. The area around the Site is serviced by a municipal storm sewer system.

### 2.2 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

A Phase I ESA of the Site was conducted by Jacques Whitford Environment Limited, dated February 27, 1998. A summary of this report is given below:

- The Site was constructed in the mid-1960s prior to which the property was undeveloped.

- The Site had remained a Shell retail fuel outlet since it was built.
- A review of a 1974 site survey plan, a 1975 site plan and a 1967 Fire Insurance plan revealed that a significant modification was made to the Site in the mid-1970s. A review of these drawings also revealed the former presence of underground fuel storage tanks and associated distribution pumps and lines on the western portion of the Site and the former presence of a service station located in the current location of the pump islands and kiosk on the subject property.
- Shell records indicated the presence of underground waste oil and fuel oil storage tanks, the presence of which could not be confirmed at the Site.

A previous Environmental Site Assessment was conducted by Barenco Inc. in 1992 to evaluate the potential impact of product loss into the ground that occurred in 1991 from an underground gasoline pipe on the Site. During this assessment it was found that levels of benzene, toluene, ethylbenzene and total xylenes (BTEX) were detected in the groundwater around the Site.

A Site cleanup was conducted by Barenco Inc. in 1992, to mitigate the contamination caused by the 1991 product loss. The Barenco report stated that in 1991, liquid gasoline in the subsurface was identified in an excavation proximal to the fill pipes for the north and south tanks, during the installation of spill containers for the five underground storage tanks. A recovery well was placed at the west end of the southerly storage tank and was pumped to lower the water table and collect the liquid gasoline. It was estimated that about 1200 L of liquid gasoline was recovered. After this event, an active gasoline skimmer pumping system was operating in the recovery well. After one week of operation, an insignificant amount of gasoline was pumped from the recovery well and the system was disconnected. The location of the trench and recovery well are shown on Figures 3, 4, and 5.

The above mentioned reports summarize Site history, Site features, historical remedial work conducted on the Site and potential sources of concern. These reports provided a useful basis for the Phase II ESA. The information was used to position the eight boreholes planned as part of this Phase II ESA.

On October 12, 2007, as part of Wardrop's semiannual Water and Sewer Assessment Program for Shell's "off-highway" facilities, the drilled water well at the Site was assessed for BTEX and petroleum hydrocarbon fractions F1 to F4. Detectable concentrations of BTEX constituents and petroleum hydrocarbon fraction F1 were reported during this sampling event. All concentrations, except for ethylbenzene, were below the MOE Table 2 standards. A hydrocarbon odour was noted to be emanating from the tap water in the washroom facility during this sampling event. Previous sampling events did not detect any exceedences in water samples taken from the drilled well.

## WARDROP

As a follow-up action, a confirmatory sampling program was undertaken on October 24, 2007. Three water samples were collected; one directly from the drilled well, one from the tap in the washroom before purging and one from the tap in the washroom after purging for approximately 45 minutes at approximately 20 Litres/minute. Water samples collected were analysed for BTEX and petroleum hydrocarbon fractions F1 to F4 concentrations. Analytical results from the confirmatory sampling indicated at least one or more concentrations of ethylbenzene, xylenes and petroleum hydrocarbon fractions F1+F2 exceeded the applicable MOE Table 2 standards in all three samples. The cause of the impact has not yet been confirmed.

No visible free product was present in the collected water samples. However, during purging, an apparent hydrocarbon odour was still emanating from the tap water. Historical data for this program from 2006 and 2007 is presented in Table 1 and shown on Figure 5.

As a result of this program Shell has undertaken a separate environmental site assessment program to study this facility in greater detail.

Based on the historical information mentioned above and supplemented with updated Site information supplied by Shell, it was determined that the potential contaminants of concern for this Phase II Environmental Site Assessment were BTEX and petroleum hydrocarbon fractions F1 to F4. In specific areas of the site additional testing was conducted to determine the concentrations of the following potential contaminants of concern: polyaromatic hydrocarbons (PAHs), volatile organic compounds (VOCs) (including Methyl tert-Butyl Ether (MTBE)) and lead.

## 3.0 SELECTION OF ASSESSMENT STANDARDS

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A detailed assessment standards selection process was conducted in accordance with the requirements of *Ontario Regulation (O. Reg.) 153/04* made under the Environmental Protection Act. MOE Table 2 Full Depth Generic Site Condition Standards for commercial land use and medium and fine textured soils apply at the Site. The rationale to support this selection is based on the information provided in Sections 3.1 to 3.5. A standards selection flowchart is shown on Figure 6.

### 3.1 ENVIRONMENTALLY SENSITIVE AREAS

Potential environmentally sensitive areas are those which meet any of the following conditions and includes the subject Site and any affected site(s):

- The property is within an area of natural significance, or includes or is adjacent to such an area or part of such an area. Area of natural significance means any of the following:
  - A provincial park designated by a regulation under the Provincial Parks Act.
  - A conservation reserve established under the Public Lands Act.
  - An area of natural and scientific interest (life science) identified by the Ministry of Natural Resources as having provincial significance.
  - A wetland identified by the Ministry of Natural Resources as having provincial significance.
  - An area designated by a municipality in its official plan as environmentally significant; however expressed, including designations of areas as environmentally sensitive, as being of environmental concern and as being ecologically significant.
  - An area designated as an escarpment natural area or an escarpment protection area by the Niagara Escarpment Plan under the Niagara Escarpment Planning and Development Act.
  - A habitat of endangered or threatened species identified by the Ministry of Natural Resources.
  - Property within an area designated as a natural core area or natural linkage area within the area to which the Oak Ridges Moraine Conservation Plan under the Oak Ridges Moraine Conservation Act, 2001 applies.

The Site is not located in any of these areas.

## WARDROP

- The property is a shallow soil property.

There are more than 2 m of overburden soil in the study area. Therefore, the property is not a shallow soil property.

- The soil at the property has a pH less than five or greater than nine for surface soils and/or less than five or greater than 11 for subsurface soils.

Soil pH from one surface (0.8 – 1.4 mbg) and one subsurface (2.3 – 2.9 mbg) soil samples were laboratory measured. The laboratory analysis results indicated that the pH concentrations for the two samples ranged from 7.33 to 7.78.

Therefore, the surface soil at the Site has a pH greater than five and less than nine and the subsurface soil at the Site has a pH greater than five and less than 11. Soil pH analysis results are presented in Table 2.

- The property includes or is adjacent to a water body or includes land that is within 30 m of a water body.

The nearest body of water is a tributary to Fourteen Mile creek located 200 m east of the Site.

Based on this data, the Site is not considered a sensitive site.

### 3.2 LAND USE

The current land use is commercial and the future land use is expected to remain commercial.

### 3.3 GEOLOGY AND GROUNDWATER

Based on published geological information of the area (Quaternary Geology of Ontario, Southern Sheet, *Ontario Ministry of Northern Development and Mines*, Sheet No. 2556), the native stratigraphy consists of Halton Till; predominantly silt to silty clay matrix high in matrix carbonate content and clast poor. The topography of the Site is relatively flat. The nearest body of water is a tributary of Fourteen Mile Creek, located approximately 200 m east of the Site which drains south into Lake Ontario, located approximately 7.5 km south of the Site.

Groundwater is used as a source for potable water in the general area. Private wells on the Site and at adjacent and nearby residences were noted. The well on Site is currently not in use.

### 3.4 FULL DEPTH VERSUS STRATIFIED CONDITION STANDARDS

The full depth Site condition Standard was applied.

### 3.5 SOIL DESCRIPTIONS

The soil type in the area, beneath the existing surface cover, is comprised of a granular base with shallow fill layers of sand, gravel, and silty clay, overlying shale bedrock. Refer to the borehole logs in Appendix B.

One soil sample representing at least one-third of the Site's overburden was collected at a depth of 2.3 – 2.9 mbg and was submitted for grain size analysis. The soil descriptions were consistent throughout the Site. The results of the analysis indicated that greater than 50% by mass of particles were finer than 75 µm in mean diameter in the sample analyzed, indicating medium and fine textured soil conditions. The result of the grain size analysis is reported in Table 2 and a copy of the result is included as part of the Certificates of Analysis in Appendix C.

## 4.0 FIELD ACTIVITIES

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Field methods were conducted in general accordance with the MOE *Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*, dated December 1996. A detailed description of the sampling methodology used during these assessment activities is included in Appendix D.

Based on the history of the Site as well as information collected during the assessment process, selected soil and groundwater samples were submitted to Maxxam Analytics Inc. (Maxxam), Mississauga, Ontario, for laboratory analysis of BTEX and petroleum hydrocarbon fractions F1 to F4 and for one or more of PAHs, VOCs, and lead. Maxxam is accredited by the Standards Council of Canada (SCC) and the Canadian Association of Environmental Analytical Laboratories (CAEAL) for all analyses that were conducted.

### 4.1 BOREHOLE DRILLING AND SOIL SAMPLING

On December 17 and 18, 2008, six boreholes (BH1 – BH6) were drilled at the Site. The boreholes were drilled using a truck-mounted CME-75 drill rig supplied and operated by Geo-Environmental Drilling Inc. (GEDI) of Milton, Ontario.

On April 3, 2008, two additional boreholes (BH7 and BH8) were drilled using day lighting first via MOE licensed hydro vacuum trucks to a depth of 2.1 mbg. Soil sampling at these two sampling locations were completed with a stainless steel hand auger sampler. The hydro vacuum trucks were supplied and operated by Direct Line Environmental Services (Direct Line) of Pickering, Ontario. The two boreholes (BH7 and BH8) were then completed using a track-mounted CME-55 drill rig supplied and operated by GEDI. All boreholes were advanced to refusal at the surface of, or slightly into the shale bedrock.

Where possible, based on sample recoveries in the split spoons, organic vapour meter (OVM) readings were measured in the headspace of the bagged soil samples with a Gastech Model 1238 ME gas detector in parts per million (ppm) or as a percentage of the lower explosive limit (% LEL) of equivalent hexane vapour. The OVM was set to screen out a response to the presence of methane. The OVM was calibrated with hexane prior to use. OVM readings in BH1- BH8 ranging from nondetectable (ND) to 5% LEL were measured in the soil sample headspaces.



Eight "worst case" ("worst case" soil samples are based on OVM readings and visual and olfactory evidence of petroleum impact) soil samples were collected from the boreholes for laboratory analysis of BTEX and petroleum hydrocarbon fractions F1 to F4 from all boreholes. Where petroleum hydrocarbon impacted zones were identified in the boreholes (BH2, BH3, BH5, and BH6), based on elevated field organic vapour concentrations, "clean bottom" soil samples were also submitted. In the area of BH1, BH7 and BH8, near the site service station building and where a former furnace fuel tank was reported, soil analysis included one or more of PAHs, VOCs, and lead. The maximum soil sampling depth of the boreholes ranged between 4.0 and 4.7 mbg.

The borehole locations are shown on Figures 3, 4, and 5 as BH1 to BH8.

One selected soil sample from the petroleum-impacted soil cuttings was submitted for *Regulation 558/00* TCLP analyses for relevant parameters to facilitate the possible off-site disposal of this material at a later date. The drill cuttings were stored temporarily in a bin. Once the disposal approvals for this material were obtained, the cuttings were transported off-site for disposal at Newalta in Stoney Creek, Ontario, as a nonhazardous solid waste.

Groundwater monitoring wells were installed in all boreholes as shown on Figures 3, 4, and 5. The groundwater monitoring wells were installed to depths ranging between 3.6 to 4.4 mbg, and were constructed with 50 mm inside diameter polyvinyl chloride (PVC) slotted pipe connected to a solid PVC riser pipe. Where possible, a minimum of 0.3 m of clean silica sand pack (K&E #0) was placed at the bottom of the boreholes prior to installing the monitoring wells. A clean silica sand pack (K&E #0) was placed in the annulus of the boreholes surrounding the screened portion of the monitoring wells to a minimum of 0.3 m above the screened portion of the monitoring wells. The annulus above the filter pack was sealed with bentonite and the wells were protected at grade with a flush-mount cast iron casing. A detailed description of groundwater monitoring well installation methodology is described under Sampling Methodology in Appendix D.

The borehole logs, including soil descriptions, soil sampling depths and well construction information are presented in Appendix B.

Upon completion of the drilling program, as per the requirements of *Regulation 903* (as amended by *Ontario Reg. 128/03*), GEDI reported to Wardrop that they had sent the Water Well Records for the well clusters to the MOE. Borehole BH3 was tagged with Well Tag No. A062541 for the December 17 and 18, 2007 drilling event. Borehole BH7 was tagged with Well Tag No. A054647 for the April 7, 2008 drilling event. Copies of the MOE Water Well Records are included in Appendix F.

## 4.2 GROUNDWATER MONITORING AND SAMPLING

On January 8, 2008, the Site was visited to complete well monitoring activities. The Site activities included the measurement of well headspace OVM readings and fluid levels in the monitoring wells installed in BH1 – BH6. Seven water samples, including one field duplicate sample, were collected from the monitoring wells for laboratory analysis of BTEX, petroleum hydrocarbon fractions F1 to F4, VOCs (BH3, BH4, and BH6 only) and lead (BH3, BH4, and BH6 only). Prior to sampling, three well volumes of groundwater were purged from each monitoring well. Groundwater was recovered using dedicated water sampling equipment consisting of 16 mm outside diameter polyethylene tubing attached to a ball-type check valve assembly. All lead samples were field filtered using an inline disposable 0.45 µm groundwater filter.

The groundwater samples were placed into sealed laboratory prepared bottles and vials, labelled, and stored in coolers, with ice, at temperatures less than 10°C. The laboratory prepared trip blank and trip spike samples for quality assurance and quality control (QA/QC) purposes and field-prepared field blank sample (FB), accompanied the groundwater sample sets.

Purge water was temporarily stored in barrels on site and subsequently removed under manifest (RT-19782-2) using waste generator number ON9096008 by Enviroway Waste Management of Maple Ontario, Ontario, to a licensed waste receiver (refer to Appendix E for a copy of the waste manifest).

On April 7, 2008, two water samples were collected from the newly installed monitoring wells BH7 and BH8 for laboratory analysis of BTEX, petroleum hydrocarbon fractions F1 to F4, MTBE and lead. Prior to sampling, three well volumes of groundwater were purged from each monitoring well. Groundwater was recovered using dedicated water sampling equipment consisting of 16 mm outside diameter polyethylene tubing attached to a ball-type check valve assembly. All lead samples were field filtered using an inline disposable 0.45 µm groundwater filter.

On May 6, 2008, the Site was visited to complete well monitoring activities. The Site activities included the measurement of well headspace OVM readings and fluid levels in the monitoring wells installed in BH1 – BH8.

### 4.3 SURVEYING

On January 8, 2008, horizontal and vertical surveys were completed for well locations BH1 to BH6. On May 6, 2008, the newly installed boreholes (BH7 and BH8) were surveyed along with BH1 to BH6, which were resurveyed during this event. The elevations of ground surface and top of the riser pipe of all monitoring wells were surveyed relative to an arbitrary datum (top center of man hole located in the grass boulevard at southeast corner of the Site) with an assumed elevation of 100.000 m.

## 5.0 RESULTS

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### 5.1 SOIL LABORATORY RESULTS

Selected borehole soil samples were submitted to Maxxam for laboratory analysis of BTEX, petroleum hydrocarbon fractions F1 to F4, metals including lead, and semi-volatile organics, including PAH analyses. Furthermore, one (1) soil sample was collected from the soil cuttings, and submitted to Maxxam for laboratory analysis of the Toxicity Characteristic Leaching Procedure (TCLP) specified by the MOE under *Ontario Regulation 558/00*.

At least one soil sample collected from boreholes BH2, BH3, BH4, BH5 and BH6 showed exceedences for one or more of BTEX and petroleum hydrocarbon fractions F1 to F3, when compared to MOE Table 2 standards. No exceedences were detected in the soil samples collected from boreholes BH1, BH7 and BH8. The laboratory bulk analysis results are included in Tables 3 to 5 and shown on Figure 4. The laboratory Certificates of Analysis are included in Appendix C.

The laboratory analysis results for the MOE *Ontario Regulation 558/00* leachate analysis are included in Table 6 and the laboratory Certificate of Analysis is presented in Appendix C. The results of the sampled soil indicated that the soil would be classified as nonhazardous material if managed as waste.

No issues with laboratory analysis, sample shipping, sample preservation or field sampling techniques that should have a material effect on the interpretation of the reported soil sample results, were identified as part of the QA/QC program. Details of the QA/QC program are discussed in Appendix G.

### 5.2 GROUNDWATER MONITORING AND LABORATORY RESULTS

On January 8, 2008, the Site was visited to complete well monitoring activities. The Site activities included the measurement of well headspace OVM readings and fluid levels in the monitoring wells installed in BH1 – BH6. Groundwater levels in the monitoring wells were measured at depths ranging from 0.23 mbg in monitoring well BH3 to 3.85 mbg in monitoring well BH5. Free product was not detected using a hydrocarbon interface sensor in any of the wells. It should be noted that the measured water level in BH3 was above the well screen during this monitoring event which may prevent proper detection of free product. The monitoring data for this event is presented in Table 7.

On May 6, 2008, the Site was visited to complete well monitoring activities. The Site activities included the measurement of well headspace OVM readings and fluid levels in the monitoring wells installed in BH1 – BH8. Groundwater levels in the monitoring wells were measured at depths ranging from 0.11 mbg in monitoring well BH3 to 3.38 mbg in monitoring well BH1. Free product was not detected using a hydrocarbon interface sensor in any of the wells. It should be noted that the measured water levels in BH3 and BH6 were above the well screen during this monitoring event which may prevent proper detection of free product. The monitoring data for this event is presented in Table 8.

Due to the variability of groundwater elevations, likely caused by the disruption of native overburden (areas including underground tank nest and piping conduits, etc.), a reliable interpretation of groundwater flow direction could not be determined. The water level elevations in BH1, BH2, and BH5 appear more indicative of typical groundwater elevations in native overburden. The 'North Oakville East Subwatersheds Study' (Town of Oakville) notes that "regional groundwater flow is southeastwards towards Lake Ontario, although locally, the flow is influenced by local creek valleys." It is expected that local groundwater flow is generally to the south, towards the local tributaries of the Fourteen Mile creek.

Seven groundwater samples, including one field duplicate sample from the January 8, 2008, sampling event and two groundwater samples from the April 7, 2008, sampling event, were submitted to Maxxam for laboratory analysis of BTEX, petroleum hydrocarbon fractions F1 to F4, lead (BH3, BH4, BH6, BH7 and BH8 only), MTBE (BH7 and BH8 only) and VOCs (BH3, BH4, and BH6 only). In addition, field quality control samples (field blanks, trip blanks, and trip spikes) were submitted, as required.

Groundwater samples collected from monitoring wells BH2, BH3, BH4, BH5, BH6, and BH7 showed exceedences for one or more of BTEX, MTBE, and petroleum hydrocarbon fraction F1 + F2, when compared to MOE Table 2 standards. No exceedences were detected in any of the groundwater samples collected from monitoring wells BH1 and BH8. The laboratory analysis results are included in Tables 9 and 10 and shown on Figure 5. The laboratory Certificates of Analysis are included in Appendix C.

No issues with laboratory analysis, sample shipping, sample preservation or field sampling techniques that should have a material effect on the interpretation of the reported groundwater sample results, were identified as part of the QA/QC program. Details of the QA/QC program are discussed in Appendix G.

## 6.0 SUMMARY

---

Based on the foregoing Phase II Environmental Site Assessment, the following can be summarized:

- The Site was assessed in accordance with the requirements of Ontario Regulation 153/04 made under Part XV.1 of the Environmental Protection Act. Although MOE Table 2 Full Depth Generic Site Condition Standards for commercial land use and medium and fine textured soils currently apply at the Site, the area is becoming municipally serviced as development proceeds. As such, for discussion purposes, we have also compared the results to the respective MOE Table 3 Standards.
- On December 17 and 18, 2008, six boreholes (BH1 – BH6) were drilled at the Site. On April 3, 2008, two additional boreholes (BH7 and BH8) were drilled using day lighting first via MOE licensed hydro vacuum trucks to a depth of 2.1 mbg. The two boreholes (BH7 and BH8) were then drilled to depths of 4.4 mbg.
- Groundwater monitoring wells were installed in all boreholes to depths ranging between 3.6 to 4.4 mbg.
- Groundwater in the overburden was encountered at depths ranging from 0.23 to 3.85 mbg in monitoring wells BH1 to BH6 during the January 8, 2008, monitoring event, and 0.11 to 3.38 mbg in monitoring wells BH1 to BH8 during the May 6, 2008, monitoring event. There was evidence of perched water in areas where the fine-textured native soil was disturbed (i.e., related to site structures and equipment such as underground storage tanks) during both these monitoring events. Due to this, consistent groundwater flow direction could not be reliably interpreted.
- The results of the analyses illustrate that exceedences to the MOE Table 2 standards for one or more of the analyzed parameters were identified in at least one of the samples collected from all boreholes, with the exception of soil samples collected from boreholes BH1, BH7, and BH8.
- Exceedences to the applicable MOE Table 2 standards for one or more of the analysed parameters were encountered in all the groundwater samples with the exception of the groundwater samples collected from monitoring wells BH1 and BH8.

## 7.0 LIMITATIONS

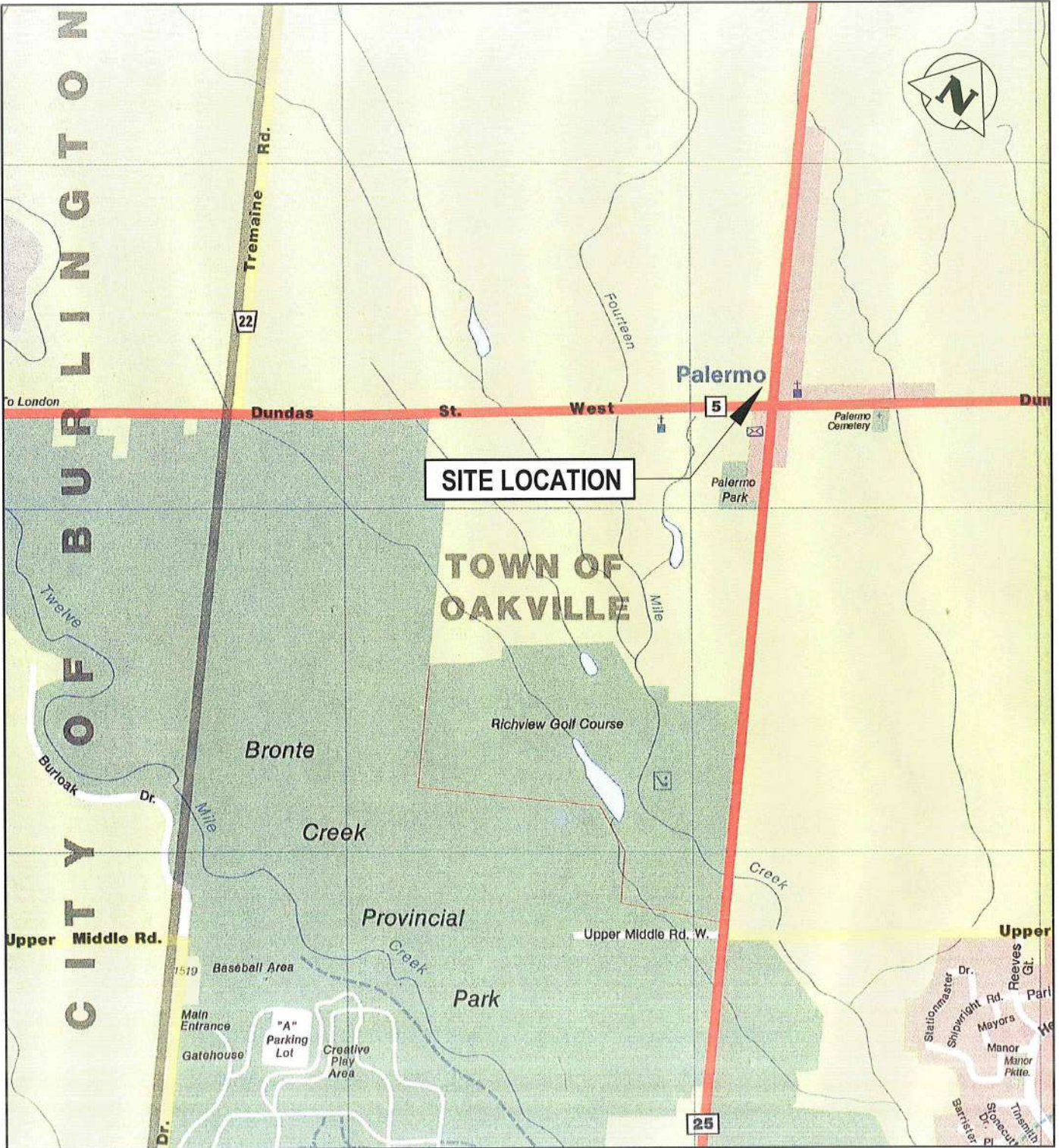
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The scope of this report is limited to the matters expressly covered and is intended solely for the client to whom it is addressed. Wardrop Engineering Inc. makes no warranties, expressed or implied, including without limitation, as to the marketability of the site, or fitness for a particular use. The assessment was conducted using standard engineering and scientific judgement, principles and practices, within a practical scope and budget. It is partially based on the observations of the assessor during the time of the site visit, in conjunction with archival information obtained from a number of sources which is assumed to be correct. Except as provided, Wardrop has made no independent investigations to verify the accuracy or completeness of the information obtained from secondary sources or personal interviews. Generally, the findings, conclusions, and recommendations are based on a limited amount of data interpolated between sampling points, and the actual conditions on the property may vary from that described above. Any findings regarding site conditions different from those described above upon which this report is based, will consequently change Wardrop's conclusions and recommendations.





X:\N-S\SHELL - 1348\08134801.01 - OAKVILLE ON SHELL C05875 SUPPLEMENTAL PHASE II ESA\CAD\SUBMITTED\ENV\08.09.23\_FINAL\_REPORT\0813480101-SKT-V0001-A-FIG.1.DWG 08.09.23 13:36



REFERENCE: MAPART PUBLISHING

N.T.S.

**WARDROP** | Engineering Inc.

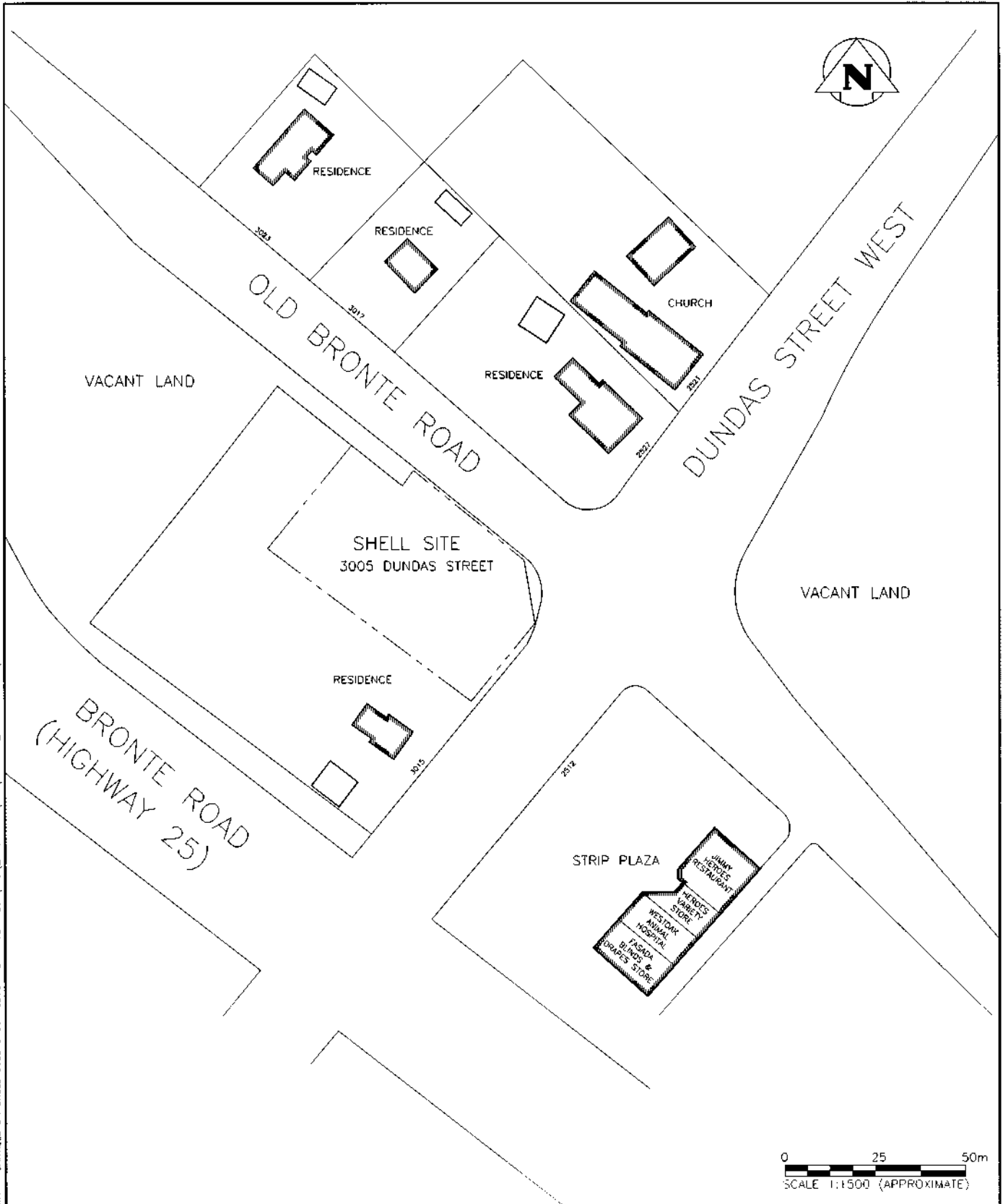
CLIENT **Shell Canada Products**

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DWG DESCRIPTION  
**SITE PLAN LOCATION - OAKVILLE**  
 SHELL RETAIL No. C05875

DRAWN BY:	HR	DATE:	08.05.15	<b>FIGURE 1</b>	REV. 00
REVISED BY:	HR	DATE:	08.05.15		
DESIGNED BY:	FT	CHECKED BY:	FT		
DWG NO.			0813480101-SKT-V0001-A		

X:\W-S\SHELL - 1348\081348\1.01 - OAKVILLE ON SHELL\_C05875 SUPPLEMENTAL PHASE II ESA\CAO\SUBMITTED\EN\08.09.23\_FINAL REPORT\0813480101-SKT-V0002-A-FIG.2.DWG 08.09.23 13:37



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Engineering Inc.

CLIENT

**Shell Canada Products**

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DWG DESCRIPTION

LOCAL LAND USE PLAN - SHELL RETAIL No. C05875  
3005 DUNDAS STREET WEST  
OAKVILLE, ONTARIO

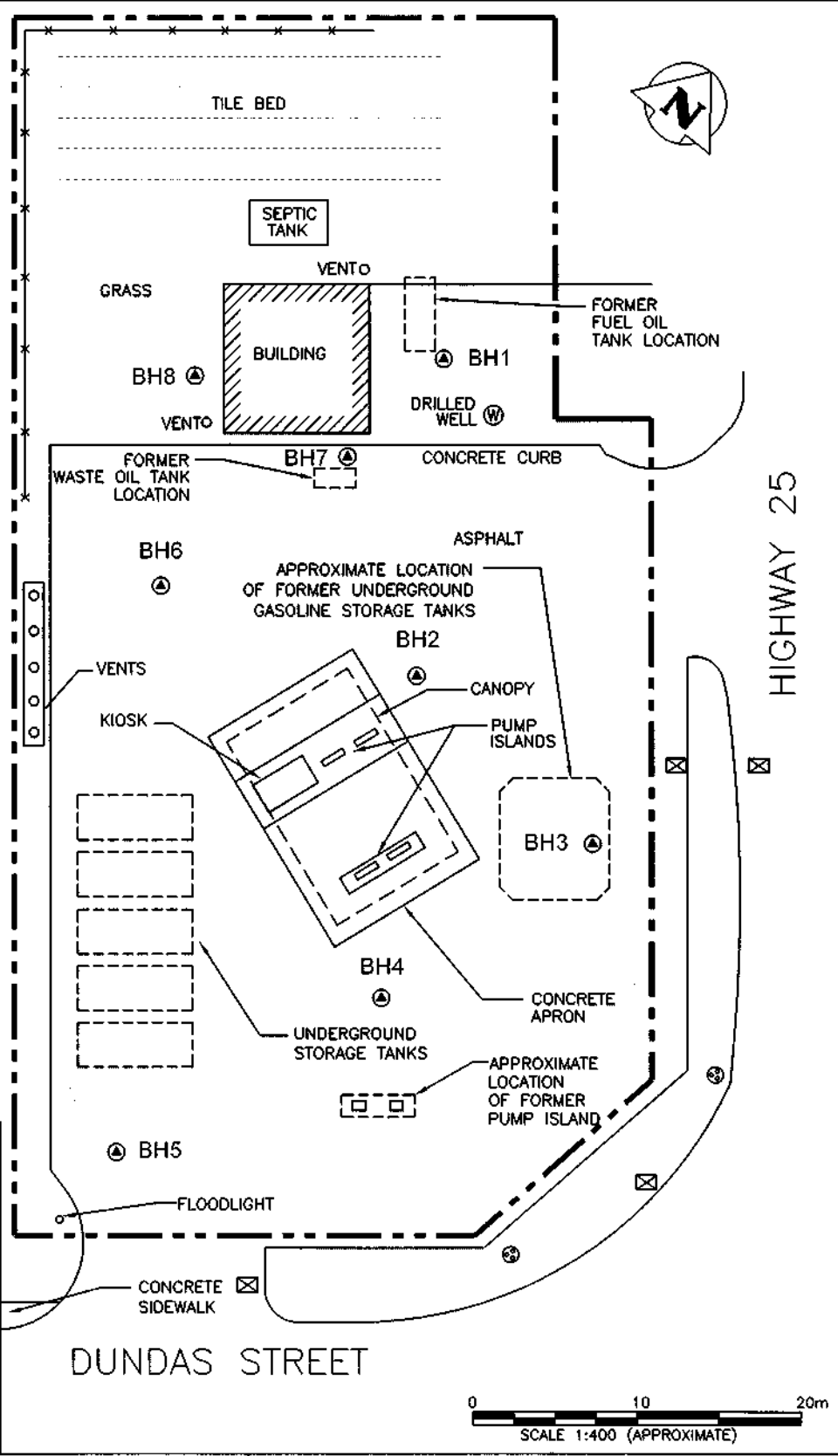
DRAWN BY: HR	DATE: 08.05.15
REVISED BY: HR	DATE: 08.05.15
DESIGNED BY: FT	CHECKED BY: JC

**FIGURE 2**

REV. 00

DWG NO. 0813480101-SKT-V0002-A

X:\N-S\SHELL - 1348\08134801.01 - OAKVILLE ON SHELL C05875 SUPPLEMENTAL PHASE II ESA\CAD\\_SUBMITTED\ENV\08.09.23\_FINAL REPORT\0813480101-SKT-V0003-A-FIG.3.DWG 08.09.23 13:38



LEGEND	
	BORDER LINE
	WOODEN FENCE
	BOREHOLE/MONITORING WELL (WARDROP) - 2008
	CATCH BASIN
	MANHOLE
	HISTORIC LOCATION OF TRENCH AND RECOVERY WELL (BY OTHERS)

<b>WARDROP</b> Engineering Inc.		CLIENT <b>Shell Canada Products</b>	
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DRAWN BY: HR REVISIONS: NR DESIGNED BY: FT	DATE: 08.05.15 DATE: 08.08.22 CHECKED BY: JL	<b>FIGURE 3</b>	REV. 00 DWG NO. 0813480101-SKT-V0003-A



BH7											DATE SAMPLED: APRIL/03/2008
Sample ID	Depth (mbg)	B	T	E	X	F1	F2	F3	F4	Lead	
BH7-SS1	2.3 - 2.9	<	<	<	<	<	<	<	<	16	

BH1											DATE SAMPLED: DECEMBER/18/2007
Sample ID	Depth (mbg)	B	T	E	X	F1	F2	F3	F4	Lead	
BH1-SS4	2.3 - 2.9	0.004	0.008	<	0.009	<	<	<	<	13	

BH8											DATE SAMPLED: APRIL/03/2008
Sample ID	Depth (mbg)	B	T	E	X	F1	F2	F3	F4	Lead	
BH8-AS6	1.5 - 1.8	<	<	<	<	<	<	<	<	11	

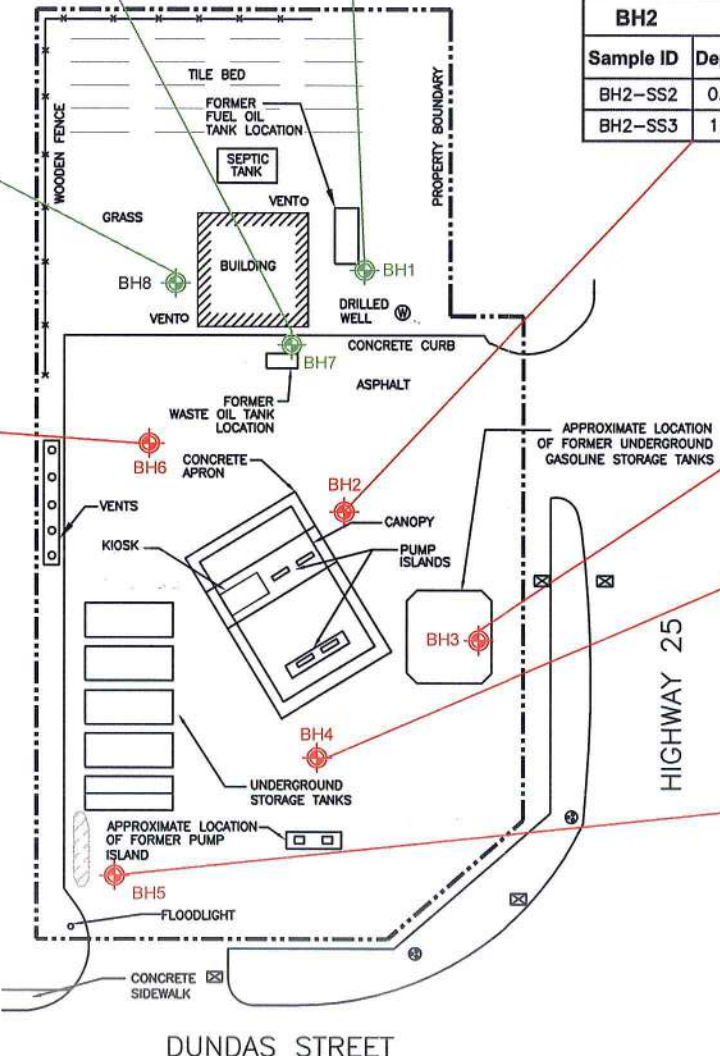
BH2											DATE SAMPLED: DECEMBER/18/2007
Sample ID	Depth (mbg)	B	T	E	X	F1	F2	F3	F4	Lead	
BH2-SS2	0.8 - 1.4	0.98	0.09	0.92	0.082	37	<	<	<	NA	
BH2-SS3	1.5 - 2.1	<	<	<	<	<	<	<	<	NA	

BH6											DATE SAMPLED: DECEMBER/18/2007
Sample ID	Depth (mbg)	B	T	E	X	F1	F2	F3	F4	Lead	
BH6-SS1	0.0 - 0.6	11	1.7	62	260	2,000	190	3,100	1,900	NA	
BH6-SS3	1.5 - 2.1	<	<	0.06	0.26	<	<	<	<	NA	

BH3											DATE SAMPLED: DECEMBER/17/2007
Sample ID	Depth (mbg)	B	T	E	X	F1	F2	F3	F4	Lead	
BH3-SS2	0.8 - 1.4	6.2	1.6	110	440	4,100	1,900	360	92	NA	
BH3-SS4	2.4 - 2.9	<	<	0.15	0.73	10	12	26	<	NA	

BH4											DATE SAMPLED: DECEMBER/17/2007
Sample ID	Depth (mbg)	B	T	E	X	F1	F2	F3	F4	Lead	
BH4-SS3	1.5 - 2.1	0.42	<	0.46	<	16	<	<	<	NA	

BH5											DATE SAMPLED: DECEMBER/18/2007
Sample ID	Depth (mbg)	B	T	E	X	F1	F2	F3	F4	Lead	
BH5-SS2	0.8 - 1.4	5.6	65	26	160	160	16	<	<	NA	
DUP*	0.8 - 1.4	2.0	23	9.7	53	190	98	13	<	NA	
BH5-SS4	2.3 - 2.9	<	0.08	<	0.06	<	<	<	<	NA	



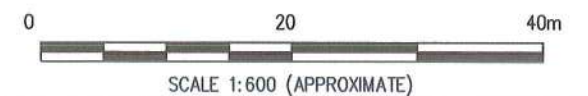
**SITE CONDITION STANDARDS**

THE STANDARDS SHOWN ARE THE TABLE 2 FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A POTABLE GROUND WATER CONDITION WITH INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE AND MEDIUM AND FINE TEXTURED SOIL CONDITIONS SELECTED FROM THE SOIL, GROUND WATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT

SHOWN AS	PARAMETER	UNITS	RDL	Table 2 Standards
B	Benzene	µg/g	0.02	0.24
T	Toluene	µg/g	0.02	2.1
E	Ethylbenzene	µg/g	0.02	0.28
X	Total Xylenes	µg/g	0.04	25
F1	C6-C10; Excluding BTEX	µg/g	10	180
F2	>C10-C16	µg/g	10	250
F3	>C16-C34	µg/g	10	2,500
F4	>C34-C50	µg/g	10	6,600
Lead	Lead	µg/g	5	1,000

**LEGEND**

- BOREHOLE WITH MONITORING WELL
- AT LEAST ONE SOIL SAMPLE EXCEEDED THE APPLICABLE TABLE 2 STANDARDS FOR AT LEAST ONE PARAMETER ANALYSED
- ALL SOIL SAMPLES MET THE APPLICABLE TABLE 2 STANDARDS FOR ALL PARAMETERS ANALYSED
- TEXT** - EXCEEDED TABLE 2 STANDARD FOR THIS PARAMETER
- TEXT** - MET TABLE 2 STANDARD FOR THIS PARAMETER
- < - PARAMETER PRESENT BELOW THE LABORATORY RDL
- mbg - METRES BELOW GRADE
- \* - DENOTES BLIND FIELD DUPLICATE SAMPLE OF PRECEDING SAMPLE
- NA - PARAMETER NOT ANALYSED
- RDL - REPORTABLE DETECTION LIMIT
- µg/g - MICROGRAM(S) PER GRAM
- CATCH BASIN
- MANHOLE
- APPROXIMATE LOCATION OF HISTORIC TRENCH AND RECOVERY WELL (BY OTHERS)



<b>WARDROP</b> Engineering Inc.	CLIENT		<b>Shell Canada Products</b>
	DWG DESCRIPTION		
SOIL LABORATORY DATA - SHELL RETAIL No. C05875 3005 DUNDAS STREET WEST OAKVILLE, ONTARIO			
DRAWN BY: HR	DATE: 08.01.15	<b>FIGURE 4</b>	
REVISED BY: HR	DATE: 08.06.18		
DESIGNED BY: FT	CHECKED BY: JLC		
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BH7 SCREEN INTERVAL: 0.6-3.7mbg										
Date	Sample ID	B	T	E	X	F1+F2	F3+F4	Lead	MTBE	
APR/07/08	BH7	46	<	2.0	<	<	<	<	<	7

BH1 SCREEN INTERVAL: 1.4 - 4.4 mbg										
Date	Sample ID	B	T	E	X	F1+F2	F3+F4	Lead	MTBE	
JAN/08/08	BH1	<	0.3	<	<	<	<	NA	NA	

DRILLED WATER WELL & WASHROOM TAP										
Date	Sample ID	B	T	E	X	F1+F2	F3+F4	Lead	MTBE	
JUN/13/06	OAK	<	<	<	<	<	<	<	<	
OCT/19/06	FALL-OAKVILLE	<	<	<	0.14	<	<	<	<	
MAR/23/07	OAKVILLE-SPRING	<	<	<	<	<	<	<	<	
OCT/12/07	OAKVILLE-FALL	0.4	2.9	23	88	240	<	<	<	
OCT/24/07	OAKVILLE-WELL	<	24	93	480	1650	<	<	<	
OCT/24/07	OAKVILLE-EQUIPMENTS	<	<	<	<	<	<	<	<	
OCT/24/07	OAKVILLE-TAP-NO PURGE	<	0.9	18	32	300	<	<	<	
OCT/24/07	OAKVILLE-TAP-PURGED	<	1.3	6.7	31	110	<	<	<	
OCT/24/07	OAKVILLE-TAP-DUP	<	1.4	6.8	31	110	<	<	<	

BH8 SCREEN INTERVAL: 0.6-3.7mbg										
Date	Sample ID	B	T	E	X	F1+F2	F3+F4	Lead	MTBE	
APR/07/08	BH8	<	<	<	0.1	<	<	<	<	0.7

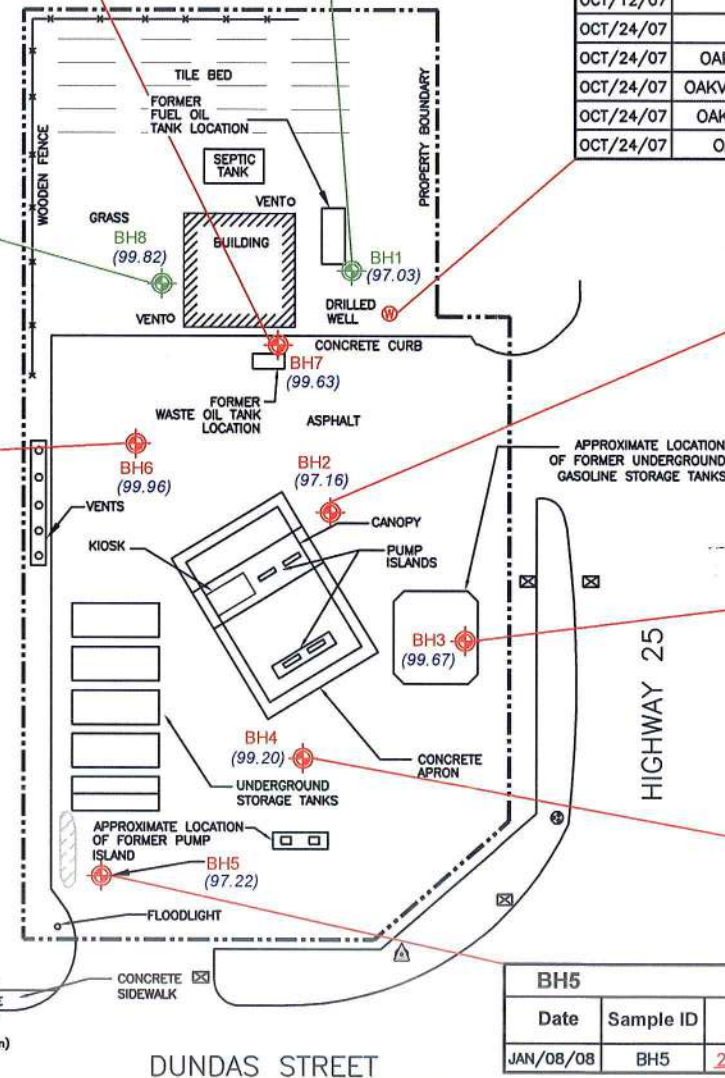
BH6 SCREEN INTERVAL: 0.6 - 3.7 mbg										
Date	Sample ID	B	T	E	X	F1+F2	F3+F4	Lead	MTBE	
JAN/08/08	BH6	2,600	<	460	1,900	900	140	<	180	

BH2 SCREEN INTERVAL: 1.4 - 4.4 mbg										
Date	Sample ID	B	T	E	X	F1+F2	F3+F4	Lead	MTBE	
JAN/08/08	BH2	31	9.5	13	71	<	<	NA	NA	

BH3 SCREEN INTERVAL: 0.8 - 3.8 mbg										
Date	Sample ID	B	T	E	X	F1+F2	F3+F4	Lead	MTBE	
JAN/08/08	BH3	340	<	630	3,100	10,800	<	<	<	

BH4 SCREEN INTERVAL: 0.6 - 3.7 mbg										
Date	Sample ID	B	T	E	X	F1+F2	F3+F4	Lead	MTBE	
JAN/08/08	BH4	2,000	<	660	380	860	<	<	2,000	
JAN/08/08	DUP*	2,300	<	930	650	1,100	130	4.5	1,800	

BH5 SCREEN INTERVAL: 1.4 - 4.4 mbg										
Date	Sample ID	B	T	E	X	F1+F2	F3+F4	Lead	MTBE	
JAN/08/08	BH5	2,700	3,000	430	950	710	130	NA	NA	



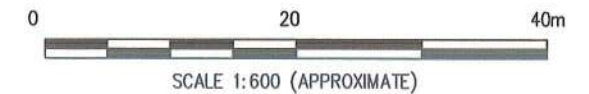
**SITE CONDITION STANDARDS**

THE STANDARDS SHOWN ARE THE TABLE 2 FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A POTABLE GROUND WATER CONDITION WITH ALL TYPES OF PROPERTY USE AND MEDIUM AND FINE TEXTURED SOIL CONDITIONS SELECTED FROM THE SOIL, GROUNDWATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT

SHOWN AS	PARAMETER	UNITS	RDL	Table 2 Standards
B	Benzene	µg/L	0.1	5.0
T	Toluene	µg/L	0.2	24
E	Ethylbenzene	µg/L	0.1	2.4
X	Total Xylenes	µg/L	0.1	300
F1 + F2	C6-C16; Excluding BTEX	µg/L	10	1,000
F3 + F4	>C16-C50	µg/L	10	1,000
Lead	Lead	µg/L	0.5	10
MTBE	Methyl t-butyl ether	µg/L	0.2	700

**LEGEND**

- BOREHOLE WITH MONITORING WELL
- (96.75) - GROUNDWATER ELEVATION (MAY 2008)
- AT LEAST ONE GROUNDWATER SAMPLE EXCEEDED THE APPLICABLE TABLE 2 STANDARDS FOR AT LEAST ONE PARAMETER ANALYSED
- (m) - METRES
- mbg - METRES BELOW GRADE
- \* - DENOTES BLIND FIELD DUPLICATE SAMPLE OF PRECEDING SAMPLE
- ALL GROUNDWATER SAMPLES MET THE APPLICABLE STANDARDS FOR ALL PARAMETERS ANALYSED TABLE 2
- NA - PARAMETER NOT ANALYSED
- TEXT - EXCEEDED TABLE 2 STANDARD FOR THIS PARAMETER
- TEXT - MET TABLE 2 STANDARD FOR THIS PARAMETER
- RDL - REPORTABLE DETECTION LIMIT
- µg/L - MICROGRAM(S) PER LITRE
- < - PARAMETER PRESENT BELOW THE LABORATORY RDL
- Δ - TEMPORARY BENCHMARK AT SOUTHEAST CORNER OF SITE (TOP CENTRE OF MANHOLE)
- - CATCH BASIN
- ⊕ - MANHOLE
- APPROXIMATE LOCATION OF HISTORIC TRENCH AND RECOVERY WELL (BY OTHERS)

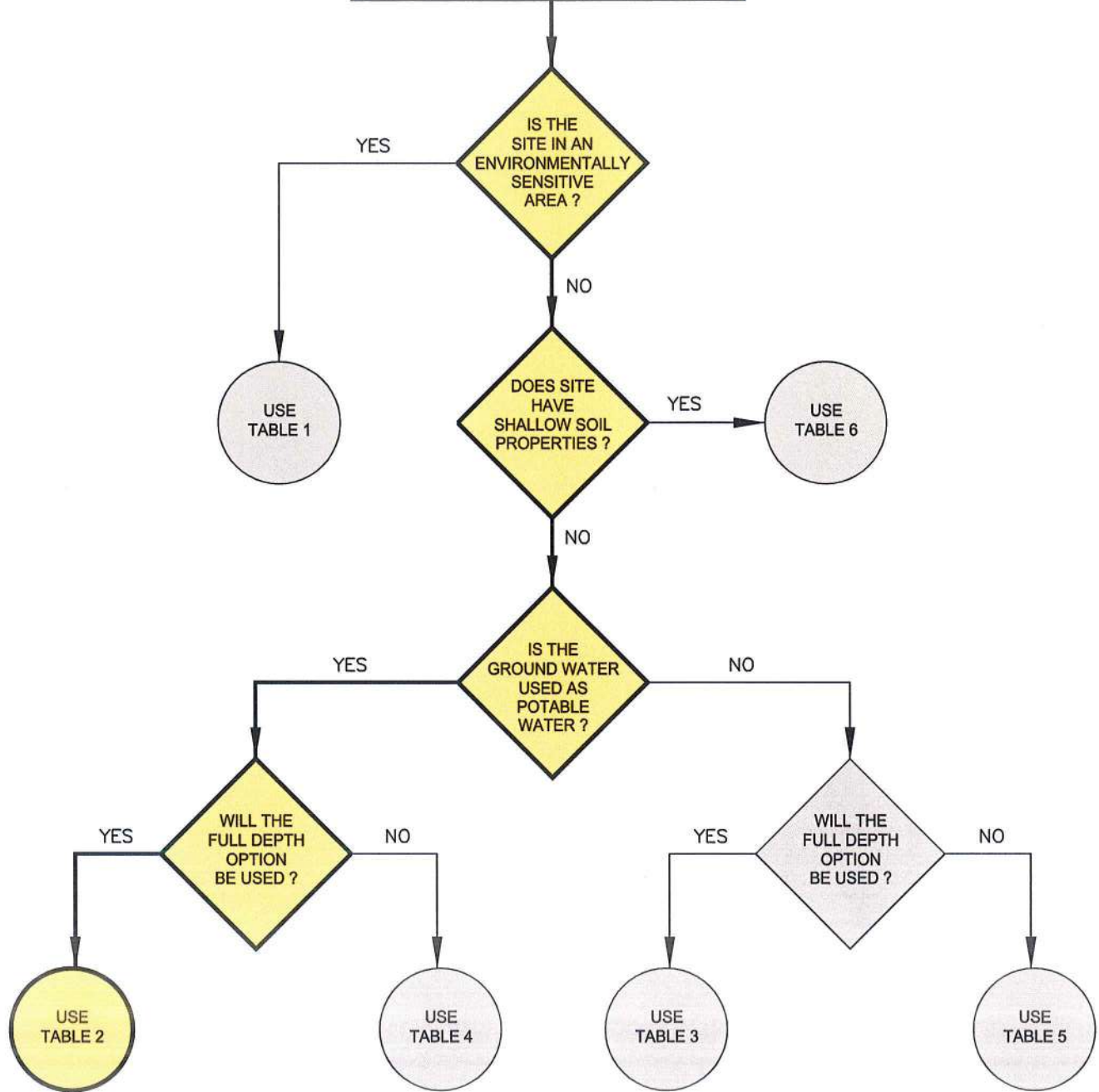


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CLIENT		<b>Shell Canada Products</b>	
DWG DESCRIPTION			
GROUNDWATER ELEVATIONS & LABORATORY DATA - SHELL RETAIL No. C05875 3005 DUNDAS STREET WEST OAKVILLE, ONTARIO			
DRAWN BY:	HR	DATE:	08.01.15
REVISED BY:	HR	DATE:	08.06.18
DESIGNED BY:	FT	CHECKED BY:	
FIGURE 5			REV. 00
DWG NO. 0813480101-SKT-V0006-A1			

**SELECTION OF SITE  
CONDITION STANDARDS**



**NOTE:**  
 CPG-FRANZ ENVIRONMENTAL INC. FLOWCHART, DERIVED FROM THE ONTARIO REGULATION 153/04 MADE UNDER THE ENVIRONMENTAL PROTECTION ACT. SOIL, GROUND WATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT DATED MARCH 9, 2004

**WARDROP** | Engineering Inc.

CLIENT		<b>Shell Canada Products</b>	
DWG DESCRIPTION		STANDARD SELECTION FLOW CHART - SHELL RETAIL No. C05875 3005 DUNDAS STREET WEST OAKVILLE, ONTARIO	
DRAWN BY: HR	DATE: 08.05.15	<b>FIGURE 6</b> <span style="float: right;">REV. 00</span>	
REVISED BY: HR	DATE: 08.05.22		
DESIGNED BY: FT	CHECKED BY: <i>jc</i>		
DWG NO.		0813480101-SKT-V0004-A	

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**TABLE 1  
HISTORIC GROUNDWATER LABORATORY ANALYSES (DRILLED WATER WELL AND WASHROOM TAP)  
PETROLEUM HYDROCARBON PARAMETERS**

Sampling Date	Sample ID Laboratory ID	Benzene	Toluene	Ethylbenzene	Xylenes	F1 + F2	F3 + F4
	<b>RDL</b> <sup>2</sup>	0.2	0.2	0.2	0.4	100	100
	<b>UNITS</b>	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	<i>MOE Reg 153/04 Table 2</i> <sup>1</sup>	<b>5.0</b>	<b>24</b>	<b>2.4</b>	<b>300</b>	<b>1000</b>	<b>1000</b>
13-Jun-06	OAK M54512	<	<	<	<	<	<
19-Oct-06	FALL - OAKVILLE O96271	<	<	<	0.14	<	<
23-Mar-07	OAKVILLE-SPRING R49413	<	<	<	<	<	<
12-Oct-07	OAKVILLE-FALL V21272	0.4	2.9	<b>23</b>	88	240	<
24-Oct-07	OAKVILLE-WELL V44893	<	24	<b>93</b>	<b>480</b>	<b>1650</b>	<
	OAKVILLE-EQUIPMENT V44894	<	<	<	<	<	<
	OAKVILLE-TAP-NO PURGE V44895	<	0.9	<b>18</b>	32	300	<
	OAKVILLE-TAP-PURGED V44896	<	1.3	<b>6.7</b>	31	110	<
	OAKVILLE-TAP-DUP V44897	<	1.4	<b>6.8</b>	31	110	<

- Notes:**
- The Standards shown are the MOE *Ontario Regulation 153/04* Soil, Ground Water and Sediment Standards (March 9, 2004), *Table 2* Full Depth Generic Site Condition Standards in a Potable Ground Water Condition for All Types of Property Use and Medium and Fine Textured Soil Conditions.
  - Typical *Table 2* RDL's shown. Refer to laboratory certificates of analysis for any RDL adjustments.
  - Bold** - Parameters exceeded the applicable MOE *Table 2* Standards.

**Table Abbreviations:** (<) = parameter present below the laboratory reportable detection limit [RDL]; (NV) = no value derived; (µg/g) = micrograms per gram; (ppm) = parts per million; (%LEL) = percentage of lower explosive limit; (OVM) = organic vapour meter; (MOE) = Ministry of the Environment; (NM) = not measured; (mbg) = meters below grade; (NA) = not analysed.



TABLE 2 GRAIN SIZE AND pH ANALYSES					
Sample ID	Depth (mbg)	pH	Percent (by Mass) of Particles Finer than 75 µm in Mean Diameter	Type of Material	Soil Texture <sup>1</sup>
BH3-SS2	0.8 - 1.4	7.33	-	-	-
BH5-SS4	2.3 - 2.9	7.78	-	-	-
BH6-SS4	2.3 - 2.9	-	85%	Silty Clay	Medium and Fine

**Notes:**

- Soil texture is defined in the MOE Soil, Ground Water and Sediment Standards (March 9, 2004) as the following: If it is determined that at least 1/3 of the soil at the property measured by volume consists of "coarse textured soil" (means soil that contains more than 50 per cent by mass of particles that are 75 µm or larger in mean diameter) the standard for coarse textured soil shall be applied; or in any other case, the standard for "medium and fine" (means soil that contains 50 percent or more by mass of particles that are smaller than 75 µm in mean diameter) textured soil shall be applied.
- Refer to laboratory Certificates of Analysis (Appendix F) for Methods of Analysis.

**Table Abbreviations:** (mbg) = metres below grade; (µm) = micrometres.

TABLE 3

SUMMARY OF SOIL LABORATORY ANALYSES  
PETROLEUM HYDROCARBON PARAMETERS

Sample ID Laboratory ID	RDL <sup>2</sup>	UNITS	BH1-SS4 W50364	BH2-SS2 W50365	BH2-SS3 W50366	BH3-SS2 W50367	BH3-SS4 W50368	MOE Reg 153/04 Table 2 Standard <sup>1</sup>
OVM Reading	-	ppm/% LEL	50 ppm	430 ppm	25 ppm	40% LEL	110 ppm	-
Sample Depth	-	mbg	2.3 - 2.9	0.8 - 1.4	1.5 - 2.1	0.8 - 1.4	2.3 - 2.9	-
Sampling Date	-	-	18-Dec-07	18-Dec-07	18-Dec-07	17-Dec-07	17-Dec-07	-
Benzene	0.02	µg/g	0.004	<b>0.98</b>	<	<b>6.2</b>	<	0.24
Toluene	0.02	µg/g	0.008	0.09	<	1.6	<	2.1
Ethylbenzene	0.02	µg/g	<	<b>0.92</b>	<	<b>110</b>	0.15	0.28
Total Xylenes	0.04	µg/g	0.009	0.82	<	<b>440</b>	0.73	25
F1 (C6-C10; excluding BTEX)	10	µg/g	<	37	<	<b>4100</b>	10	180
F2 (>C10-C16)	10	µg/g	<	<	<	<b>1900</b>	12	250
F3 (>C16-C34)	10	µg/g	<	<	<	360	26	2500
F4 (>C34-C50)	10	µg/g	<	<	<	92	<	6600
Lead	5	µg/g	13	NA	NA	NA	NA	1000

**Notes:** 1. The Standards shown are the MOE Ontario Regulation 153/04 Soil, Ground Water and Sediment Standards (March 9, 2004), Table 2 Full Depth Generic Site Condition Standards in a Potable Ground Water Condition with Industrial/Commercial/Community Property Use and Medium and Fine Textured Soil Conditions.

2. Typical RDL values shown. Refer to laboratory certificate of analysis for any RDL adjustments.

3. Refer to laboratory Certificates of Analysis (Appendix F) for Methods of Analysis.

4. **bold** - Parameter exceeded the applicable MOE Table 2 Standards.

**Table Abbreviations:** (<) = parameter present below the laboratory reportable detection limit [RDL]; (NV) = no value derived; (µg/g) = micrograms per gram; (ppm) = parts per million; (%LEL) = percentage of lower explosive limit; (OVM) = organic vapour meter; (MOE) = Ministry of the Environment; (NM) = not measured; (mbg) = meters below grade; (NA) = not analysed.

TABLE 3 (cont'd)

SUMMARY OF SOIL LABORATORY ANALYSES  
PETROLEUM HYDROCARBON PARAMETERS

Sample ID Laboratory ID	RDL <sup>2</sup>	UNITS	BH4-SS3 W50369	BH5-SS2 W50370	DUP (field duplicate of BH5-SS2) W50375	BH5-SS4 W50371	BH6-SS1 W50372	MOE Reg 153/0 Table 2 Standard <sup>1</sup>
OVM Reading	-	ppm/% LEL	110 ppm	90% LEL	-	80 ppm	80% LEL	-
Sample Depth	-	mbg	1.5 - 2.1	0.8 - 1.4	-	2.3 - 2.9	0.0 - 0.6	-
Sampling Date	-	-	17-Dec-07	18-Dec-07	18-Dec-07	18-Dec-07	18-Dec-07	-
Benzene	0.02	µg/g	<b>0.42</b>	<b>5.6</b>	<b>2.0</b>	<	<b>11</b>	0.24
Toluene	0.02	µg/g	<	<b>65</b>	<b>23</b>	0.08	1.7	2.1
Ethylbenzene	0.02	µg/g	<b>0.46</b>	<b>26</b>	<b>9.7</b>	<	<b>62</b>	0.28
Total Xylenes	0.04	µg/g	<	<b>160</b>	<b>53</b>	0.06	<b>260</b>	25
F1 (C6-C10; excluding BTEX)	10	µg/g	16	160	<b>190</b>	<	<b>2,000</b>	180
F2 (>C10-C16)	10	µg/g	<	16	98	<	190	250
F3 (>C16-C34)	10	µg/g	<	<	13	<	<b>3,100</b>	2500
F4 (>C34-C50)	10	µg/g	<	<	<	<	1900	6600
Lead	5	µg/g	NA	NA	NA	NA	NA	1000

**Notes:** 1. The Standards shown are the MOE Ontario Regulation 153/04 Soil, Ground Water and Sediment Standards (March 9, 2004), Table 2 Full Depth Generic Site Condition Standards in a Potable Ground Water Condition with Industrial/Commercial/Community Property Use and Medium and Fine Textured Soil Conditions.  
2. Typical RDL values shown. Refer to laboratory certificate of analysis for any RDL adjustments.  
3. Refer to laboratory Certificates of Analysis (Appendix F) for Methods of Analysis.  
4. **Bold** - Parameter exceeded the applicable MOE Table 2 Standards.

**Table Abbreviations:** (<) = parameter present below the laboratory reportable detection limit [RDL]; (NV) = no value derived; (µg/g) = micrograms per gram; (ppm) = parts per million; (%LEL) = percentage of lower explosive limit; (OVM) = organic vapour meter; (MOE) = Ministry of the Environment; (NM) = not measured; (mbg) = meters below grade; (NA) = not analysed.

TABLE 3 (cont'd)						
SUMMARY OF SOIL LABORATORY ANALYSES PETROLEUM HYDROCARBON PARAMETERS						
Sample ID Laboratory ID	RDL <sup>2</sup>	UNITS	BH6-SS3 W50373	BH7-SS1 X92904	BH8-AS6 X92905	MOE Reg 153/04 Table 2 Standard <sup>1</sup>
OVM Reading	-	ppm/% LEL	75 ppm	100 ppm	100 ppm	-
Sample Depth	-	mbg	1.5 - 2.1	2.3 - 2.9	1.5 - 1.8	-
Sampling Date	-	-	18-Dec-07	3-Apr-08	3-Apr-08	-
Benzene	0.02	µg/g	<	<	<	0.24
Toluene	0.02	µg/g	<	<	<	2.1
Ethylbenzene	0.02	µg/g	0.06	<	<	0.28
Total Xylenes	0.04	µg/g	0.26	<	<	25
F1 (C6-C10; excluding BTEX)	10	µg/g	<	<	<	180
F2 (>C10-C16)	10	µg/g	<	<	<	250
F3 (>C16-C34)	10	µg/g	<	<	<	2500
F4 (>C34-C50)	10	µg/g	<	<	<	6600
Lead	5	µg/g	NA	16	11	1000

Notes: 1. The Standards shown are the MOE Ontario Regulation 153/04 Soil, Ground Water and Sediment Standards (March 9, 2004), Table 2 Full Depth Generic Site Condition Standards in a Potable Ground Water Condition with Industrial/Commercial/Community Property Use and Medium and Fine Textured Soil Conditions.

2. Typical RDL values shown. Refer to laboratory certificate of analysis for any RDL adjustments.

3. Refer to laboratory Certificates of Analysis (Appendix F) for Methods of Analysis.

4. **Lead** - Parameter exceeded the applicable MOE Table 2 Standards.

Table Abbreviations: (<) = parameter present below the laboratory reportable detection limit [RDL]; (NV) = no value derived; (µg/g) = micrograms per gram; (ppm) = parts per million; (%LEL) = percentage of lower explosive limit; (OVM) = organic vapour meter; (MOE) = Ministry of the Environment; (NIM) = not measured; (mbg) = meters below grade; (NA) = not analysed.

**TABLE 4**  
**SUMMARY OF SOIL LABORATORY ANALYSES**  
**POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)**

Sample ID Laboratory ID	RDL	UNITS	BH1-SS4 W50364	MOE Reg 153/04 Table 2 Standard <sup>1</sup>
OVM Reading	-	ppm/% LEL	50 ppm	-
Sample Depth	-	mbg	2.3 - 2.9	-
Sampling Date	-	-	18-Dec-07	-
Acenaphthene	0.01	µg/g	<	15
Acenaphthylene	0.005	µg/g	<	130
Anthracene	0.005	µg/g	<	28
Benzo(a)anthracene	0.01	µg/g	<	6.6
Benzo(a)pyrene	0.005	µg/g	<	1.9
Benzo(b/j)fluoranthene	0.005	µg/g	<	18
Benzo(g,h,i)perylene	0.02	µg/g	<	40
Benzo(k)fluoranthene	0.01	µg/g	<	18
Chrysene	0.01	µg/g	<	17
Dibenzo(a,h)anthracene	0.02	µg/g	<	1.9
Fluoranthene	0.005	µg/g	0.005	40
Fluorene	0.005	µg/g	<	340
Indeno(1,2,3-cd)pyrene	0.02	µg/g	<	19
1-Methylnaphthalene <sup>2</sup>	0.005	µg/g	<	1.2
2-Methylnaphthalene	0.005	µg/g	<	1.2
Naphthalene	0.005	µg/g	<	4.6
Phenanthrene	0.005	µg/g	<	40
Pyrene	0.005	µg/g	<	250

**Notes:** 1. The Standards shown are the MOE Ontario Regulation 153/04 Soil, Ground Water and Sediment Standards (March 9, 2004), *Table 2* Full Depth Generic Site Condition Standards in a Potable Ground Water Condition with Industrial/Commercial/Community Property Use and Medium and Fine Textured Soil Conditions.

2. 2-methyl naphthalene soil standard is applicable to 1-methyl naphthalene with the provision that if both are detected in the soil, the sum of the two concentrations cannot exceed the soil standard.

3. Refer to laboratory Certificates of Analysis (Appendix F) for Methods of Analysis.

4. **Bold** - Parameter exceeded the applicable MOE Table 2 Standards.

**Table Abbreviations:** (<) = parameter present below the laboratory reportable detection limit [RDL]; (NV) = no value derived; (µg/g) = micrograms per gram; (ppm) = parts per million; (%LEL) = percentage of lower explosive limit; (OVM) = organic vapour meter; (MOE) = Ministry of the Environment; (NM) = not measured; (mbg) = meters below grade.

**TABLE 5**  
**SUMMARY OF SOIL LABORATORY ANALYSES**  
**VOLATILE ORGANIC COMPOUNDS (VOCs)**

Sample ID Laboratory ID	RDL	UNITS	BH1-SS4 W50364	MOE Reg 153/04 Table 2 Standard <sup>1</sup>
OVM Reading	-	ppm/% LEL	50 ppm	-
Sample Depth	-	mbg	2.3 - 2.9	-
Sampling Date	-	-	18-Dec-07	-
Acetone	0.1	µg/g	0.1	3.5
Benzene	0.002	µg/g	0.004	0.24
Bromodichloromethane	0.002	µg/g	<	0.12
Bromoform	0.002	µg/g	<	0.11
Bromomethane	0.003	µg/g	<	0.38
Carbon Tetrachloride	0.002	µg/g	<	0.64
Chlorobenzene	0.002	µg/g	<	2.4
Chloroform	0.002	µg/g	<	0.13
Dibromochloromethane	0.002	µg/g	<	0.09
1,2-Dichlorobenzene	0.002	µg/g	0.010	0.88
1,3-Dichlorobenzene	0.002	µg/g	<	30
1,4-Dichlorobenzene	0.002	µg/g	<	0.32
1,1-Dichloroethane	0.002	µg/g	<	3.0
1,2-Dichloroethane	0.002	µg/g	<	0.05
1,1-Dichloroethylene	0.002	µg/g	<	0.015
cis-1,2-Dichloroethylene	0.002	µg/g	<	2.3
trans-1,2-Dichloroethylene	0.002	µg/g	<	4.1
1,2-Dichloropropane	0.002	µg/g	<	0.12
cis-1,3-Dichloropropene	0.002	µg/g	<	NV
trans-1,3-Dichloropropene	0.002	µg/g	<	0.04
Ethylbenzene	0.002	µg/g	<	0.28
Ethylene Dibromide	0.002	µg/g	<	0.012
Methylene Chloride	0.003	µg/g	<	1.1
Methyl Isobutyl Ketone	0.025	µg/g	<	0.48
Methyl Ethyl Ketone	0.025	µg/g	<	0.27
Methyl t-butyl ether (MTBE)	0.002	µg/g	0.002	5.7
Styrene	0.002	µg/g	<	1.7
1,1,1,2-Tetrachloroethane	0.002	µg/g	<	0.12
1,1,2,2-Tetrachloroethane	0.002	µg/g	<	0.01
Tetrachloroethylene	0.002	µg/g	<	0.45
Toluene	0.002	µg/g	0.008	2.1
1,1,1-Trichloroethane	0.002	µg/g	<	34
1,1,2-Trichloroethane	0.002	µg/g	<	0.28
Trichloroethylene	0.002	µg/g	<	3.9
Vinyl Chloride	0.002	µg/g	<	0.0075
Xylenes	0.002	µg/g	0.009	25

**Notes:**

- The Standards shown are the MOE Ontario Regulation 153/04 Soil, Ground Water and Sediment Standards (March 9, 2004), Table 2 Full Depth Generic Site Condition Standards in a Potable Ground Water Condition with Industrial/Commercial/Community Property Use and Medium and Fine Textured Soil Conditions.
- Refer to laboratory Certificates of Analysis (Appendix F) for Methods of Analysis.
- Bold** - Parameter exceeded the applicable MOE Table 2 Standards.

**Table Abbreviations:** (<) = parameter present below the laboratory reportable detection limit [RDL]; (NV) = no value derived; (µg/g) = micrograms per gram; (ppm) = parts per million; (%LEL) = percentage of lower explosive limit; (OVM) = organic vapour meter; (MOE) = Ministry of the Environment; (NM) = not measured; (mbg) = meters below grade.

**TABLE 6**  
**SUMMARY OF SOIL LABORATORY ANALYSES**  
**REGULATION 558/00 TCLP LEACHATE ANALYSIS**

Sample ID Laboratory ID	RDL	UNITS	REG W50404	<i>MOE Schedule 4 <sup>1</sup> Leachate Quality Criteria</i>
<b>Sampling Date</b>	-	-	17-Dec-07	-
<b>Benzene</b>	0.01	mg/L	0.06	0.5
<b>Leachable Total PCBs</b>	3	mg/L	<	0.3
<b>Leachable Benzo(a)pyrene</b>	0.1	mg/L	<	0.001
<b>Leachable Nitrate + Nitrite</b>	1	mg/L	43	1000
<b>Leachable Free Cyanide</b>	0.002	mg/L	<	20
<b>Leachable Fluoride</b>	0.1	mg/L	1.7	150
<b>Leachable Mercury</b>	0.001	mg/L	<	0.1
<b>Leachable Arsenic</b>	0.2	mg/L	<	2.5
<b>Leachable Barium</b>	0.2	mg/L	0.6	100
<b>Leachable Boron</b>	0.1	mg/L	4.3	500
<b>Leachable Cadmium</b>	0.05	mg/L	<	0.5
<b>Leachable Chromium</b>	0.1	mg/L	<	5.0
<b>Leachable Lead</b>	0.1	mg/L	<	5.0
<b>Leachable Selenium</b>	0.2	mg/L	<	1.0
<b>Leachable Silver</b>	0.01	mg/L	<	5
<b>Leachable Uranium</b>	0.01	mg/L	<	10
<b>Ignitability</b>	1	mm/min	NI	NV

**Notes:**

1. Criteria shown are for contaminants listed in *Schedule 4* of Ontario *Regulation 558/00* derived from the document titled Registration Guidance Manual For Generators of Liquid Industrial and Hazardous Waste, dated October 2000.
2. Refer to laboratory Certificates of Analysis (Appendix F) for Methods of Analysis.
3. **Bold** - Parameter exceeded the MOE *Schedule 4* Leachate Quality Criteria.

**Table Abbreviations:** (<) = parameter present below the laboratory reportable detection limit [RDL]; (NV) = no value derived; (µg/g) = micrograms per gram; (ppm) = parts per million; (%LEL) = percentage of lower explosive limit; (OVM) = organic vapour meter; (MOE) = Ministry of the Environment; (NM) = not measured; (mbg) = meters below grade.

**TABLE 7**  
**MONITORING AND SURVEY DATA**  
 January 8, 2008

Monitoring Point	Free Product (cm)	OVM Reading Well Headspace (ppm or % LEL)	Top of Pipe Elevation <sup>1</sup> (m)	Grade Elevation <sup>1</sup> (m)	Water Level (mbtop)	Groundwater Elevation (m)
BH1	0	100 ppm	100.41	100.56	3.66	96.75
BH2	0	20% LEL	100.11	100.24	3.05	97.06
BH3	0	25% LEL	99.78	99.95	0.23	99.55
BH4	0	100% LEL	100.01	100.14	0.85	99.16
BH5	0	100% LEL	99.96	100.06	3.85	96.11
BH6	0	100% LEL	100.25	100.38	1.82	98.43

**Notes:** 1. Top of pipe and grade elevations are shown in metres and were surveyed to a benchmark (top and centre of man hole located in the grass boulevard in the southeast corner of the Site) with an assigned datum of 100.00 metres.

**Table Abbreviations:** (cm) = centimetres; (OVM) = organic vapour meter; (ppm) = parts per million; (% LEL) = percentage of the lower explosive limit; (mbtop) = metres below top of pipe; (m) = metres; (N/A) = not applicable.



**TABLE 8**  
**MONITORING AND SURVEY DATA**  
May 6, 2008

Monitoring Point	Free Product (cm)	OVM Reading Well Headspace (ppm or % LEL)	Top of Pipe Elevation <sup>1</sup> (m)	Grade Elevation <sup>1</sup> (m)	Water Level (mbtop)	Groundwater Elevation (m)
BH1	0	25 ppm	100.41	100.56	3.38	97.03
BH2	0	30% LEL	100.11	100.24	2.95	97.16
BH3	0	420 ppm	99.78	99.95	0.11	99.67
BH4	0	100% LEL	100.01	100.14	0.81	99.20
BH5	0	90% LEL	99.96	100.06	2.74	97.22
BH6	0	10% LEL	100.25	100.38	0.29	99.96
BH7	0	40 ppm	100.58	100.74	0.95	99.63
BH8	0	85 ppm	100.78	100.88	0.96	99.82

**Notes:** 1. Top of pipe and grade elevations are shown in metres and were surveyed to a benchmark (top and centre of man hole located in the grass boulevard in the southeast corner of the Site) with an assigned datum of 100.00 metres.

**Table Abbreviations:** (cm) = centimetres; (OVM) = organic vapour meter; (ppm) = parts per million; (% LEL) = percentage of the lower explosive limit; (mbtop) = metres below top of pipe; (m) = metres; (N/A) = not applicable.

TABLE 9

SUMMARY OF GROUNDWATER LABORATORY ANALYSES  
PETROLEUM HYDROCARBON PARAMETERS

Sample ID Laboratory ID	RDL <sup>2</sup>	UNITS	BH1 W69277	BH2 W69278	BH3 W69279	BH4 W69280	DUP (field duplicate of BH4) W69284	MOE Reg 153/04 Table 2 <sup>1</sup>
<b>OVM Reading</b>	-	ppm/% LEL	100 ppm	20% LEL	25% LEL	100% LEL	-	-
<b>Sampling Date</b>	-	-	8-Jan-08	8-Jan-08	8-Jan-08	8-Jan-08	8-Jan-08	-
<b>Benzene</b>	0.2	µg/L	<	<b>31</b>	<b>340</b>	<b>2,000</b>	<b>2,300</b>	5.0
<b>Toluene</b>	0.2	µg/L	0.3	9.5	<	<	<	24
<b>Ethylbenzene</b>	0.2	µg/L	<	<b>13</b>	<b>630</b>	<b>660</b>	<b>930</b>	2.4
<b>Total Xylenes</b>	0.4	µg/L	<	71	<b>3,100</b>	<b>380</b>	<b>650</b>	300
<b>F1 + F2 (C6-C16; excluding BTEX)</b>	100	µg/L	<	<	<b>10,800</b>	860	<b>1,100</b>	1000
<b>F3 + F4 (&gt;C16-C50)</b>	100	µg/L	<	<	<	<	130	1000
<b>Lead</b>	0.5	µg/L	NA	NA	<	<	4.5	10

**Notes:**

- The Standards shown are the MOE Ontario Regulation 153/04 Soil, Ground Water and Sediment Standards (March 9, 2004), Table 2 Full Depth Generic Site Condition Standards in a Potable Ground Water Condition for All Types of Property Use and Medium and Fine Textured Soil Conditions
- Typical Table 2 RDL's shown. Refer to laboratory certificate of analysis for any RDL adjustments.
- Trip spike results are expressed as a percentage of the spiked amounts.
- Total xylenes Trip Spike recoveries are reported as o-Xylene/p+m-Xylene.
- Only F2 Trip Spike recovery reported.
- F3 + F4 Trip Spike recoveries are reported as F3/F4.
- Refer to laboratory Certificates of Analysis (Appendix F) for Methods of Analysis.
- Bold** - Parameter exceeded the applicable MOE Table 2 Standards.

**Table Abbreviations:** (<) = parameter present below the laboratory reportable detection limit [RDL]; (NV) = no value derived; (µg/g) = micrograms per gram; (ppm) = parts per million; (%LEL) = percentage of lower explosive limit; (OVM) = organic vapour meter; (MOE) = Ministry of the Environment; (NM) = not measured; (mbg) = meters below grade; (NA) = not analysed.

TABLE 9 (cont'd)

SUMMARY OF GROUNDWATER LABORATORY ANALYSES  
PETROLEUM HYDROCARBON PARAMETERS

Sample ID Laboratory ID	RDL <sup>2</sup>	UNITS	BH5 W69281	BH6 W69282	MOE Reg 153/04 Table 2 <sup>1</sup>	FB W69283	TRIP BLANK W69285	TRIP SPIKE <sup>3</sup> W69286
<b>OVM Reading</b>	-	ppm/% LEL	100% LEL	100% LEL	-	-	-	-
<b>Sampling Date</b>	-	-	8-Jan-08	8-Jan-08	-	8-Jan-08	-	-
<b>Benzene</b>	0.2	µg/L	<b>2,700</b>	<b>2,600</b>	5.0	<	<	96
<b>Toluene</b>	0.2	µg/L	<b>3,000</b>	<	24	<	<	100
<b>Ethylbenzene</b>	0.2	µg/L	<b>430</b>	<b>460</b>	2.4	<	<	100
<b>Total Xylenes</b>	0.4	µg/L	<b>950</b>	<b>1,900</b>	300	<	<	98/100 <sup>4</sup>
<b>F1 + F2 (C6-C16; excluding BTEX)</b>	100	µg/L	710	900	1000	<	<	79 <sup>5</sup>
<b>F3 + F4 (&gt;C16-C50)</b>	100	µg/L	130	140	1000	<	<	79/79 <sup>6</sup>
<b>Lead</b>	0.5	µg/L	NA	<	10	<	<	99

**Notes:** 1. The Standards shown are the MOE Ontario Regulation 153/04 Soil, Ground Water and Sediment Standards (March 9, 2004), Table 2 Full Depth Generic Site Condition Standards in a Potable Ground Water Condition for All Types of Property Use and Medium and Fine Textured Soil Conditions

2. Typical Table 2 RDL's shown. Refer to laboratory certificate of analysis for any RDL adjustments.

3. Trip spike results are expressed as a percentage of the spiked amounts.

4. Total xylenes Trip Spike recoveries are reported as o-Xylene/p+m-Xylene.

5. Only F2 Trip Spike recovery reported.

6. F3 + F4 Trip Spike recoveries are reported as F3/F4.

7. Refer to laboratory Certificates of Analysis (Appendix F) for Methods of Analysis.

8. **Underlined** - Parameter exceeded the applicable MOE Table 2 Standards.

**Table Abbreviations:** (<) = parameter present below the laboratory reportable detection limit [RDL]; (NV) = no value derived; (µg/g) = micrograms per gram; (ppm) = parts per million; (%LEL) = percentage of lower explosive limit; (OVM) = organic vapour meter; (MOE) = Ministry of the Environment; (NM) = not measured; (mbg) = meters below grade; (NA) = not analysed.

**TABLE 9 (cont'd)**  
**SUMMARY OF GROUNDWATER LABORATORY ANALYSES**  
**PETROLEUM HYDROCARBON PARAMETERS**

Sample ID Laboratory ID	RDL <sup>2</sup>	UNITS	BH7 X98955	BH8 X98956	MOE Reg 153/04 Table 2 <sup>1</sup>	FB X99117	TRIP BLANK X99118	TRIP SPIKE <sup>3</sup> X99119
OVM Reading	-	ppm/% LEL	100 ppm	175 ppm	-	-	-	-
Sampling Date	-	-	7-Apr-08	7-Apr-08	-	7-Apr-08	-	-
Benzene	0.2	µg/L	<b>46</b>	<	5.0	<	<	75
Toluene	0.2	µg/L	<	<	24	<	<	75
Ethylbenzene	0.2	µg/L	2.0	<	2.4	<	<	76
Total Xylenes	0.4	µg/L	<	0.1	300	<	<	81/87 <sup>4</sup>
F1 + F2 (C6-C16; excluding BTEX)	100	µg/L	<	<	1000	<	<	97 <sup>5</sup>
F3 + F4 (>C16-C50)	100	µg/L	<	<	1000	<	<	97/97 <sup>6</sup>
Lead	0.5	µg/L	<	<	10	<	<	98

**Notes:** 1. The Standards shown are the MOE Ontario Regulation 153/04 Soil, Ground Water and Sediment Standards (March 9, 2004), Table 2 Full Depth Generic Site Condition Standards in a Potable Ground Water Condition for All Types of Property Use and Medium and Fine Textured Soil Conditions

2. Typical Table 2 RDL's shown. Refer to laboratory certificate of analysis for any RDL adjustments.

3. Trip spike results are expressed as a percentage of the spiked amounts.

4. Total xylenes Trip Spike recoveries are reported as o-Xylene/p+m-Xylene.

5. Only F2 Trip Spike recovery reported.

6. F3 + F4 Trip Spike recoveries are reported as F3/F4.

7. Refer to laboratory Certificates of Analysis (Appendix F) for Methods of Analysis.

8. **Bold** - Parameter exceeded the applicable MOE Table 2 Standards.

**Table Abbreviations:** (<) = parameter present below the laboratory reportable detection limit [RDL]; (NV) = no value derived; (µg/g) = micrograms per gram; (ppm) = parts per million; (%LEL) = percentage of lower explosive limit; (OVM) = organic vapour meter; (MOE) = Ministry of the Environment; (NM) = not measured; (mbg) = meters below grade; (NA) = not analysed.

**TABLE 10**  
**SUMMARY OF GROUNDWATER LABORATORY ANALYSES**  
**VOLATILE ORGANIC COMPOUNDS (VOCs)**

Sample ID Laboratory ID	RDL <sup>2</sup>	UNITS	BH3 W69279	BH4 W69280	DUP (field duplicate of BH4) W69284	BH6 W69282	MOE Reg 153/04 Table 2 <sup>1</sup>
OVM Reading	-	ppm/% LEL	25% LEL	100% LEL	-	100% LEL	-
Sampling Date	-	-	8-Jan-08	8-Jan-08	8-Jan-08	8-Jan-08	-
Acetone	10	µg/L	<	<	<	<	3000
Benzene	0.1	µg/L	<b>340</b>	<b>2,000</b>	<b>2,300</b>	<b>2,600</b>	5.0
Bromodichloromethane	0.1	µg/L	<	<	<	<	5.0
Bromoform	0.2	µg/L	<	<	<	<	5.0
Bromomethane	0.5	µg/L	<	<	<	<	10
Carbon Tetrachloride	0.1	µg/L	<	<	<	<	5.0
Chlorobenzene	0.1	µg/L	<	<	<	<	30
Chloroform	0.1	µg/L	<	<	<	<	5.0
Dibromochloromethane	0.2	µg/L	<	<	<	<	5.0
1,2-Dichlorobenzene	0.2	µg/L	<	<	<	<	3.0
1,3-Dichlorobenzene	0.2	µg/L	<	<	<	<	630
1,4-Dichlorobenzene	0.2	µg/L	<	<	<	<	1.0
1,1-Dichloroethane	0.1	µg/L	<	<	<	<	70
1,2-Dichloroethane	0.1	µg/L	<	<	<	<	5.0
1,1-Dichloroethylene	0.1	µg/L	<	<	<	<	4.1
cis-1,2-Dichloroethylene	0.1	µg/L	<	<	<	<	70
trans-1,2-Dichloroethylene	0.1	µg/L	<	<	<	<	100
1,2-Dichloropropane	0.1	µg/L	<	<	<	<	5.0
cis-1,3-Dichloropropene	0.2	µg/L	<	<	<	<	NV
trans-1,3-Dichloropropene	0.2	µg/L	<	<	<	<	1.4
Ethylbenzene	0.1	µg/L	<b>630</b>	<b>660</b>	<b>930</b>	<b>460</b>	2.4
Ethylene Dibromide	0.2	µg/L	<	<	<	<	1.0
Methylene Chloride	0.5	µg/L	<	<	<	<	50
Methyl Isobutyl Ketone	5	µg/L	<	<	<	<	350
Methyl Ethyl Ketone	5	µg/L	<	<	<	<	350
Methyl t-butyl ether (MTBE)	0.2	µg/L	<	<b>2,000</b>	<b>1,800</b>	180	700
Styrene	0.1	µg/L	<	<	<	<	100
1,1,1,2-Tetrachloroethane	0.1	µg/L	<	<	<	<	5.0
1,1,2,2-Tetrachloroethane	0.1	µg/L	<	<	<	<	1.0
Tetrachloroethylene	0.1	µg/L	<	<	<	<	5.0
Toluene	0.2	µg/L	<	<	<	<	24
1,1,1-Trichloroethane	0.1	µg/L	<	<	<	<	200
1,1,2-Trichloroethane	0.2	µg/L	<	<	<	<	5.0
Trichloroethylene	0.1	µg/L	<	<	<	<	50
Vinyl Chloride	0.2	µg/L	<	<	<	<	1.3
Xylene (Total)	0.05	µg/L	<b>3,100</b>	<b>380</b>	<b>650</b>	<b>1,900</b>	300

**Notes:**

1. The Standards shown are the MOE *Ontario Regulation 153/04* Soil, Ground Water and Sediment Standards (March 9, 2004), *Table 2* Full Depth Generic Site Condition Standards in a Potable Ground Water Condition for All Types of Property Use and Medium and Fine Textured Soil Conditions.
2. Typical *Table 2* RDL's shown. Refer to laboratory certificate of analysis for any RDL adjustments.
3. Trip spike results are expressed as a percentage of the spiked amounts.
4. Total xylenes Trip Spike recoveries are reported as o-Xylene/p+m-Xylene.
5. Refer to laboratory Certificates of Analysis (Appendix F) for Methods of Analysis.
6. **Bold** - Parameter exceeded the applicable MOE *Table 2* Standards.

**Table Abbreviations:** (<) = parameter present below the laboratory reportable detection limit [RDL]; (NV)=no value derived; (µg/L) = micrograms per litre; (ppm) = parts per million; (%LEL) = percentage of lower explosive limit; (OVM) = organic vapour meter; (MOE) = Ministry of the Environment; (NM) = not measured; (mbg) = meters below grade; (NA) = not analysed.

**TABLE 10 (cont'd)**  
**SUMMARY OF GROUNDWATER LABORATORY ANALYSES**  
**VOLATILE ORGANIC COMPOUNDS (VOCs)**

Sample ID Laboratory ID	RDL <sup>2</sup>	UNITS	FB W69283	TRIP BLANK W69285	TRIP SPIKE <sup>3</sup> W69286
OVM Reading	-	ppm/% LEL	-	-	-
Sampling Date	-	-	8-Jan-08	-	-
Acetone	10	µg/L	<	<	99
Benzene	0.1	µg/L	<	<	96
Bromodichloromethane	0.1	µg/L	<	<	98
Bromoform	0.2	µg/L	<	<	110
Bromomethane	0.5	µg/L	<	<	100
Carbon Tetrachloride	0.1	µg/L	<	<	100
Chlorobenzene	0.1	µg/L	<	<	100
Chloroform	0.1	µg/L	<	<	97
Dibromochloromethane	0.2	µg/L	<	<	100
1,2-Dichlorobenzene	0.2	µg/L	<	<	98
1,3-Dichlorobenzene	0.2	µg/L	<	<	100
1,4-Dichlorobenzene	0.2	µg/L	<	<	100
1,1-Dichloroethane	0.1	µg/L	<	<	100
1,2-Dichloroethane	0.1	µg/L	<	<	94
1,1-Dichloroethylene	0.1	µg/L	<	<	100
cis-1,2-Dichloroethylene	0.1	µg/L	<	<	97
trans-1,2-Dichloroethylene	0.1	µg/L	<	<	97
1,2-Dichloropropane	0.1	µg/L	<	<	97
cis-1,3-Dichloropropene	0.2	µg/L	<	<	84
trans-1,3-Dichloropropene	0.2	µg/L	<	<	85
Ethylbenzene	0.1	µg/L	<	<	100
Ethylene Dibromide	0.2	µg/L	<	<	100
Methylene Chloride	0.5	µg/L	<	<	99
Methyl Isobutyl Ketone	5	µg/L	<	<	95
Methyl Ethyl Ketone	5	µg/L	<	<	99
Methyl t-butyl ether (MTBE)	0.2	µg/L	<	<	96
Styrene	0.1	µg/L	<	<	97
1,1,1,2-Tetrachloroethane	0.1	µg/L	<	<	98
1,1,2,2-Tetrachloroethane	0.1	µg/L	<	<	96
Tetrachloroethylene	0.1	µg/L	<	<	97
Toluene	0.2	µg/L	<	<	100
1,1,1-Trichloroethane	0.1	µg/L	<	<	99
1,1,2-Trichloroethane	0.2	µg/L	<	<	99
Trichloroethylene	0.1	µg/L	<	<	98
Vinyl Chloride	0.2	µg/L	<	<	110
Xylene (Total)	0.05	µg/L	<	<	98/100 <sup>4</sup>

**Notes:**

- The Standards shown are the MOE *Ontario Regulation 153/04* Soil, Ground Water and Sediment Standards (March 9, 2004), Table 2 Full Depth Generic Site Condition Standards in a Potable Ground Water Condition for All Types of Property Use and Medium and Fine Textured Soil Conditions.
- Typical Table 2 RDL's shown. Refer to laboratory certificate of analysis for any RDL adjustments.
- Trip spike results are expressed as a percentage of the spiked amounts.
- Total xylenes Trip Spike recoveries are reported as o-Xylene/p+m-Xylene.
- Refer to laboratory Certificates of Analysis (Appendix F) for Methods of Analysis.
- Bold** - Parameter exceeded the applicable MOE Table 2 Standards.

**Table Abbreviations:** (<) = parameter present below the laboratory reportable detection limit [RDL]; (NV)=no value derived; (µg/L) = micrograms per litre; (ppm) = parts per million; (%LEL) = percentage of lower explosive limit; (OVM) = organic vapour meter; (MOE) = Ministry of the Environment; (NM) = not measured; (mbg) = meters below grade; (NA) = not analysed.

**TABLE 10 (cont'd)**  
**SUMMARY OF GROUNDWATER LABORATORY ANALYSES**  
**VOLATILE ORGANIC COMPOUNDS (VOCs)**

Sample ID Laboratory ID	RDL <sup>2</sup>	UNITS	BH7 X98955	BH8 X98956	MOE Reg 153/04 Table 2 <sup>1</sup>	FB X99117	TRIP BLANK X99118	TRIP SPIKE <sup>3</sup> X99119
OVM Reading	-	ppm/% LEL	100 ppm	175 ppm	-	-	-	-
Sampling Date	-	-	7-Apr-08	7-Apr-08	-	7-Apr-08	-	-
Acetone	10	µg/L	NA	NA	3000	NA	NA	NA
Benzene	0.1	µg/L	<b>46</b>	<	5.0	<	<	75
Bromodichloromethane	0.1	µg/L	NA	NA	5.0	NA	NA	NA
Bromoform	0.2	µg/L	NA	NA	5.0	NA	NA	NA
Bromomethane	0.5	µg/L	NA	NA	10	NA	NA	NA
Carbon Tetrachloride	0.1	µg/L	NA	NA	5.0	NA	NA	NA
Chlorobenzene	0.1	µg/L	NA	NA	30	NA	NA	NA
Chloroform	0.1	µg/L	NA	NA	5.0	NA	NA	NA
Dibromochloromethane	0.2	µg/L	NA	NA	5.0	NA	NA	NA
1,2-Dichlorobenzene	0.2	µg/L	NA	NA	3.0	NA	NA	NA
1,3-Dichlorobenzene	0.2	µg/L	NA	NA	630	NA	NA	NA
1,4-Dichlorobenzene	0.2	µg/L	NA	NA	1.0	NA	NA	NA
1,1-Dichloroethane	0.1	µg/L	NA	NA	70	NA	NA	NA
1,2-Dichloroethane	0.1	µg/L	NA	NA	5.0	NA	NA	NA
1,1-Dichloroethylene	0.1	µg/L	NA	NA	4.1	NA	NA	NA
cis-1,2-Dichloroethylene	0.1	µg/L	NA	NA	70	NA	NA	NA
trans-1,2-Dichloroethylene	0.1	µg/L	NA	NA	100	NA	NA	NA
1,2-Dichloropropane	0.1	µg/L	NA	NA	5.0	NA	NA	NA
cis-1,3-Dichloropropene	0.2	µg/L	NA	NA	NV	NA	NA	NA
trans-1,3-Dichloropropene	0.2	µg/L	NA	NA	1.4	NA	NA	NA
Ethylbenzene	0.1	µg/L	2.0	<	2.4	<	<	76
Ethylene Dibromide	0.2	µg/L	NA	NA	1.0	NA	NA	NA
Methylene Chloride	0.5	µg/L	NA	NA	50	NA	NA	NA
Methyl Isobutyl Ketone	5	µg/L	NA	NA	350	NA	NA	NA
Methyl Ethyl Ketone	5	µg/L	NA	NA	350	NA	NA	NA
Methyl t-butyl ether (MTBE)	0.2	µg/L	7	0.7	700	<	<	NA
Styrene	0.1	µg/L	NA	NA	100	NA	NA	NA
1,1,1,2-Tetrachloroethane	0.1	µg/L	NA	NA	5.0	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.1	µg/L	NA	NA	1.0	NA	NA	NA
Tetrachloroethylene	0.1	µg/L	NA	NA	5.0	NA	NA	NA
Toluene	0.2	µg/L	<	<	24	<	<	75
1,1,1-Trichloroethane	0.1	µg/L	NA	NA	200	NA	NA	NA
1,1,2-Trichloroethane	0.2	µg/L	NA	NA	5.0	NA	NA	NA
Trichloroethylene	0.1	µg/L	NA	NA	50	NA	NA	NA
Vinyl Chloride	0.2	µg/L	NA	NA	1.3	NA	NA	NA
Xylene (Total)	0.05	µg/L	<	0.1	300	<	<	81/87 <sup>4</sup>

**Notes:**

- The Standards shown are the MOE Ontario Regulation 153/04 Soil, Ground Water and Sediment Standards (March 9, 2004), Table 2 Full Depth Generic Site Condition Standards in a Potable Ground Water Condition for All Types of Property Use and Medium and Fine Textured Soil Conditions.
- Typical Table 2 RDL's shown. Refer to laboratory certificate of analysis for any RDL adjustments.
- Trip spike results are expressed as a percentage of the spiked amounts.
- Total xylenes Trip Spike recoveries are reported as o-Xylene/p+m-Xylene.
- Refer to laboratory Certificates of Analysis (Appendix F) for Methods of Analysis.
- Bold** - Parameter exceeded the applicable MOE Table 2 Standards.

**Table Abbreviations:** (<) = parameter present below the laboratory reportable detection limit [RDL]; (NV)=no value derived; (µg/L) = micrograms per litre; (ppm) = parts per million; (%LEL) = percentage of lower explosive limit; (OVM) = organic vapour meter; (MOE) = Ministry of the Environment; (NM) = not measured; (mbg) = meters below grade; (NA) = not analysed.

**WARDROP**

*APPENDIX A*

*SITE PHOTOGRAPHS*



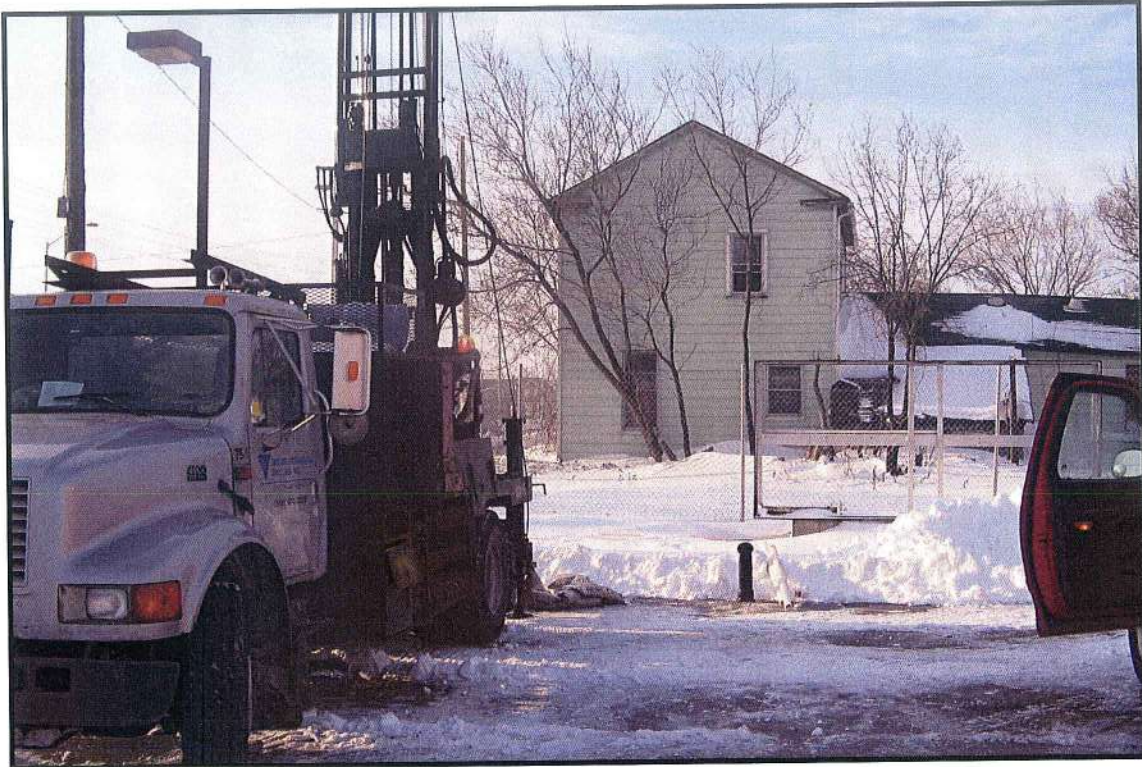


PLATE 1:

LOOKING WEST TO DRILLING OF BH5

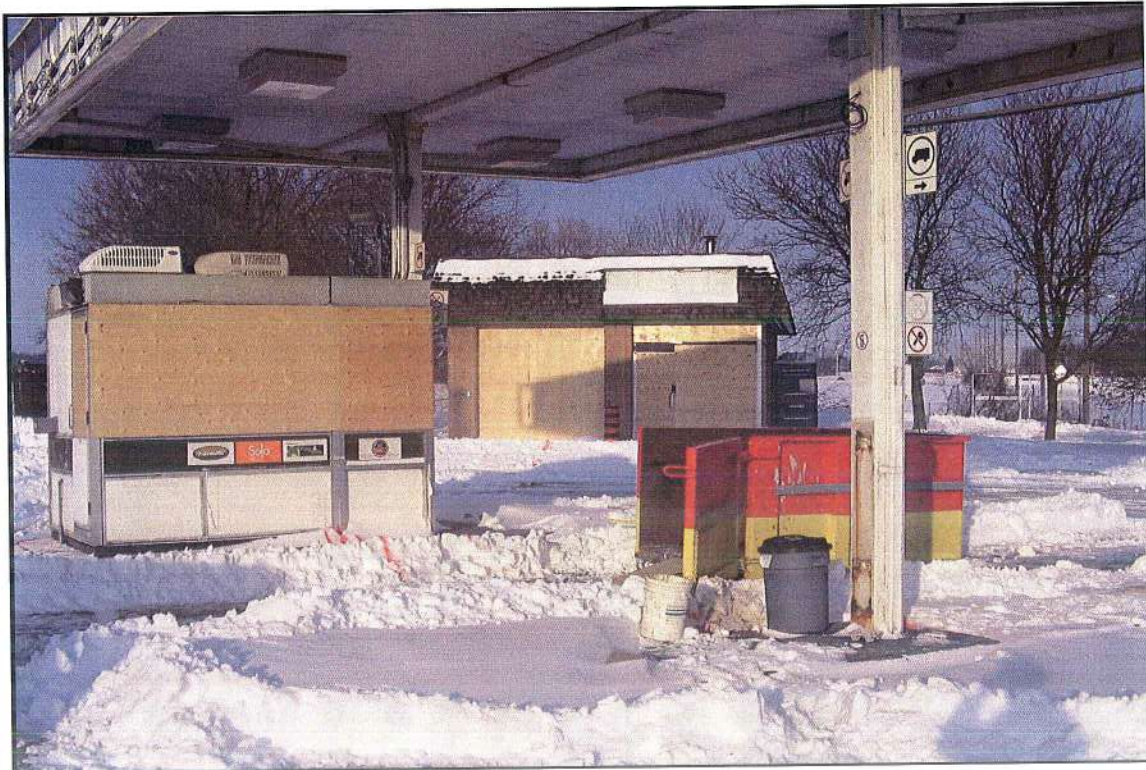


PLATE 2: LOOKING WEST TO PUMP ISLANDS AND SERVICE STATION BUILDING

**SITE PHOTOGRAPHS**  
3005 DUNDAS STREET WEST  
OAKVILLE, ONTARIO

**WARDROP**

Engineering Inc.



PLATE 3:                    LOOKING WEST TO NEIGHBOURING PROPERTY

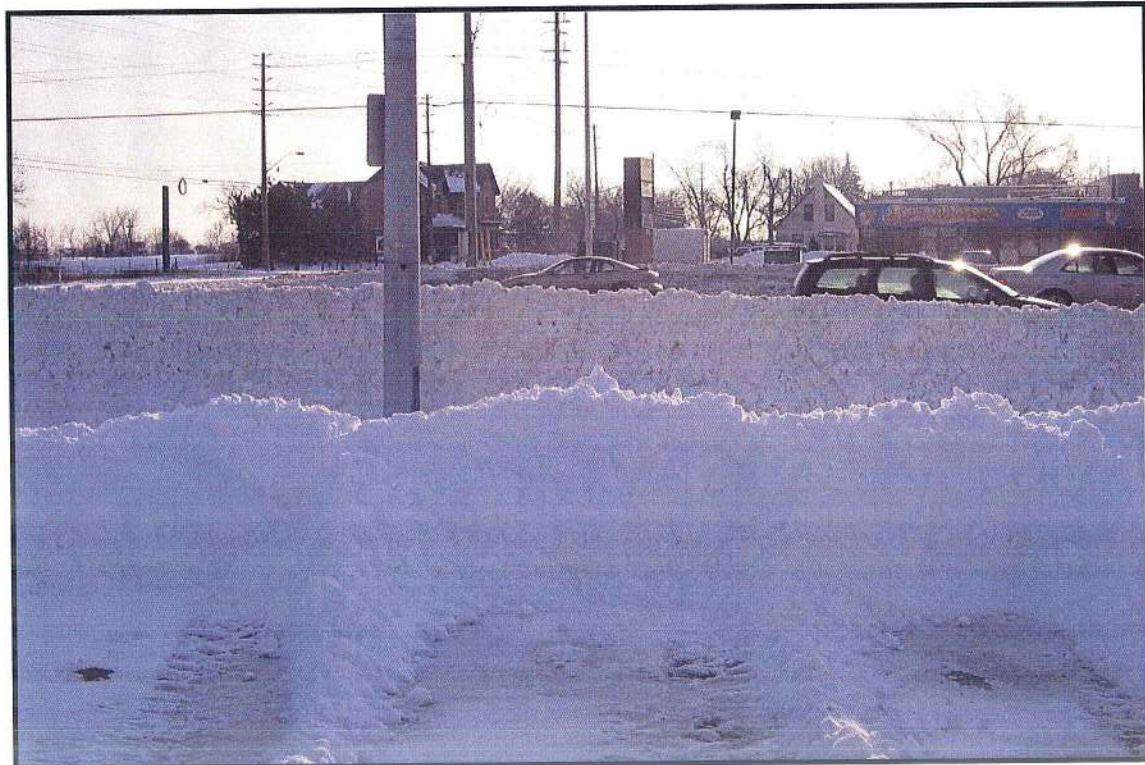


PLATE 4:                    LOOKING SOUTH TO PLAZA ACROSS DUNDAS STREET WEST

**SITE PHOTOGRAPHS**  
3005 DUNDAS STREET WEST  
OAKVILLE, ONTARIO

**WARDROP**

Engineering Inc.



PLATE 5:

VACANT LAND TO THE NORTH



PLATE 6:

RESIDENTIAL PROPERTIES TO THE EAST

**SITE PHOTOGRAPHS**  
3005 DUNDAS STREET WEST  
OAKVILLE, ONTARIO

**WARDROP**

Engineering Inc.

**WARDROP**

*APPENDIX B*

*BOREHOLE LOGS*

PROJECT: PHASE II ENVIRONMENTAL SITE ASSESSMENT		BOREHOLE NO: BH1
LOCATION: 3005 DUNDAS STREET WEST, OAKVILLE, ONTARIO		METHOD: HOLLOW STEM
PROJECT NO: 3875	DRILLING DATE: DEC/18/2007	AUGER O.D. (mm): 210
LOGGED BY: C. F.	CONTRACTOR: ENVIRONMENTAL INC. GEO	DRILLING EQUIPMENT: CME 55
VAPOUR ANALYZER: GASTECH 1238 WITHOUT RESPONSE TO METHANE		DATUM(100.00) TOP CENTRE OF MH ELEVATION: SE CORNER OF SITE

ELEVATION (metres)	WELL DATA	SYMBOL	SOIL DESCRIPTION	DEPTH			SAMPLE			VAPOUR READINGS				NOTES	
				METRES	FEET	INTERVAL	NUMBER	N-VALUE	RECOVERY %	● PPM	■ %LEL	100 20	200 40		300 60
100.56			GRASS												
100.41			TOPSOIL -Brown, Dry												
			SILTY CLAY (FILL) -Brown, Trace Gravel, Dry	1			SS1	11	60	●					
99.50				2											
				3											
99.12			-Trace Red Brick Debris	4			SS2	41	30	●					
				5											
				6			SS3	15	30	●					
				7											
			SILTY CLAY (TILL) -Green/Grey, Trace Gravel, Damp	8			SS4	7	40	●					
			-Grey Mottling, Trace Cobbles	9											
			(Water level @ 3.66 mbtop on Jan/07/08)	10											
96.75				11			SS5	20	70	●					
				12											
96.14			-Shale Fragments	13			SS6	>50	80	●					
				14											
			SHALE -Reddish Brown, Weathered, Some Clay and Trace Cobbles	15			SS7	>50	40	ND					
				16											
			END OF BOREHOLE @ 4.9 mbg DUE TO AUGER REFUSAL	17											
			Ground water sample submitted Jan/08/08 for BTEX and F1-F4 analyses using dedicated HDPE & Waterra type sampling equipment.	18											
				19											
				20											
				21											
				22											
				23											
				24											
				25											
				26											
				27											
				28											
				29											
				30											
				31											
				32											
				33											

LAB SAMPLE  
(BTEX/F1-F4/LEAD  
/VOCs/PAHs)



Engineering Inc.

DATE: 01/14/08

CHECKED BY: JC

LOCATION/FILE: Z:/PROJECTS/DRAFT/3875

PROJECT: PHASE II ENVIRONMENTAL SITE ASSESSMENT		BOREHOLE NO: BH2
LOCATION: 3005 DUNDAS STREET WEST, OAKVILLE, ONTARIO		METHOD: HOLLOW STEM
PROJECT NO: 3875	DRILLING DATE: DEC/18/2007	AUGER O.D. (mm): 210
LOGGED BY: C. F.	CONTRACTOR: ENVIRONMENTAL INC. GEO	DRILLING EQUIPMENT: CME 55
VAPOUR ANALYZER: GASTECH 1238 WITHOUT RESPONSE TO METHANE		DATUM(100.00) TOP CENTRE OF MH ELEVATION:SE CORNER OF SITE

ELEVATION (metres)	WELL DATA	SYMBOL	SOIL DESCRIPTION	DEPTH			SAMPLE			VAPOUR READINGS				NOTES	
				METRES	FEET	INTERVAL	NUMBER	N-VALUE	RECOVERY %	● PPM	■ %LEL	100 PPM	200 PPM		300 PPM
100.24			ASPHALT (75 mm)												
100.11			SAND AND GRAVEL (FILL) -Brown, Dry	1			SS1	6	20						
99.17			SILTY CLAY -Dark Brown, Trace Organics, with Some Possible Sand and Gravel Fill, Damp	2											
98.87			-Green/Grey Mottling	3			SS2	7	40						LAB SAMPLE (BTEX/F1-F4)
				4											
				5											
				6			SS3	10	70	●					LAB SAMPLE (BTEX/F1-F4)
				7											
				8											
				9			SS4	27	100	●					
97.06			(Water level @ 3.05 mbtop on Jan/07/08) -Reddish Brown	10											
				11			SS5	23	100	●					
				12											
				13											
95.82			-Greyish	14			SS6	33	70	●					
				15											
			SHALE -Reddish Brown, Weathered, Dry	16			SS7	>50	60	●					
			END OF BOREHOLE @ 5.0 mbg DUE TO AUGER REFUSAL Ground water sample submitted Jan/08/08 for BTEX and F1-F4 analyses using dedicated HDPE & Waterra type sampling equipment.	17											
				18											
				19											
				20											
				21											
				22											
				23											
				24											
				25											
				26											
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				29											
				30											
				31											
				32											
				33											



Engineering Inc.

DATE: 01/14/08

CHECKED BY: JC

LOCATION/FILE: Z:/PROJECTS/DRAFT/3875

PROJECT: PHASE II ENVIRONMENTAL SITE ASSESSMENT		BOREHOLE NO: BH3
LOCATION: 3005 DUNDAS STREET WEST, OAKVILLE, ONTARIO		METHOD: HOLLOW STEM
PROJECT NO: 3875	DRILLING DATE: DEC/17/2007	AUGER O.D. (mm): 210
LOGGED BY: C. F.	CONTRACTOR: GEO ENVIRONMENTAL INC.	DRILLING EQUIPMENT: CME 55
VAPOUR ANALYZER: GASTECH 1238 WITHOUT RESPONSE TO METHANE		DATUM(100.00) TOP CENTRE OF MH ELEVATION: SE CORNER OF SITE

ELEVATION (metres)	WELL DATA	SYMBOL	SOIL DESCRIPTION	DEPTH		SAMPLE			VAPOUR READINGS				NOTES	
				METRES	FEET	INTERVAL	NUMBER	N-VALUE	RECOVERY %	● PPM		■ %LEL		
										100	200	300		400
99.95														
99.78			ASPHALT (100 mm)											
99.55			SAND AND GRAVEL (FILL) -Brown, Some Cobbles, Dry	1	1		SS1	5	5		■			
99.34				2	2									
99.19			SILTY CLAY (FILL) -Black, Trace Organics and Brick Debris, Some Cobbles, Saturated	1	3		SS2	5	10			■		LAB SAMPLE (BTEX/F1-F4) ODOURS & STAINING
				4	4									
			SILTY CLAY (TILL) -Brown and Black, Trace Organics, Damp  (Water level @ 0.23 mbtop on Jan/07/08)	5	5									ODOURS & STAINING LAB SAMPLE (BTEX/F1-F4) REG. 558
				6	6		SS3	3	70		■			
				7	7									
				2	8									
			-Brown/Grey, Dry to Damp	8	8									
				9	9		SS4	21	60		●			LAB SAMPLE (BTEX/F1-F4)
				10	10									
				3	11		SS5	32	75		●			
				11	11									
				12	12									
96.14				4	13		SS6	>50	-		●			
			SHALE -Reddish Brown, Weathered, Some Clay	13	13									
				14	14									
			END OF BOREHOLE @ 4.3 mbg DUE TO AUGER REFUSAL	15	15									
			Ground water sample submitted Jan/08/08 for VOCs, F1-F4, and Lead analyses using dedicated HDPE & Waterra type sampling equipment.	16	16									
				5	17									
				17	17									
				18	18									
				19	19									
				6	20									
				20	20									
				21	21									
				22	22									
				7	23									
				23	23									
				24	24									
				25	25									
				8	26									
				26	26									
				27	27									
				28	28									
				9	29									
				29	29									
				30	30									
				31	31									
				32	32									
				10	33									



Engineering Inc.

DATE: 01/14/08

CHECKED BY: Jc

LOCATION/FILE: Z:/PROJECTS/DRAFT/3875

PROJECT: PHASE II ENVIRONMENTAL SITE ASSESSMENT		BOREHOLE NO: BH4
LOCATION: 3005 DUNDAS STREET WEST, OAKVILLE, ONTARIO		METHOD: HOLLOW STEM
PROJECT NO: 3875	DRILLING DATE: DEC/17/2007	AUGER O.D. (mm): 210
LOGGED BY: C. F.	CONTRACTOR: ENVIRONMENTAL INC. GEO	DRILLING EQUIPMENT: CME 55
VAPOUR ANALYZER: GASTECH 1238 WITHOUT RESPONSE TO METHANE		DATUM(100.00) TOP CENTRE OF MH ELEVATION: SE CORNER OF SITE

ELEVATION (metres)	WELL DATA	SYMBOL	SOIL DESCRIPTION	DEPTH		SAMPLE			VAPOUR READINGS				NOTES		
				METRES	FEET	INTERVAL	NUMBER	N-VALUE	RECOVERY %	● PPM	■ %LEL	100 PPM		200 PPM	300 PPM
100.14															
100.01			ASPHALT (75 mm)												
99.68			SAND AND GRAVEL (FILL) -Brown, Some Clay, Dry	1			SS1	23	60		●				
99.53			(Water level @ 0.85 m top on Jan/07/08)	2											
99.16			-Reddish Brown with Shale Fragments	3			SS2	45	50		●				
			SILTY CLAY (TILL) -Brown, Trace Saturated Sand Seams, Damp	4											
			-Green and Grey Mottling, Dry Trace Red Shale Fragments, Damp	5			SS3	8	80		●				
			-Shale Layers	6											
				7											
				8			SS4	20	70		●				
				9											
				10			SS5	36	50		●				
96.48				11											
				12			SS6	-	-		-				
			END OF BOREHOLE @ 4.3 mbg DUE TO AUGER REFUSAL	13											
			Ground water sample submitted Jan/08/08 for VOCs, F1-F4, and Lead analyses using dedicated HDPE & Waterra type sampling equipment.	14											
				15											
				16											
				17											
				18											
				19											
				20											
				21											
				22											
				23											
				24											
				25											
				26											
				27											
				28											
				29											
				30											
				31											
				32											
				33											



PROJECT: PHASE II ENVIRONMENTAL SITE ASSESSMENT		BOREHOLE NO: BH5
LOCATION: 3005 DUNDAS STREET WEST, OAKVILLE, ONTARIO		METHOD: HOLLOW STEM
PROJECT NO: 3875	DRILLING DATE: DEC/18/2007	AUGER O.D. (mm): 210
LOGGED BY: C. F.	CONTRACTOR: ENVIRONMENTAL INC. GEO	DRILLING EQUIPMENT: CME 55
VAPOUR ANALYZER: GASTECH 1238 WITHOUT RESPONSE TO METHANE		DATUM(100.00) TOP CENTRE OF MH ELEVATION: SE CORNER OF SITE

ELEVATION (metres)	WELL DATA	SYMBOL	SOIL DESCRIPTION	DEPTH		SAMPLE			VAPOUR READINGS				NOTES		
				METRES	FEET	INTERVAL	NUMBER	N-VALUE	RECOVERY %	● PPM		■ %LEL			
										100	200	300		400	PPM
100.06			ASPHALT (75 mm)											PHC ODOURS	
99.96			SAND, GRAVEL AND CLAY (FILL) -Brown, Dry	1			SS1	10	30						
99.00			SILTY CLAY (TILL) -Brown with Green And Grey Mottling, Dry	2			SS2	11	50						PHC ODOURS LAB SAMPLE (BTEX/F1-F4)
98.69			-Reddish Brown, Fractured Shale Layers, Dry	3			SS3	22	80						
			-Shale Fragments	4			SS4	30	80	●					LAB SAMPLE (BTEX/F1-F4)
			(Water level @ 3.85 mbtop on Jan/07/08)	5			SS5	>50	60	●					
96.11				6			SS6	>50	40	●					
95.64			SHALE	7			SS7	>50	70	●					
			END OF BOREHOLE @ 5.0 mbg DUE TO AUGER REFUSAL	8											
			Ground water sample submitted Jan/08/08 for BTEX and F1-F4 analyses using dedicated HDPE & Waterra type sampling equipment.	9											
				10											
				11											
				12											
				13											
				14											
				15											
				16											
				17											
				18											
				19											
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				25											
				26											
				27											
				28											
				29											
				30											
				31											
				32											
				33											

PROJECT: PHASE II ENVIRONMENTAL SITE ASSESSMENT		BOREHOLE NO: BH6
LOCATION: 3005 DUNDAS STREET WEST, OAKVILLE, ONTARIO		METHOD: HOLLOW STEM
PROJECT NO: 3875	DRILLING DATE: DEC/18/2007	AUGER O.D. (mm): 210
LOGGED BY: C. F.	CONTRACTOR: ENVIRONMENTAL INC. GEO	DRILLING EQUIPMENT: CME 55
VAPOUR ANALYZER: GASTECH 1238 WITHOUT RESPONSE TO METHANE		DATUM(100.00) TOP CENTRE OF MH ELEVATION: SE CORNER OF SITE

ELEVATION (metres)	WELL DATA	SYMBOL	SOIL DESCRIPTION	DEPTH		SAMPLE			VAPOUR READINGS				NOTES	
				METRES	FEET	INTERVAL	NUMBER	N-VALUE	RECOVERY %	● PPM	■ %LEL	100 PPM 20 %LEL		200 PPM 40 %LEL
100.40														
100.25			ASPHALT (75 mm)											
99.93			SAND AND GRAVEL (FILL) -Brown, Some Clay, Dry		1		SS1	26	20					LAB SAMPLE (BTEX/F1-F4)
99.80			-Reddish Brown with Shale Fragments		2									
				1	3		SS2	6	30	■				
					4									
			SILTY CLAY (TILL) -Brown, Green and Grey Mottling, Trace Red Shale Fragments, Damp		5									LAB SAMPLE (BTEX/F1-F4)
98.43			(Water level @ 1.82 mbtop on Jan/07/08)	2	6		SS3	20	80	●				
					7									
					8									
			-Shale Layers		9		SS4	22	100	●				GRAIN SIZE ANALYSIS
					10									
					11		SS5	41	100	●				
96.73					12									
					13		SS6	>50	70	●				
					14									
			END OF BOREHOLE @ 4.4 mbg DUE TO AUGER REFUSAL		15									
			Ground water sample submitted Jan/08/08 for VOCs, F1-F4, and Lead analyses using dedicated HDPE & Waterra type sampling equipment.		16									
					17									
					18									
					19									
					20									
					21									
					22									
					23									
					24									
					25									
					26									
					27									
					28									
					29									
					30									
					31									
					32									
					33									

PROJECT: PHASE II ENVIRONMENTAL SITE ASSESSMENT		BOREHOLE NO: BH7
LOCATION: 3005 DUNDAS STREET WEST, OAKVILLE, ONTARIO		METHOD: HYDRO-VACUUM AND HOLLOW STEM
PROJECT NO: 3875	DRILLING DATE: APRIL 3, 2008	
LOGGED BY: K.O.	CONTRACTOR: DIRECT LINE/ GEDI	AUGER O.D. (mm): 210
VAPOUR ANALYZER: GASTECH 1238 WITHOUT RESPONSE TO METHANE		DATUM (100.00) TOP CENTRE OF MH ELEVATION: SE CORNER OF SITE

ELEVATION (metres)	WELL DATA	SYMBOL	SOIL DESCRIPTION	DEPTH		SAMPLE			VAPOUR READINGS				NOTES	
				METRES	FEET	INTERVAL	NUMBER	N-VALUE	RECOVERY %	● PPM		■ %LEL		
									100	200	300	400		
									20	40	60	80	%LEL	
100.74														
100.58			ASPHALT (75 mm)				AS1	-	-	●				DAYLIGHTED TO 2.1 m HAND AUGER SAMPLES TAKEN
			LIMESTONE SCREENING FILL				AS2	-	-	●				
100.28			SILT				AS3	-	-	●				
100.13			Brown, Some Sand and Gravel, Trace Clay, Damp				AS4	-	-	●				
			(Water level @ 0.95 mbtop on May 6, 2008)				AS5	-	-	●				
99.63			-Wet				AS6	-	-	●				
			SILTY CLAY				AS7	-	-	●				
			Dark Brown, Some Sand and Gravel, Wet							●				
			-Brown/Grey Mottling, Trace Oxidation, Moist							●				
							SS1	31	80	●				
										●			LAB SAMPLE (BTEX/F1-F4/Lead)	
							SS2	49	50	●				
97.08			-Brown, Trace Gravel, Moist, Red Weathered Shale Fragments at Tip							●				
							SS3	63	80	●				
			END OF BOREHOLE @ 4.4 mbg											
			(On April 8, 2008 a ground water sample was collected using dedicated HDPE & Waterra type sampling equipment and was submitted for BTEX, F1-F4, and Lead analyses)											



*APPENDIX C*

*LABORATORY DATA PACKAGE*

Your Project #: 3875  
Site: 3005 DUNDAS ST.W,OAKVILLE  
Your C.O.C. #: 00507450

**Attention: Jeff Muir/Rene De Vries**  
CPG-Franz Inc  
15-250 Shields Crt  
Markham, ON  
L3R 9W7

**Report Date: 2008/01/03**

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: A7E0814**  
**Received: 2007/12/19, 14:09**

Sample Matrix: Soil  
# Samples Received: 12

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Soil	11	2007/12/24	2007/12/28	CAM SOP-00315	CCME CWS
Petroleum Hydrocarbons F2-F4 in Soil	11	2007/12/28	2007/12/30	CAM SOP-00316	CCME CWS
Total Metals Analysis by ICP	1	2007/12/23	2007/12/24	CAM SOP-00408	EPA 6010
MOISTURE	11	N/A	2007/12/24	Ont SOP-0114	MOE HANDBOOK(1983)
PAH Compounds in Soil by GC/MS (SIM)	1	2007/12/21	2007/12/21	SOP - 00318	EPA 8270
pH CaCl2 EXTRACT	2	N/A	2007/12/31	Ont SOP-0067	4500-H+B
Sieve, 75um $\phi$	1	N/A	2008/01/02	Ont SOP 0929	
Volatile Organic Compounds in Soil	1	N/A	2007/12/28	CAM SOP-00226	EPA 8260 modified

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) The Sieve test has been validated in accordance with ISO Guide 17025 requirements. SCC accreditation pending.



Sam Lyons  
03 Jan 2008 12:52:45 -05:00

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

KRISTEN BURMEISTER, Project Manager  
Email: Kristen.Burmeister@maxxamanalytics.com  
Phone# (905) 817-5700 Ext:5816

=====  
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 1

Maxxam Job #: A7E0814  
Report Date: 2008/01/03

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W,OAKVILLE  
Sampler Initials:

**O'REG 153 PETROLEUM HYDROCARBONS (SOIL)**

Maxxam ID		W50364	W50365	W50366		
Sampling Date		2007/12/18 11:00	2007/12/18 10:00	2007/12/18 10:15		
COC Number		00507450	00507450	00507450		
	<b>Units</b>	<b>BH1-SS4</b>	<b>BH2-SS2</b>	<b>BH2-SS3</b>	<b>RDL</b>	<b>QC Batch</b>

<b>INORGANICS</b>						
Moisture	%	18	20	15	0.2	1432487
<b>F1 PHC and BTEX</b>						
Benzene	ug/g	ND	0.98	ND	0.02	1432481
Toluene	ug/g	ND	0.09	ND	0.02	1432481
Ethylbenzene	ug/g	ND	0.92	ND	0.02	1432481
o-Xylene	ug/g	ND	ND	ND	0.02	1432481
p+m-Xylene	ug/g	ND	0.82	ND	0.04	1432481
Total Xylenes	ug/g	ND	0.82	ND	0.04	1432481
F1 (C6-C10)	ug/g	ND	40	ND	10	1432481
F1 (C6-C10) - BTEX	ug/g	ND	37	ND	10	1432481
<b>F2-F4 PHC</b>						
F2 (C10-C16 Hydrocarbons)	ug/g	ND	ND	ND	10	1433568
F3 (C16-C34 Hydrocarbons)	ug/g	ND	ND	ND	10	1433568
F4 (C34-C50 Hydrocarbons)	ug/g	ND	ND	ND	10	1433568
Reached Baseline at C50	ug/g	Yes	Yes	Yes		1433568
<b>Surrogate Recovery (%)</b>						
1,4-Difluorobenzene	%	105	106	104		1432481
4-Bromofluorobenzene	%	97	97	95		1432481
D10-Ethylbenzene	%	121	97	117		1432481
D4-1,2-Dichloroethane	%	92	93	92		1432481
o-Terphenyl	%	90	90	91		1433568

ND = Not detected  
RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A7E0814  
Report Date: 2008/01/03

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W,OAKVILLE  
Sampler Initials:

**O'REG 153 PETROLEUM HYDROCARBONS (SOIL)**

Maxxam ID		W50367		W50368		
Sampling Date		2007/12/17 12:00		2007/12/17 12:15		
COC Number		00507450		00507450		
	<b>Units</b>	<b>BH3-SS2</b>	<b>RDL</b>	<b>BH3-SS4</b>	<b>RDL</b>	<b>QC Batch</b>

<b>INORGANICS</b>						
Moisture	%	37	0.2	12	0.2	1432487
<b>F1 PHC and BTEX</b>						
Benzene	ug/g	6.2	0.2	ND	0.02	1432481
Toluene	ug/g	1.6	0.2	ND	0.02	1432481
Ethylbenzene	ug/g	110	0.2	0.15	0.02	1432481
o-Xylene	ug/g	40	0.2	0.10	0.02	1432481
p+m-Xylene	ug/g	400	0.4	0.64	0.04	1432481
Total Xylenes	ug/g	440	0.4	0.73	0.04	1432481
F1 (C6-C10)	ug/g	4600	100	11	10	1432481
F1 (C6-C10) - BTEX	ug/g	4100	100	10	10	1432481
<b>F2-F4 PHC</b>						
F2 (C10-C16 Hydrocarbons)	ug/g	1900	10	12	10	1433568
F3 (C16-C34 Hydrocarbons)	ug/g	360	10	26	10	1433568
F4 (C34-C50 Hydrocarbons)	ug/g	92	10	ND	10	1433568
Reached Baseline at C50	ug/g	Yes		Yes		1433568
<b>Surrogate Recovery (%)</b>						
1,4-Difluorobenzene	%	109		105		1432481
4-Bromofluorobenzene	%	95		96		1432481
D10-Ethylbenzene	%	138 (1)		113		1432481
D4-1,2-Dichloroethane	%	93		93		1432481
o-Terphenyl	%	92		87		1433568

ND = Not detected  
RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch  
( 1 ) The extraction surrogate recovery is outside the acceptance limits due to matrix interference.



Maxxam Job #: A7E0814  
Report Date: 2008/01/03

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W,OAKVILLE  
Sampler Initials:

**O'REG 153 PETROLEUM HYDROCARBONS (SOIL)**

Maxxam ID		W50369		W50370		
Sampling Date		2007/12/17 14:00		2007/12/18 08:00		
COC Number		00507450		00507450		
	<b>Units</b>	<b>BH4-SS3</b>	<b>RDL</b>	<b>BH5-SS2</b>	<b>RDL</b>	<b>QC Batch</b>
<b>INORGANICS</b>						
Moisture	%	19	0.2	12	0.2	1432487
<b>F1 PHC and BTEX</b>						
Benzene	ug/g	0.42	0.02	5.6	0.2	1432481
Toluene	ug/g	ND	0.02	65	0.2	1432481
Ethylbenzene	ug/g	0.46	0.02	26	0.2	1432481
o-Xylene	ug/g	ND	0.02	44	0.2	1432481
p+m-Xylene	ug/g	ND	0.04	110	0.4	1432481
Total Xylenes	ug/g	ND	0.04	160	0.4	1432481
F1 (C6-C10)	ug/g	17	10	410	100	1432481
F1 (C6-C10) - BTEX	ug/g	16	10	160	100	1432481
<b>F2-F4 PHC</b>						
F2 (C10-C16 Hydrocarbons)	ug/g	ND	10	16	10	1433568
F3 (C16-C34 Hydrocarbons)	ug/g	ND	10	ND	10	1433568
F4 (C34-C50 Hydrocarbons)	ug/g	ND	10	ND	10	1433568
Reached Baseline at C50	ug/g	Yes		Yes		1433568
<b>Surrogate Recovery (%)</b>						
1,4-Difluorobenzene	%	102		96		1432481
4-Bromofluorobenzene	%	96		103		1432481
D10-Ethylbenzene	%	119		183 (1)		1432481
D4-1,2-Dichloroethane	%	93		104		1432481
o-Terphenyl	%	90		88		1433568
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch ( 1 ) The extraction surrogate recovery is outside the acceptance limits due to matrix interference.						

Maxxam Job #: A7E0814  
Report Date: 2008/01/03

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W,OAKVILLE  
Sampler Initials:

**O'REG 153 PETROLEUM HYDROCARBONS (SOIL)**

Maxxam ID		W50371		W50372		
Sampling Date		2007/12/18 08:10		2007/12/18 09:00		
COC Number		00507450		00507450		
	<b>Units</b>	<b>BH5-SS4</b>	<b>RDL</b>	<b>BH6-SS1</b>	<b>RDL</b>	<b>QC Batch</b>

<b>INORGANICS</b>						
Moisture	%	10	0.2	4.4	0.2	1432487
<b>F1 PHC and BTEX</b>						
Benzene	ug/g	ND	0.02	11	0.2	1432481
Toluene	ug/g	0.08	0.02	1.7	0.2	1432481
Ethylbenzene	ug/g	ND	0.02	62	0.2	1432481
o-Xylene	ug/g	ND	0.02	3.6	0.2	1432481
p+m-Xylene	ug/g	0.06	0.04	260	0.4	1432481
Total Xylenes	ug/g	0.06	0.04	260	0.4	1432481
F1 (C6-C10)	ug/g	ND	10	2400	100	1432481
F1 (C6-C10) - BTEX	ug/g	ND	10	2000	100	1432481
<b>F2-F4 PHC</b>						
F2 (C10-C16 Hydrocarbons)	ug/g	ND	10	190	10	1433568
F3 (C16-C34 Hydrocarbons)	ug/g	ND	10	3100	10	1433568
F4 (C34-C50 Hydrocarbons)	ug/g	ND	10	1900	10	1433568
Reached Baseline at C50	ug/g	Yes		Yes		1433568
<b>Surrogate Recovery (%)</b>						
1,4-Difluorobenzene	%	103		106		1432481
4-Bromofluorobenzene	%	96		95		1432481
D10-Ethylbenzene	%	119		107		1432481
D4-1,2-Dichloroethane	%	95		93		1432481
o-Terphenyl	%	95		92		1433568
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A7E0814  
Report Date: 2008/01/03

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W,OAKVILLE  
Sampler Initials:

**O'REG 153 PETROLEUM HYDROCARBONS (SOIL)**

Maxxam ID		W50373	W50375		
Sampling Date		2007/12/18 09:10			
COC Number		00507450	00507450		
	<b>Units</b>	<b>BH6-SS3</b>	<b>DUP</b>	<b>RDL</b>	<b>QC Batch</b>

<b>INORGANICS</b>					
Moisture	%	12	16	0.2	1432487
<b>F1 PHC and BTEX</b>					
Benzene	ug/g	ND	2.0	0.02	1432481
Toluene	ug/g	ND	23	0.02	1432481
Ethylbenzene	ug/g	0.06	9.7	0.02	1432481
o-Xylene	ug/g	ND	16	0.02	1432481
p+m-Xylene	ug/g	0.26	37	0.04	1432481
Total Xylenes	ug/g	0.26	53	0.04	1432481
F1 (C6-C10)	ug/g	ND	280	10	1432481
F1 (C6-C10) - BTEX	ug/g	ND	190	10	1432481
<b>F2-F4 PHC</b>					
F2 (C10-C16 Hydrocarbons)	ug/g	ND	98	10	1433568
F3 (C16-C34 Hydrocarbons)	ug/g	ND	13	10	1433568
F4 (C34-C50 Hydrocarbons)	ug/g	ND	ND	10	1433568
Reached Baseline at C50	ug/g	Yes	Yes		1433568
<b>Surrogate Recovery (%)</b>					
1,4-Difluorobenzene	%	104	106		1432481
4-Bromofluorobenzene	%	95	95		1432481
D10-Ethylbenzene	%	113	118		1432481
D4-1,2-Dichloroethane	%	93	95		1432481
o-Terphenyl	%	110	113		1433568
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: A7E0814  
Report Date: 2008/01/03

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W,OAKVILLE  
Sampler Initials:

**RESULTS OF ANALYSES OF SOIL**

Maxxam ID		W50367	W50371	W50374		
Sampling Date		2007/12/17 12:00	2007/12/18 08:10	2007/12/18 09:15		
COC Number		00507450	00507450	00507450		
	<b>Units</b>	<b>BH3-SS2</b>	<b>BH5-SS4</b>	<b>BH6-SS4</b>	<b>RDL</b>	<b>QC Batch</b>

<b>INORGANICS</b>						
Available (CaCl2) pH	pH	7.33	7.78			1434134
<b>MISCELLANEOUS</b>						
Grain Size	%			FINE	N/A	1434287
Sieve - #200 (<0.075mm)	%			85	N/A	1434287
Sieve - #200 (>0.075mm)	%			15	N/A	1434287

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A7E0814  
Report Date: 2008/01/03

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W,OAKVILLE  
Sampler Initials:

**ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)**

Maxxam ID		W50364		
Sampling Date		2007/12/18 11:00		
COC Number		00507450		
	<b>Units</b>	<b>BH1-SS4</b>	<b>RDL</b>	<b>QC Batch</b>

<b>METALS</b>				
Acid Extractable Lead (Pb)	ug/g	13	5	1432255

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A7E0814  
Report Date: 2008/01/03

CPG-Franz Inc  
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Project name: 3005 DUNDAS ST.W,OAKVILLE  
Sampler Initials:

**SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)**

Maxxam ID		W50364		
Sampling Date		2007/12/18 11:00		
COC Number		00507450		
	<b>Units</b>	<b>BH1-SS4</b>	<b>RDL</b>	<b>QC Batch</b>

<b>PAHs</b>				
Acenaphthene	ug/g	ND	0.01	1431665
Acenaphthylene	ug/g	ND	0.005	1431665
Anthracene	ug/g	ND	0.005	1431665
Benzo(a)anthracene	ug/g	ND	0.01	1431665
Benzo(a)pyrene	ug/g	ND	0.005	1431665
Benzo(b/j)fluoranthene	ug/g	ND	0.005	1431665
Benzo(g,h,i)perylene	ug/g	ND	0.02	1431665
Benzo(k)fluoranthene	ug/g	ND	0.01	1431665
Chrysene	ug/g	ND	0.01	1431665
Dibenz(a,h)anthracene	ug/g	ND	0.02	1431665
Fluoranthene	ug/g	0.005	0.005	1431665
Fluorene	ug/g	ND	0.005	1431665
Indeno(1,2,3-cd)pyrene	ug/g	ND	0.02	1431665
1-Methylnaphthalene	ug/g	ND	0.005	1431665
2-Methylnaphthalene	ug/g	ND	0.005	1431665
Naphthalene	ug/g	ND	0.005	1431665
Phenanthrene	ug/g	ND	0.005	1431665
Pyrene	ug/g	ND	0.005	1431665
<b>Surrogate Recovery (%)</b>				
D10-Anthracene	%	92		1431665
D14-Terphenyl (FS)	%	102		1431665
D7-Quinoline	%	49		1431665
D8-Acenaphthylene	%	60		1431665
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: A7E0814  
Report Date: 2008/01/03

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W,OAKVILLE  
Sampler Initials:

**VOLATILE ORGANICS BY GC/MS (SOIL)**

Maxxam ID		W50364		
Sampling Date		2007/12/18 11:00		
COC Number		00507450		
	<b>Units</b>	<b>BH1-SS4</b>	<b>RDL</b>	<b>QC Batch</b>

<b>VOLATILES</b>				
Acetone (2-Propanone)	ug/g	0.1	0.1	1433232
Benzene	ug/g	0.004	0.002	1433232
Bromodichloromethane	ug/g	ND	0.002	1433232
Bromoform	ug/g	ND	0.002	1433232
Bromomethane	ug/g	ND	0.003	1433232
Carbon Tetrachloride	ug/g	ND	0.002	1433232
Chlorobenzene	ug/g	ND	0.002	1433232
Chloroform	ug/g	ND	0.002	1433232
Dibromochloromethane	ug/g	ND	0.002	1433232
1,2-Dichlorobenzene	ug/g	0.010	0.002	1433232
1,3-Dichlorobenzene	ug/g	ND	0.002	1433232
1,4-Dichlorobenzene	ug/g	ND	0.002	1433232
1,1-Dichloroethane	ug/g	ND	0.002	1433232
1,2-Dichloroethane	ug/g	ND	0.002	1433232
1,1-Dichloroethylene	ug/g	ND	0.002	1433232
cis-1,2-Dichloroethylene	ug/g	ND	0.002	1433232
trans-1,2-Dichloroethylene	ug/g	ND	0.002	1433232
1,2-Dichloropropane	ug/g	ND	0.002	1433232
cis-1,3-Dichloropropene	ug/g	ND	0.002	1433232
trans-1,3-Dichloropropene	ug/g	ND	0.002	1433232
Ethylbenzene	ug/g	ND	0.002	1433232
Ethylene Dibromide	ug/g	ND	0.002	1433232
Methylene Chloride(Dichloromethane)	ug/g	ND	0.003	1433232
Methyl Isobutyl Ketone	ug/g	ND	0.025	1433232
Methyl Ethyl Ketone (2-Butanone)	ug/g	ND	0.025	1433232
Methyl t-butyl ether (MTBE)	ug/g	0.002	0.002	1433232
Styrene	ug/g	ND	0.002	1433232
1,1,1,2-Tetrachloroethane	ug/g	ND	0.002	1433232
1,1,2,2-Tetrachloroethane	ug/g	ND	0.002	1433232
Tetrachloroethylene	ug/g	ND	0.002	1433232
Toluene	ug/g	0.008	0.002	1433232

ND = Not detected  
RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A7E0814  
Report Date: 2008/01/03

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W,OAKVILLE  
Sampler Initials:

**VOLATILE ORGANICS BY GC/MS (SOIL)**

Maxxam ID		W50364		
Sampling Date		2007/12/18 11:00		
COC Number		00507450		
	<b>Units</b>	<b>BH1-SS4</b>	<b>RDL</b>	<b>QC Batch</b>

1,1,1-Trichloroethane	ug/g	ND	0.002	1433232
1,1,2-Trichloroethane	ug/g	ND	0.002	1433232
Trichloroethylene	ug/g	ND	0.002	1433232
Vinyl Chloride	ug/g	ND	0.002	1433232
p+m-Xylene	ug/g	0.009	0.002	1433232
o-Xylene	ug/g	ND	0.002	1433232
Xylene (Total)	ug/g	0.009	0.002	1433232
<b>Surrogate Recovery (%)</b>				
4-Bromofluorobenzene	%	93		1433232
D4-1,2-Dichloroethane	%	102		1433232
D8-Toluene	%	108		1433232

ND = Not detected  
RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch



Maxxam Job #: A7E0814  
Report Date: 2008/01/03

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W,OAKVILLE  
Sampler Initials:

**GENERAL COMMENTS**

**Results relate only to the items tested.**

CPG-Franz Inc  
Attention: Jeff Muir/Rene De Vries  
Client Project #: 3875  
P.O. #:  
Project name: 3005 DUNDAS ST.W,OAKVILLE

Quality Assurance Report  
Maxxam Job Number: MA7E0814

QA/QC Batch	Date Analyzed	Parameter	Value	Recovery	Units	QC Limits	
Num Init QC Type	yyyy/mm/dd						
1431665 PMO MATRIX SPIKE	2007/12/21	D10-Anthracene		81	%	30 - 130	
	2007/12/21	D14-Terphenyl (FS)		103	%	30 - 130	
	2007/12/21	D7-Quinoline		79	%	30 - 130	
	2007/12/21	D8-Acenaphthylene		86	%	30 - 130	
	2007/12/21	Acenaphthene		87	%	30 - 130	
	2007/12/21	Acenaphthylene		92	%	30 - 130	
	2007/12/21	Anthracene		102	%	30 - 130	
	2007/12/21	Benzo(a)anthracene		103	%	30 - 130	
	2007/12/21	Benzo(a)pyrene		79	%	30 - 130	
	2007/12/21	Benzo(b/f)fluoranthene		77	%	30 - 130	
	2007/12/21	Benzo(g,h,i)perylene		89	%	30 - 130	
	2007/12/21	Benzo(k)fluoranthene		106	%	30 - 130	
	2007/12/21	Chrysene		99	%	30 - 130	
	2007/12/21	Dibenz(a,h)anthracene		72	%	30 - 130	
	2007/12/21	Fluoranthene		112	%	30 - 130	
	2007/12/21	Fluorene		86	%	30 - 130	
	2007/12/21	Indeno(1,2,3-cd)pyrene		66	%	30 - 130	
	2007/12/21	1-Methylnaphthalene		100	%	30 - 130	
	2007/12/21	2-Methylnaphthalene		98	%	30 - 130	
	2007/12/21	Naphthalene		103	%	30 - 130	
	2007/12/21	Phenanthrene		108	%	30 - 130	
	2007/12/21	Pyrene		107	%	30 - 130	
	Spiked Blank	2007/12/21	D10-Anthracene		103	%	30 - 130
		2007/12/21	D14-Terphenyl (FS)		105	%	30 - 130
		2007/12/21	D7-Quinoline		86	%	30 - 130
		2007/12/21	D8-Acenaphthylene		96	%	30 - 130
		2007/12/21	Acenaphthene		87	%	30 - 130
		2007/12/21	Acenaphthylene		97	%	30 - 130
		2007/12/21	Anthracene		102	%	30 - 130
		2007/12/21	Benzo(a)anthracene		102	%	30 - 130
2007/12/21		Benzo(a)pyrene		93	%	30 - 130	
2007/12/21		Benzo(b/f)fluoranthene		92	%	30 - 130	
2007/12/21		Benzo(g,h,i)perylene		100	%	30 - 130	
2007/12/21		Benzo(k)fluoranthene		116	%	30 - 130	
2007/12/21		Chrysene		102	%	30 - 130	
2007/12/21		Dibenz(a,h)anthracene		85	%	30 - 130	
2007/12/21		Fluoranthene		113	%	30 - 130	
2007/12/21		Fluorene		89	%	30 - 130	
2007/12/21		Indeno(1,2,3-cd)pyrene		81	%	30 - 130	
2007/12/21		1-Methylnaphthalene		96	%	30 - 130	
2007/12/21		2-Methylnaphthalene		94	%	30 - 130	
2007/12/21		Naphthalene		92	%	30 - 130	
2007/12/21		Phenanthrene		108	%	30 - 130	
2007/12/21		Pyrene		107	%	30 - 130	
Method Blank		2007/12/21	D10-Anthracene		98	%	30 - 130
		2007/12/21	D14-Terphenyl (FS)		96	%	30 - 130
		2007/12/21	D7-Quinoline		76	%	30 - 130
		2007/12/21	D8-Acenaphthylene		81	%	30 - 130
		2007/12/21	Acenaphthene	ND, RDL=0.01		ug/g	
		2007/12/21	Acenaphthylene	ND, RDL=0.005		ug/g	
		2007/12/21	Anthracene	ND, RDL=0.005		ug/g	
		2007/12/21	Benzo(a)anthracene	ND, RDL=0.01		ug/g	
	2007/12/21	Benzo(a)pyrene	ND, RDL=0.005		ug/g		
	2007/12/21	Benzo(b/f)fluoranthene	ND, RDL=0.005		ug/g		
	2007/12/21	Benzo(g,h,i)perylene	ND, RDL=0.02		ug/g		

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Attention: Jeff Muir/Rene De Vries  
Client Project #: 3875  
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Quality Assurance Report (Continued)

Maxxam Job Number: MA7E0814

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
1431665 PMO	Method Blank	Benzo(k)fluoranthene	2007/12/21	ND, RDL=0.01		ug/g			
		Chrysene	2007/12/21	ND, RDL=0.01		ug/g			
		Dibenz(a,h)anthracene	2007/12/21	ND, RDL=0.02		ug/g			
		Fluoranthene	2007/12/21	ND, RDL=0.005		ug/g			
		Fluorene	2007/12/21	ND, RDL=0.005		ug/g			
		Indeno(1,2,3-cd)pyrene	2007/12/21	ND, RDL=0.02		ug/g			
		1-Methylnaphthalene	2007/12/21	ND, RDL=0.005		ug/g			
		2-Methylnaphthalene	2007/12/21	ND, RDL=0.005		ug/g			
		Naphthalene	2007/12/21	ND, RDL=0.005		ug/g			
		Phenanthrene	2007/12/21	ND, RDL=0.005		ug/g			
		Pyrene	2007/12/21	ND, RDL=0.005		ug/g			
		RPD	D14-Terphenyl (FS)	2007/12/21	5.3		%	N/A	
			Acenaphthene	2007/12/21	NC		%	50	
			Acenaphthylene	2007/12/21	NC		%	50	
			Anthracene	2007/12/21	NC		%	50	
			Benzo(a)anthracene	2007/12/21	NC		%	50	
			Benzo(a)pyrene	2007/12/21	NC		%	50	
			Benzo(b/j)fluoranthene	2007/12/21	NC		%	50	
			Benzo(g,h,i)perylene	2007/12/21	NC		%	50	
			Benzo(k)fluoranthene	2007/12/21	NC		%	50	
			Chrysene	2007/12/21	NC		%	50	
			Dibenz(a,h)anthracene	2007/12/21	NC		%	50	
			Fluoranthene	2007/12/21	NC		%	50	
			Fluorene	2007/12/21	NC		%	50	
			Indeno(1,2,3-cd)pyrene	2007/12/21	NC		%	50	
			1-Methylnaphthalene	2007/12/21	NC		%	50	
			2-Methylnaphthalene	2007/12/21	NC		%	50	
			Naphthalene	2007/12/21	NC		%	50	
		Phenanthrene	2007/12/21	NC		%	50		
		Pyrene	2007/12/21	NC		%	50		
		1432255 KCO	MATRIX SPIKE	Acid Extractable Lead (Pb)	2007/12/24		107	%	75 - 125
				Acid Extractable Lead (Pb)	2007/12/24		98	%	75 - 125
			QC STANDARD	Method Blank	2007/12/24	ND, RDL=5		ug/g	
RPD	2007/12/24			NC		%	35		
1432481 SPV	MATRIX SPIKE	1,4-Difluorobenzene	2007/12/28		103	%	60 - 140		
		4-Bromofluorobenzene	2007/12/28		96	%	60 - 140		
		D10-Ethylbenzene	2007/12/28		115	%	30 - 130		
		D4-1,2-Dichloroethane	2007/12/28		94	%	60 - 140		
		Benzene	2007/12/28		103	%	60 - 140		
		Toluene	2007/12/28		102	%	60 - 140		
		Ethylbenzene	2007/12/28		103	%	60 - 140		
		o-Xylene	2007/12/28		105	%	60 - 140		
		p+m-Xylene	2007/12/28		106	%	60 - 140		
		F1 (C6-C10)	2007/12/28		90	%	60 - 140		
	Spiked Blank	1,4-Difluorobenzene	2007/12/28		107	%	60 - 140		
		4-Bromofluorobenzene	2007/12/28		102	%	60 - 140		
		D10-Ethylbenzene	2007/12/28		98	%	30 - 130		
		D4-1,2-Dichloroethane	2007/12/28		116	%	60 - 140		
		Benzene	2007/12/28		110	%	60 - 140		
		Toluene	2007/12/28		96	%	60 - 140		
		Ethylbenzene	2007/12/28		85	%	60 - 140		
		o-Xylene	2007/12/28		96	%	60 - 140		
		p+m-Xylene	2007/12/28		91	%	60 - 140		
		F1 (C6-C10)	2007/12/28		71	%	60 - 140		
Method Blank	1,4-Difluorobenzene	2007/12/28		108	%	60 - 140			

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Quality Assurance Report (Continued)

Maxxam Job Number: MA7E0814

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1432481 SPV	Method Blank	4-Bromofluorobenzene	2007/12/28		95	%	60 - 140
		D10-Ethylbenzene	2007/12/28		114	%	30 - 130
		D4-1,2-Dichloroethane	2007/12/28		91	%	60 - 140
		Benzene	2007/12/28	ND, RDL=0.02		ug/g	
		Toluene	2007/12/28	ND, RDL=0.02		ug/g	
		Ethylbenzene	2007/12/28	ND, RDL=0.02		ug/g	
		o-Xylene	2007/12/28	ND, RDL=0.02		ug/g	
		p+m-Xylene	2007/12/28	ND, RDL=0.04		ug/g	
		Total Xylenes	2007/12/28	ND, RDL=0.04		ug/g	
		F1 (C6-C10)	2007/12/28	ND, RDL=10		ug/g	
		F1 (C6-C10) - BTEX	2007/12/28	ND, RDL=10		ug/g	
	RPD	Benzene	2007/12/28	NC		%	50
		Toluene	2007/12/28	NC		%	50
		Ethylbenzene	2007/12/28	NC		%	50
		o-Xylene	2007/12/28	NC		%	50
		p+m-Xylene	2007/12/28	NC		%	50
		Total Xylenes	2007/12/28	NC		%	50
		F1 (C6-C10)	2007/12/28	NC		%	50
		F1 (C6-C10) - BTEX	2007/12/28	NC		%	50
1432487 HVP	RPD [W50364-01]	Moisture	2007/12/24	2.2		%	50
1433232 AH	MATRIX SPIKE	4-Bromofluorobenzene	2007/12/28		106	%	60 - 140
		D4-1,2-Dichloroethane	2007/12/28		86	%	60 - 140
		D8-Toluene	2007/12/28		103	%	60 - 140
		Acetone (2-Propanone)	2007/12/28		67	%	24 - 171
		Benzene	2007/12/28		85	%	39 - 137
		Bromodichloromethane	2007/12/28		88	%	45 - 131
		Bromoform	2007/12/28		82	%	44 - 131
		Bromomethane	2007/12/28		80	%	20 - 146
		Carbon Tetrachloride	2007/12/28		90	%	40 - 139
		Chlorobenzene	2007/12/28		95	%	45 - 140
		Chloroform	2007/12/28		86	%	48 - 128
		Dibromochloromethane	2007/12/28		91	%	52 - 135
		1,2-Dichlorobenzene	2007/12/28		91	%	39 - 145
		1,3-Dichlorobenzene	2007/12/28		97	%	38 - 158
		1,4-Dichlorobenzene	2007/12/28		97	%	35 - 159
		1,1-Dichloroethane	2007/12/28		86	%	48 - 131
		1,2-Dichloroethane	2007/12/28		76	%	43 - 123
		1,1-Dichloroethylene	2007/12/28		84	%	50 - 134
		cis-1,2-Dichloroethylene	2007/12/28		88	%	45 - 136
		trans-1,2-Dichloroethylene	2007/12/28		89	%	45 - 138
		1,2-Dichloropropane	2007/12/28		81	%	51 - 130
		cis-1,3-Dichloropropene	2007/12/28		88	%	39 - 143
		trans-1,3-Dichloropropene	2007/12/28		87	%	33 - 135
		Ethylbenzene	2007/12/28		NC (1)	%	46 - 150
		Ethylene Dibromide	2007/12/28		88	%	48 - 136
		Methylene Chloride(Dichloromethane)	2007/12/28		81	%	47 - 124
		Methyl Isobutyl Ketone	2007/12/28		85	%	48 - 133
		Methyl Ethyl Ketone (2-Butanone)	2007/12/28		81	%	39 - 160
		Methyl t-butyl ether (MTBE)	2007/12/28		82	%	37 - 150
		Styrene	2007/12/28		90	%	27 - 148
		1,1,1,2-Tetrachloroethane	2007/12/28		91	%	51 - 140
		1,1,2,2-Tetrachloroethane	2007/12/28		76	%	46 - 128
		Tetrachloroethylene	2007/12/28		92	%	45 - 154
		Toluene	2007/12/28		98	%	30 - 158
		1,1,1-Trichloroethane	2007/12/28		90	%	44 - 136

CPG-Franz Inc  
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Quality Assurance Report (Continued)

Maxxam Job Number: MATE0814

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1433232 AH	MATRIX SPIKE	1,1,2-Trichloroethane	2007/12/28		85	%	56 - 135
		Trichloroethylene	2007/12/28		96	%	39 - 146
		Vinyl Chloride	2007/12/28		69	%	34 - 136
		p+m-Xylene	2007/12/28		123	%	29 - 161
		o-Xylene	2007/12/28		106	%	45 - 150
	Spiked Blank	4-Bromofluorobenzene	2007/12/28		96	%	60 - 140
		D4-1,2-Dichloroethane	2007/12/28		102	%	60 - 140
		D8-Toluene	2007/12/28		95	%	60 - 140
		Acetone (2-Propanone)	2007/12/28		115	%	60 - 140
		Benzene	2007/12/28		102	%	60 - 140
		Bromodichloromethane	2007/12/28		101	%	60 - 140
		Bromoform	2007/12/28		114	%	60 - 140
		Bromomethane	2007/12/28		95	%	60 - 140
		Carbon Tetrachloride	2007/12/28		99	%	60 - 140
		Chlorobenzene	2007/12/28		100	%	60 - 140
		Chloroform	2007/12/28		99	%	60 - 140
		Dibromochloromethane	2007/12/28		98	%	60 - 140
		1,2-Dichlorobenzene	2007/12/28		108	%	60 - 140
		1,3-Dichlorobenzene	2007/12/28		116	%	60 - 140
		1,4-Dichlorobenzene	2007/12/28		116	%	60 - 140
		1,1-Dichloroethane	2007/12/28		101	%	60 - 140
		1,2-Dichloroethane	2007/12/28		97	%	60 - 140
		1,1-Dichloroethylene	2007/12/28		103	%	60 - 140
		cis-1,2-Dichloroethylene	2007/12/28		99	%	60 - 140
		trans-1,2-Dichloroethylene	2007/12/28		102	%	60 - 140
		1,2-Dichloropropane	2007/12/28		96	%	60 - 140
		cis-1,3-Dichloropropene	2007/12/28		105	%	60 - 140
		trans-1,3-Dichloropropene	2007/12/28		106	%	60 - 140
		Ethylbenzene	2007/12/28		103	%	60 - 140
		Ethylene Dibromide	2007/12/28		97	%	60 - 140
		Methylene Chloride(Dichloromethane)	2007/12/28		97	%	60 - 140
		Methyl Isobutyl Ketone	2007/12/28		113	%	60 - 140
		Methyl Ethyl Ketone (2-Butanone)	2007/12/28		112	%	60 - 140
		Methyl t-butyl ether (MTBE)	2007/12/28		107	%	60 - 140
		Styrene	2007/12/28		97	%	60 - 140
		1,1,1,2-Tetrachloroethane	2007/12/28		91	%	60 - 140
		1,1,2,2-Tetrachloroethane	2007/12/28		97	%	60 - 140
		Tetrachloroethylene	2007/12/28		99	%	60 - 140
		Toluene	2007/12/28		97	%	60 - 140
		1,1,1-Trichloroethane	2007/12/28		100	%	60 - 140
		1,1,2-Trichloroethane	2007/12/28		95	%	60 - 140
		Trichloroethylene	2007/12/28		103	%	60 - 140
		Vinyl Chloride	2007/12/28		76	%	60 - 140
		p+m-Xylene	2007/12/28		109	%	60 - 140
		o-Xylene	2007/12/28		101	%	60 - 140
	Method Blank	4-Bromofluorobenzene	2007/12/28		102	%	60 - 140
		D4-1,2-Dichloroethane	2007/12/28		105	%	60 - 140
		D8-Toluene	2007/12/28		103	%	60 - 140
		Acetone (2-Propanone)	2007/12/28	ND, RDL=0.1		ug/g	
		Benzene	2007/12/28	ND, RDL=0.002		ug/g	
		Bromodichloromethane	2007/12/28	ND, RDL=0.002		ug/g	
		Bromoform	2007/12/28	ND, RDL=0.002		ug/g	
		Bromomethane	2007/12/28	ND, RDL=0.003		ug/g	
		Carbon Tetrachloride	2007/12/28	ND, RDL=0.002		ug/g	
		Chlorobenzene	2007/12/28	ND, RDL=0.002		ug/g	

CPG-Franz Inc  
Attention: Jeff Muir/Rene De Vries  
Client Project #: 3875  
P.O. #:  
Project name: 3005 DUNDAS ST.W,OAKVILLE

Quality Assurance Report (Continued)

Maxxam Job Number: MA7E0814

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1433232 AH	Method Blank	Chloroform	2007/12/28	ND, RDL=0.002		ug/g	
		Dibromochloromethane	2007/12/28	ND, RDL=0.002		ug/g	
		1,2-Dichlorobenzene	2007/12/28	ND, RDL=0.002		ug/g	
		1,3-Dichlorobenzene	2007/12/28	ND, RDL=0.002		ug/g	
		1,4-Dichlorobenzene	2007/12/28	ND, RDL=0.002		ug/g	
		1,1-Dichloroethane	2007/12/28	ND, RDL=0.002		ug/g	
		1,2-Dichloroethane	2007/12/28	ND, RDL=0.002		ug/g	
		1,1-Dichloroethylene	2007/12/28	ND, RDL=0.002		ug/g	
		cis-1,2-Dichloroethylene	2007/12/28	ND, RDL=0.002		ug/g	
		trans-1,2-Dichloroethylene	2007/12/28	ND, RDL=0.002		ug/g	
		1,2-Dichloropropane	2007/12/28	ND, RDL=0.002		ug/g	
		cis-1,3-Dichloropropene	2007/12/28	ND, RDL=0.002		ug/g	
		trans-1,3-Dichloropropene	2007/12/28	ND, RDL=0.002		ug/g	
		Ethylbenzene	2007/12/28	ND, RDL=0.002		ug/g	
		Ethylene Dibromide	2007/12/28	ND, RDL=0.002		ug/g	
		Methylene Chloride(Dichloromethane)	2007/12/28	ND, RDL=0.003		ug/g	
		Methyl Isobutyl Ketone	2007/12/28	ND, RDL=0.025		ug/g	
		Methyl Ethyl Ketone (2-Butanone)	2007/12/28	ND, RDL=0.025		ug/g	
		Methyl t-butyl ether (MTBE)	2007/12/28	ND, RDL=0.002		ug/g	
		Styrene	2007/12/28	ND, RDL=0.002		ug/g	
		1,1,1,2-Tetrachloroethane	2007/12/28	ND, RDL=0.002		ug/g	
		1,1,2,2-Tetrachloroethane	2007/12/28	ND, RDL=0.002		ug/g	
		Tetrachloroethylene	2007/12/28	ND, RDL=0.002		ug/g	
		Toluene	2007/12/28	ND, RDL=0.002		ug/g	
		1,1,1-Trichloroethane	2007/12/28	ND, RDL=0.002		ug/g	
		1,1,2-Trichloroethane	2007/12/28	ND, RDL=0.002		ug/g	
		Trichloroethylene	2007/12/28	ND, RDL=0.002		ug/g	
		Vinyl Chloride	2007/12/28	ND, RDL=0.002		ug/g	
		p+m-Xylene	2007/12/28	ND, RDL=0.002		ug/g	
		o-Xylene	2007/12/28	ND, RDL=0.002		ug/g	
		Xylene (Total)	2007/12/28	ND, RDL=0.002		ug/g	
	RPD	Acetone (2-Propanone)	2007/12/28	NC		%	50
		Benzene	2007/12/28	NC		%	50
		Bromodichloromethane	2007/12/28	NC		%	50
		Bromoform	2007/12/28	NC		%	50
		Bromomethane	2007/12/28	NC		%	50
		Carbon Tetrachloride	2007/12/28	NC		%	50
		Chlorobenzene	2007/12/28	NC		%	50
		Chloroform	2007/12/28	NC		%	50
		Dibromochloromethane	2007/12/28	NC		%	50
		1,2-Dichlorobenzene	2007/12/28	NC		%	50
		1,3-Dichlorobenzene	2007/12/28	NC		%	50
		1,4-Dichlorobenzene	2007/12/28	NC		%	50
		1,1-Dichloroethane	2007/12/28	NC		%	50
		1,2-Dichloroethane	2007/12/28	NC		%	50
		1,1-Dichloroethylene	2007/12/28	NC		%	50
		cis-1,2-Dichloroethylene	2007/12/28	NC		%	50
		trans-1,2-Dichloroethylene	2007/12/28	NC		%	50
		1,2-Dichloropropane	2007/12/28	NC		%	50
		cis-1,3-Dichloropropene	2007/12/28	NC		%	50
		trans-1,3-Dichloropropene	2007/12/28	NC		%	50
		Ethylbenzene	2007/12/28	0.6		%	50
		Ethylene Dibromide	2007/12/28	NC		%	50
		Methylene Chloride(Dichloromethane)	2007/12/28	NC		%	50
		Methyl Isobutyl Ketone	2007/12/28	NC		%	50

CPG-Franz Inc  
Attention: Jeff Muir/Rene De Vries  
Client Project #: 3875  
P.O. #:  
Project name: 3005 DUNDAS ST.W,OAKVILLE

Quality Assurance Report (Continued)

Maxxam Job Number: MA7E0814

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
1433232 AH	RPD	Methyl Ethyl Ketone (2-Butanone)	2007/12/28	NC		%	50		
		Methyl t-butyl ether (MTBE)	2007/12/28	NC		%	50		
		Styrene	2007/12/28	NC		%	50		
		1,1,1,2-Tetrachloroethane	2007/12/28	NC		%	50		
		1,1,2,2-Tetrachloroethane	2007/12/28	NC		%	50		
		Tetrachloroethylene	2007/12/28	NC		%	50		
		Toluene	2007/12/28	NC		%	50		
		1,1,1-Trichloroethane	2007/12/28	NC		%	50		
		1,1,2-Trichloroethane	2007/12/28	NC		%	50		
		Trichloroethylene	2007/12/28	NC		%	50		
		Vinyl Chloride	2007/12/28	NC		%	50		
		p+m-Xylene	2007/12/28	3.3		%	50		
		o-Xylene	2007/12/28	2.9		%	50		
		Xylene (Total)	2007/12/28	3.1		%	50		
		1433568 JXI	MATRIX SPIKE	o-Terphenyl	2007/12/30		101	%	30 - 130
				F2 (C10-C16 Hydrocarbons)	2007/12/30		72	%	60 - 130
F3 (C16-C34 Hydrocarbons)	2007/12/30				72	%	60 - 130		
F4 (C34-C50 Hydrocarbons)	2007/12/30				72	%	60 - 130		
Spiked Blank	o-Terphenyl		2007/12/30		97	%	30 - 130		
	F2 (C10-C16 Hydrocarbons)		2007/12/30		63	%	60 - 130		
	F3 (C16-C34 Hydrocarbons)		2007/12/30		63	%	60 - 130		
	F4 (C34-C50 Hydrocarbons)		2007/12/30		63	%	60 - 130		
Method Blank	o-Terphenyl		2007/12/30		93	%	30 - 130		
	F2 (C10-C16 Hydrocarbons)		2007/12/30	ND, RDL=10		ug/g			
	F3 (C16-C34 Hydrocarbons)		2007/12/30	ND, RDL=10		ug/g			
	F4 (C34-C50 Hydrocarbons)		2007/12/30	ND, RDL=10		ug/g			
RPD	F2 (C10-C16 Hydrocarbons)		2007/12/30	NC		%	50		
	F3 (C16-C34 Hydrocarbons)		2007/12/30	NC		%	50		
	F4 (C34-C50 Hydrocarbons)		2007/12/30	NC		%	50		
	Grain Size		2008/01/02	NC		%	20		
1434287 MYG	RPD	Sieve - #200 (<0.075mm)	2008/01/02	6.4		%	20		
		Sieve - #200 (>0.075mm)	2008/01/02	4.6		%	20		

ND = Not detected  
N/A = Not Applicable  
NC = Non-calculable  
RPD = Relative Percent Difference  
QC Standard = Quality Control Standard  
SPIKE = Fortified sample  
( 1 ) The recovery in the matrix spike was not calculated (NC). Spiked concentration was less than 2x that native to the sample.

Validation Signature Page

Maxxam Job #: A7E0814

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

*Christina Nervo*

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CHRISTINA NERVO, Scientific Services

*M. Riskallah*

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MEDHAT RISKALLAH, Manager, Hydrocarbon Department

*Michael Wang*

---

MICHAEL WANG,

*Suzana Popovic*

---

SUZANA POPOVIC, Supervisor, Hydrocarbons

---

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.





IMMEDIATE TEST  
 6740 Campopolo Road, Mississauga, ON L5N 2L8  
 Phone: 905-817-5770 Fax: 905-817-5778 Toll Free: 800-963-8266

CHAIN OF CUSTODY RECORD

Page 1 of 1

**INVOICE INFORMATION**  
 Company Name: Wardrop  
 Contact Name: Kashif Khan  
 Address: 6725 Airport Rd. 6th Floor  
Mississauga, Ont. L4V 1V2  
 Phone: 673-3788 Fax: 673-8007  
 Email: Kashif.Khan@Wardrop.com

**REPORT INFORMATION (if differs from invoice)**  
 Company Name: CPG-Franz  
 Contact Name: René Veljovic  
 Address: 250 Shields Ct. #115  
Markham, Ont.  
 Phone: 905-470-6570 Fax: 905-470-0958  
 Email: RVeljovic@Franz.ca

**PROJECT INFORMATION**  
 Qualification #: As per Wardrop - Shell Contract  
 P.O. #: NA  
 Project #: 3875  
 Project Name: Shell  
 Location: 3005 Dundas St. W. Oakville  
 Sampled By: C. Franzi-Krieger

**MAXXAM JOB NUMBER**  
 CHAIN OF CUSTODY #  
DO 507450

**REGULATORY CRITERIA**  
 Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form.  
 MISA  Reg. 153  Sewer Use  Other  
 PW00  Table 1  Sundry  Storm  Spill  
 Reg. 558  Table 2  Region:  
 Reg. 558  Table 3

**ANALYSIS REQUESTED (Please be specific)**  
 Metals Field Filtered? (Y/N)   
 Regulated Drinking Water? (Y/N)   
 BTEX   
 FI-FH   
 PH   
 PAH's   
 VOC's   
 X Lead   
 Grain size analysis

**TURNAROUND TIME (TAT) REQUIRED**  
 PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS.  
 Regular (Standard) TAT:  15 to 7 Working Days  
 Rush TAT: Rush Confirmation #:  
 1 day  
 DATE Re: 19-Dec-07 14:09  
 TIME Re: TIM DAS  
 Please note that 15 contact your Project #:  
A7ED814  
S.A ENV-657

**SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM.**

Sample Identification	Date Sampled	Time Sampled	Matrix
1 BH1-554	Dec 18/07	11:00	Soil
2 BH2-552	↓	10:00	↓
3 BH2-553	↓	10:15	↓
4 BH3-552	Dec 17/07	12:00	↓
5 BH3-554	↓	12:15	↓
6 BH4-553	↓	2:00	↓
7 BH5-552	Dec 18/07	8:00	↓
8 BH5-554	↓	8:10	↓
9 BH6-551	↓	9:00	↓
10 BH6-553	↓	9:10	↓
11 BH6-554	↓	9:15	↓
12 Dup	↓	NA	↓

**COMMENTS / TAT COMMENTS**  
 Insufficient Sample Volume  
 Insufficient Sample Volume  
 Insufficient Sample Volume  
 19 DEC 19 14:09

**RECEIVED BY (Signature/Print)**  
Carl Freckley  
 RECEIVED BY (Signature/Print)  OK  SIF

**MANDATORY SECTIONS IN GREY MUST BE FILLED OUT. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.**

Temperature (°C) on Receipt: 24.7°C  
 Laboratory Use Only:  OK  SIF

REG-001-01-0506

DATA QUALITY REVIEW CHECKLIST

Consultant: <u>Wardrop Engineering Inc.</u>	Sampling Date: <u>December 17 &amp; 18, 2007</u>
Location: <u>3005 Dundas Street, Oakville, Ontario</u>	Laboratory: <u>Maxxam Analytics Inc.</u>
Consultant Project Number: <u>08134801-01</u>	Maxxam Job Number: <u>A7E0814</u>

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery	X			- The extraction surrogate recovery is outside the acceptance limits due to matrix interference affecting BH3-SS2 and BH5-SS2.
Extraction Surrogate Recovery		X		
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery	X			

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration	X			- RPD alert limit exceeded for BH5-SS2 and its associated field duplicates sample (DUP) for xylenes.
Trip Blank Concentration	X			
Field Duplicate RPD		X		

Has CoA been signed off (Yes/No)?:	<u>Yes</u>
Has lab warranted all tests were in statistical control in CoA (Yes/No)?:	<u>Yes</u>
Has lab warranted all tests were analyzed following SOP's in CoA (Yes/No)?:	<u>Yes</u>
Were all samples analyzed within hold times (Yes/No)?:	<u>Yes</u>
All volatiles samples methanol extracted (if required) within 48 hours (Yes/No)?:	<u>No</u>
Is Chain of Custody completed and signed (Yes/No)?:	<u>Yes</u>
Were sample temperatures acceptable when they reached lab (Yes/No)?:	<u>Yes</u>

Was a Data Quality Waiver (DQW) issued (Yes/No)?: No

Date Issued: NA                      Date of Response: NA

Is data considered to be reliable (Yes/No)?: Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Fatema Tawawala                      Data Reviewed by (Signature): [Signature]

Date: January 15, 2008

Your Project #: 3875  
Site: 3005 DUNDAS ST.W., OAKVILLE  
Your C.O.C. #: 00507452

**Attention: Jeff Muir/Rene De Vries**  
CPG-Franz Inc  
15-250 Shields Crt  
Markham, ON  
L3R 9W7

Report Date: 2007/12/31

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: A7E0824**  
Received: 2007/12/19, 14:09

Sample Matrix: Soil  
# Samples Received: 1

Analyses	Quantity	Date		Laboratory Method	Method Reference
		Extracted	Analyzed		
Semivolatile Organic Compounds (TCLP)	1	2007/12/21	2007/12/21	Ont SOP-0117	EPA 8270 modified
Cyanide (WAD) in Leachates	1	N/A	2007/12/27	CAM SOP-00457	SM 4500 CN-I
Fluoride by ISE in Leachates	1	2007/12/27	2007/12/27	Ont SOP-0621	SM 4500FC
Mercury (TCLP Leachable) (mg/L)	1	N/A	2007/12/24	CAM SOP-00453	EPA 7470
Total Metals in TCLP Leachate by ICPMS	1	2007/12/21	2007/12/21	CAM SOP-00447	EPA 6020
Ignitability of a Sample Ø	1	2007/12/31	2007/12/31	Ont SOP-0932	EPA 1030
Nitrate(NO3) + Nitrite(NO2) in Leachate	1	N/A	2007/12/24	CAM SOP-00440	SM 4500 NO3 I
Polychlorinated Biphenyl in Leachate	1	2007/12/22	2007/12/24	CAM SOP-00307	EPA 8082
TCLP - % Solids	1	2007/12/21	2007/12/21	CAM SOP-00401	EPA 1311 (TCLP)
TCLP - EXTRACTION FLUID	1	N/A	2007/12/21	CAM SOP-00401	EPA 1311
TCLP-INITIAL AND FINAL PH	1	N/A	2007/12/21	CAM SOP-00401	EPA 1311
TCLP Zero Headspace Extraction	1	2007/12/21	2007/12/21	Ont SOP-0762	EPA 1311
VOCs in ZHE Leachates	1	2007/12/20	2007/12/24	CAM SOP 0226	EPA 8260 modified

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Ignitability is not an SCC accredited test.

  
Kristen Burmeister  
31 Dec 2007 10:50:04 -05:00

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

KRISTEN BURMEISTER, Project Manager  
Email: Kristen.Burmeister@maxxamanalytics.com  
Phone# (905) 817-5700 Ext:5816

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section

Your Project #: 3875  
Site: 3005 DUNDAS ST.W., OAKVILLE  
Your C.O.C. #: 00507452

**Attention: Jeff Muir/Rene De Vries**  
CPG-Franz Inc  
15-250 Shields Crt  
Markham, ON  
L3R 9W7

**Report Date: 2007/12/31**

**CERTIFICATE OF ANALYSIS**

-2-

5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 2

Page 2 of 12

Maxxam Job #: A7E0824  
Report Date: 2007/12/31

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W., OAKVILLE  
Sampler Initials:

**O'REG 558 TCLP BENZO(A)PYRENE**

Maxxam ID		W50404		
Sampling Date		2007/12/17 12:10		
COC Number		00507452		
	<b>Units</b>	<b>REG</b>	<b>RDL</b>	<b>QC Batch</b>

<b>SEMIVOLATILES</b>				
Leachable Benzo(a)pyrene	ug/L	ND	0.1	1431278
<b>Surrogate Recovery (%)</b>				
Leachable 2-Fluorobiphenyl	%	73		1431278
Leachable D14-Terphenyl (FS)	%	100		1431278
Leachable D5-Nitrobenzene	%	80		1431278
Leachable D5-Phenol	%	34		1431278
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: A7E0824  
Report Date: 2007/12/31

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W., OAKVILLE  
Sampler Initials:

**O'REG 558 TCLP BENZENE (SOIL)**

Maxxam ID		W50404		
Sampling Date		2007/12/17 12:10		
COC Number		00507452		
	<b>Units</b>	<b>REG</b>	<b>RDL</b>	<b>QC Batch</b>

<b>VOLATILES</b>				
Amount Extracted (Wet Weight) (g)	N/A	25	N/A	1431576
Benzene	mg/L	0.06	0.01	1431261
<b>Surrogate Recovery (%)</b>				
4-Bromofluorobenzene	%	102		1431261
D4-1,2-Dichloroethane	%	79		1431261
D8-Toluene	%	103		1431261
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: A7E0824  
Report Date: 2007/12/31

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W., OAKVILLE  
Sampler Initials:

**O'REG 558 TCLP INORGANICS PACKAGE (SOIL)**

Maxxam ID		W50404		
Sampling Date		2007/12/17 12:10		
COC Number		00507452		
	<b>Units</b>	<b>REG</b>	<b>RDL</b>	<b>QC Batch</b>

<b>INORGANICS</b>				
Leachable Fluoride (F-)	mg/L	1.7	0.1	1432796
Leachable Free Cyanide	mg/L	ND	0.002	1432767
Leachable Nitrite (N)	mg/L	ND	0.1	1432347
Leachable Nitrate (N)	mg/L	43	1	1432347
Leachable Nitrate + Nitrite	mg/L	43	1	1432347
<b>METALS</b>				
Leachable Mercury (Hg)	mg/L	ND	0.001	1432464
Leachable Arsenic (As)	mg/L	ND	0.2	1431328
Leachable Barium (Ba)	mg/L	0.6	0.2	1431328
Leachable Boron (B)	mg/L	4.3	0.1	1431328
Leachable Cadmium (Cd)	mg/L	ND	0.05	1431328
Leachable Chromium (Cr)	mg/L	ND	0.1	1431328
Leachable Lead (Pb)	mg/L	ND	0.1	1431328
Leachable Selenium (Se)	mg/L	ND	0.2	1431328
Leachable Silver (Ag)	mg/L	ND	0.01	1431328
Leachable Uranium (U)	mg/L	ND	0.01	1431328

ND = Not detected  
RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A7E0824  
Report Date: 2007/12/31

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W., OAKVILLE  
Sampler Initials:

**O'REG 558 TCLP LEACHATE PREPARATION (SOIL)**

Maxxam ID		W50404		
Sampling Date		2007/12/17 12:10		
COC Number		00507452		
	<b>Units</b>	<b>REG</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Charge/Prep Analysis</b>				
Final pH	pH	4.80		1431365
Initial pH	pH	7.38		1431365
TCLP - % Solids	%	100	0.2	1431363
TCLP Extraction Fluid	ml	FLUID1	N/A	1431364

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch



Maxxam Job #: A7E0824  
Report Date: 2007/12/31

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W., OAKVILLE  
Sampler Initials:

**POLYCHLORINATED BIPHENYLS BY GC-ECD (SOIL)**

Maxxam ID		W50404		
Sampling Date		2007/12/17 12:10		
COC Number		00507452		
	<b>Units</b>	<b>REG</b>	<b>RDL</b>	<b>QC Batch</b>

<b>PCBs</b>				
Leachable Total PCB	ug/L	ND	3	1432115
<b>Surrogate Recovery (%)</b>				
Leachable 2,4,5,6-Tetrachloro-m-xylene	%	81		1432115
Leachable Decachlorobiphenyl	%	99		1432115

ND = Not detected  
RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A7E0824  
Report Date: 2007/12/31

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W.,OAKVILLE  
Sampler Initials:

**MISCELLANEOUS (SOIL)**

Maxxam ID		W50404		
Sampling Date		2007/12/17 12:10		
COC Number		00507452		
	<b>Units</b>	<b>REG</b>	<b>RDL</b>	<b>QC Batch</b>

<b>INORGANICS</b>				
Ignitability	mm/min.	NI		1434051
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: A7E0824  
Report Date: 2007/12/31

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W.,OAKVILLE  
Sampler Initials:

**GENERAL COMMENTS**

Sample W50404-01: NI = Not ignitable

**Results relate only to the items tested.**

CPG-Franz Inc  
Attention: Jeff Muir/Rene De Vries  
Client Project #: 3875  
P.O. #:  
Project name: 3005 DUNDAS ST.W.,OAKVILLE

Quality Assurance Report  
Maxxam Job Number: MA7E0824

QA/QC Batch	Date Analyzed	Parameter	Value	Recovery	Units	QC Limits	
1431261 TMI	2007/12/24	Spiked Blank	4-Bromofluorobenzene	108	%	70 - 130	
		D4-1,2-Dichloroethane	106	%	70 - 130		
		D8-Toluene	101	%	70 - 130		
	2007/12/24	Method Blank	Benzene	104	%	70 - 130	
		4-Bromofluorobenzene	102	%	70 - 130		
		D4-1,2-Dichloroethane	79	%	70 - 130		
	1431278 YZ	2007/12/24	MATRIX SPIKE	D8-Toluene	102	%	70 - 130
				Benzene	ND, RDL=0.01	mg/L	
				Leachable 2-Fluorobiphenyl	73	%	30 - 130
		2007/12/21	Spiked Blank	Leachable D14-Terphenyl (FS)	99	%	30 - 130
Leachable D5-Nitrobenzene				82	%	30 - 130	
Leachable D5-Phenol				26	%	10 - 130	
1431328 JBW		2007/12/21	Method Blank	Leachable Benzo(a)pyrene	102	%	30 - 130
				Leachable 2-Fluorobiphenyl	74	%	30 - 130
				Leachable D14-Terphenyl (FS)	98	%	30 - 130
		2007/12/21	RPD	Leachable D5-Nitrobenzene	76	%	30 - 130
	Leachable D5-Phenol			22	%	10 - 130	
	Leachable Benzo(a)pyrene			100	%	30 - 130	
	2007/12/21		LEACH. BLANK	Leachable 2-Fluorobiphenyl	70	%	30 - 130
				Leachable D14-Terphenyl (FS)	98	%	30 - 130
				Leachable D5-Nitrobenzene	77	%	30 - 130
			2007/12/21	Spiked Blank	Leachable D5-Phenol	21	%
Leachable Benzo(a)pyrene					ND, RDL=0.1	ug/L	
Leachable D14-Terphenyl (FS)					2.6	%	N/A
2007/12/21				RPD	Leachable Benzo(a)pyrene	NC	%
		Leachable Arsenic (As)			101	%	75 - 125
		Leachable Barium (Ba)			101	%	75 - 125
		2007/12/21		LEACH. BLANK	Leachable Boron (B)	105	%
	Leachable Cadmium (Cd)				105	%	75 - 125
	Leachable Chromium (Cr)				104	%	75 - 125
	2007/12/21			Spiked Blank	Leachable Lead (Pb)	101	%
			Leachable Selenium (Se)		104	%	75 - 125
			Leachable Silver (Ag)		94	%	75 - 125
			2007/12/21	RPD	Leachable Uranium (U)	104	%
Leachable Arsenic (As)					ND, RDL=0.2	mg/L	
Leachable Barium (Ba)					ND, RDL=0.2	mg/L	
2007/12/21				Spiked Blank	Leachable Boron (B)	ND, RDL=0.1	mg/L
		Leachable Cadmium (Cd)			ND, RDL=0.05	mg/L	
		Leachable Chromium (Cr)			ND, RDL=0.1	mg/L	
		2007/12/21		Spiked Blank	Leachable Lead (Pb)	ND, RDL=0.1	mg/L
	Leachable Selenium (Se)				ND, RDL=0.2	mg/L	
	Leachable Silver (Ag)				ND, RDL=0.01	mg/L	
	2007/12/21			RPD	Leachable Uranium (U)	ND, RDL=0.01	mg/L
			Leachable Arsenic (As)		98	%	86 - 119
			Leachable Barium (Ba)		98	%	83 - 115
			2007/12/21	Spiked Blank	Leachable Boron (B)	106	%
Leachable Cadmium (Cd)					102	%	85 - 116
Leachable Chromium (Cr)					100	%	76 - 120
2007/12/21				Spiked Blank	Leachable Lead (Pb)	100	%
		Leachable Selenium (Se)			100	%	82 - 118
		Leachable Silver (Ag)			93	%	75 - 125
		2007/12/21		RPD	Leachable Uranium (U)	100	%
	Leachable Arsenic (As)				NC	%	25
	Leachable Barium (Ba)				NC	%	25
	2007/12/21			RPD	Leachable Boron (B)	NC	%

CPG-Franz Inc  
Attention: Jeff Muir/Rene De Vries  
Client Project #: 3875  
P.O. #:  
Project name: 3005 DUNDAS ST.W.,OAKVILLE

Quality Assurance Report (Continued)

Maxxam Job Number: MA7E0824

QA/QC Batch	QC Type	Parameter	Date Analyzed	Value	Recovery	Units	QC Limits
1431328 JBW	RPD	Leachable Cadmium (Cd)	2007/12/21	NC		%	25
		Leachable Chromium (Cr)	2007/12/21	NC		%	25
		Leachable Lead (Pb)	2007/12/21	NC		%	25
		Leachable Selenium (Se)	2007/12/21	NC		%	25
		Leachable Silver (Ag)	2007/12/21	NC		%	25
		Leachable Uranium (U)	2007/12/21	NC		%	25
1431363 TFA	RPD	TCLP - % Solids	2007/12/21	0		%	35
1431364 TFA	RPD	TCLP Extraction Fluid	2007/12/21	NC		%	35
1432115 RBA	MATRIX SPIKE	Leachable 2,4,5,6-Tetrachloro-m-xylene	2007/12/24		85	%	30 - 130
		Leachable Decachlorobiphenyl	2007/12/24		103	%	30 - 130
		Leachable Total PCB	2007/12/24		81	%	40 - 130
	Spiked Blank	Leachable 2,4,5,6-Tetrachloro-m-xylene	2007/12/24		79	%	30 - 130
		Leachable Decachlorobiphenyl	2007/12/24		94	%	30 - 130
		Leachable Total PCB	2007/12/24		79	%	40 - 130
	Method Blank	Leachable 2,4,5,6-Tetrachloro-m-xylene	2007/12/24		75	%	30 - 130
		Leachable Decachlorobiphenyl	2007/12/24		82	%	30 - 130
		Leachable Total PCB	2007/12/24	ND, RDL=3		ug/L	
	RPD	Leachable Decachlorobiphenyl	2007/12/24	2.0		%	N/A
		Leachable Total PCB	2007/12/24	NC		%	40
1432347 CCI	MATRIX SPIKE	Leachable Nitrite (N)	2007/12/24		101	%	75 - 125
		Leachable Nitrate (N)	2007/12/24		88	%	75 - 125
	LEACH. BLANK	Leachable Nitrite (N)	2007/12/24	ND, RDL=0.01		mg/L	
		Leachable Nitrate (N)	2007/12/24	ND, RDL=0.1		mg/L	
		Leachable Nitrate + Nitrite	2007/12/24	ND, RDL=0.1		mg/L	
	Spiked Blank	Leachable Nitrite (N)	2007/12/24		99	%	80 - 120
		Leachable Nitrate (N)	2007/12/24		91	%	80 - 120
	Method Blank	Leachable Nitrite (N)	2007/12/24	ND, RDL=0.01		mg/L	
		Leachable Nitrate (N)	2007/12/24	ND, RDL=0.1		mg/L	
		Leachable Nitrate + Nitrite	2007/12/24	ND, RDL=0.1		mg/L	
	RPD	Leachable Nitrite (N)	2007/12/24	NC		%	25
		Leachable Nitrate (N)	2007/12/24	4.0		%	25
		Leachable Nitrate + Nitrite	2007/12/24	4.0		%	25
1432464 SUK	MATRIX SPIKE	Leachable Mercury (Hg)	2007/12/24		89	%	75 - 125
	LEACH. BLANK	Leachable Mercury (Hg)	2007/12/24	ND, RDL=0.001		mg/L	
	QC STANDARD	Leachable Mercury (Hg)	2007/12/24		97	%	75 - 125
	Spiked Blank	Leachable Mercury (Hg)	2007/12/24		95	%	84 - 113
	Method Blank	Leachable Mercury (Hg)	2007/12/24	ND, RDL=0.001		mg/L	
	RPD	Leachable Mercury (Hg)	2007/12/24	NC		%	25
1432767 LHA	MATRIX SPIKE	Leachable Free Cyanide	2007/12/27		100	%	75 - 125
	LEACH. BLANK	Leachable Free Cyanide	2007/12/27	ND, RDL=0.002		mg/L	
	Spiked Blank	Leachable Free Cyanide	2007/12/27		106	%	75 - 125
	Method Blank	Leachable Free Cyanide	2007/12/27	ND, RDL=0.002		mg/L	
	RPD	Leachable Free Cyanide	2007/12/27	NC		%	20
1432796 SAC	MATRIX SPIKE	Leachable Fluoride (F-)	2007/12/27		97	%	75 - 125
	LEACH. BLANK	Leachable Fluoride (F-)	2007/12/27	ND, RDL=0.1		mg/L	
	Spiked Blank	Leachable Fluoride (F-)	2007/12/27		95	%	75 - 125
	Method Blank	Leachable Fluoride (F-)	2007/12/27	ND, RDL=0.1		mg/L	
	RPD	Leachable Fluoride (F-)	2007/12/27	NC		%	25
1434051 HVP	RPD	Ignitability	2007/12/31	NC		%	10

ND = Not detected  
N/A = Not Applicable  
NC = Non-calculable  
RPD = Relative Percent Difference  
QC Standard = Quality Control Standard  
SPIKE = Fortified sample

**Validation Signature Page**

**Maxxam Job #: A7E0824**

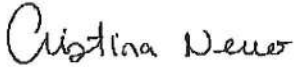
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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



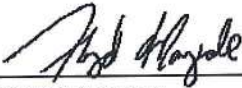
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CHARLES ANCKER, B.Sc., M.Sc., C.Chem, Senior Analyst



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CHRISTINA NERVO, Scientific Services



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FLOYD MAYEDE,

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

**CHAIN OF CUSTODY RECORD**

Page 1 of 1

**Maxxam**  
ANALYTICAL LAB  
 6740 Campobello Road, Mississauga, ON L5N 2L8  
 Phone: 905-817-5700 Fax: 905-817-5778 Toll Free: (800) 563-6266

<b>INVOICE INFORMATION</b> Company Name: <u>Wardrop</u> Contact Name: <u>Kashif Khan</u> Address: <u>6725 Airport Rd. 6th Floor</u> <u>Mississauga, Ont L4V 1V2</u> Phone: <u>673-3788</u> Fax: <u>673-8007</u> Email: <u>Kashif.Khan@Wardrop.com</u>		<b>REPORT INFORMATION (if differs from invoice)</b> Company Name: <u>CPG-Franz</u> Contact Name: <u>Reve DeVries</u> Address: <u>250 Shields St. #15</u> <u>Markham, Ont.</u> Phone: <u>470-6570</u> Fax: <u>470-0958</u> Email: <u>ReveDeVries@FranzeuEnvironmental.com</u>		<b>PROJECT INFORMATION</b> O. citation: <u>115 Pe Windsor - Shell Cont.</u> P.O. #: <u>NA</u> Project #: <u>3875</u> Project Name: <u>Shell</u> Location: <u>3005 Dundas St. W. Oakville</u> Sampled By: <u>C. Franke/RJ</u>		<b>MAXXAM JOB NUMBER</b> CHAIN OF CUSTODY # <u>00507452</u>	
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**REGULATORY CRITERIA**  
 Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form.

MSA     Reg. 153     Sewer Use     Other  
 PWCO     Table 1     Sanitary     specify  
 Reg. 558     Table 2     Storm  
 Report Criteria on C of A?     Table 3     Region:

**ANALYSIS REQUESTED (Please be specific)**

Regular (Standard) TAT: 5 to 7 Working Days  
 Rush TAT: Rush Confirmation #: \_\_\_\_\_ (call Lab for #)  
 1 day

DATE Require: 19-Dec-07 14:09  
 TIME Require: TTM DAS  
 Please note that TAT for 1 contact your Project Man: A7E0824  
 S\_A    ENV-657

**SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM.**

Sample Identificator	Date Sampled	Time Sampled	Matrix (ex. SW, SW, etc.)	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Date	Time	RECEIVED BY (Signature/Print)	RECEIVED BY (Signature/Print)	Temperature (°C) on Receipt	Condition of Sample on Receipt
1	Dec 17 07	12:10	Sci 1	X	X	12/17/07	14:09	Carl Franke/Khanter	Carl Franke/Khanter	7/4/07	OK
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

**LABORATORY USE ONLY**

Temperature (°C) on Receipt: 7/4/07  
 Condition of Sample on Receipt:  OK     SIF

\*MANDATORY SECTIONS IN GREY MUST BE FILLED OUT. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.  
 ENV-CC-06-0607    Rev. 11/04

DATA QUALITY REVIEW CHECKLIST

Consultant: Wardrop Engineering Inc. Sampling Date: December 17, 2007  
 Location: 3005 Dundas Street, Oakville, Ontario Laboratory: Maxxam Analytics Inc.  
 Consultant Project Number: 08134801-01 Maxxam Job Number: A7E0824

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery	X			- all lab QC have met acceptance criteria
Extraction Surrogate Recovery	X			
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery	X			

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	
Trip Blank Concentration			X	
Field Duplicate RPD			X	

Has CoA been signed off (Yes/No)?:

Has lab warranted all tests were in statistical control in CoA (Yes/No)?:

Has lab warranted all tests were analyzed following SOP's in CoA (Yes/No)?:

Were all samples analyzed within hold times (Yes/No)?:

All volatiles samples methanol extracted (if required) within 48 hours (Yes/No)?:

Is Chain of Custody completed and signed (Yes/No)?:

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes  
Yes  
Yes  
Yes  
Yes  
Yes  
Yes

Was a Data Quality Waiver (DQW) issued (Yes/No)?:

No

Date Issued: NA


Date of Response: NA

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Fatema Tawawala

Data Reviewed by (Signature): 

Date: January 15, 2008



Your Project #: 3875  
Site: 3005 DUNDAS ST.W. OAKVILLE  
Your C.O.C. #: C64286

**Attention: Jeff Muir/Rene De Vries**  
CPG-Franz Inc  
15-250 Shields Crt  
Markham, ON  
L3R 9W7

**Report Date: 2008/01/15**

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: A802259**  
**Received: 2008/01/09, 14:41**

Sample Matrix: Water  
# Samples Received: 10

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	10	N/A	2008/01/11	CAM SOP-00315	CCME CWS
Petroleum Hydrocarbons F2-F4 in Water	10	2008/01/12	2008/01/14	CAM SOP-00316	CCME Hydrocarbons
Dissolved Metals by ICPMS	7	N/A	2008/01/11	CAM SOP-00447	EPA 6020
Volatile Organic Compounds in Water	7	N/A	2008/01/11	CAM SOP-00226	EPA 8260 modified

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key  Renata Szurski  
15 Jan 2008 15:12:24 -05:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

KRISTEN BURMEISTER, Project Manager  
Email: Kristen.Burmeister@maxxamanalytics.com  
Phone# (905) 817-5700 Ext:5816

=====  
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 1

Page 1 of 19

Maxxam Job #: A802259  
Report Date: 2008/01/15

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W. OAKVILLE  
Sampler Initials:

**OREG 153 PETROLEUM HYDROCARBONS (WATER)**

Maxxam ID		W69277	W69278		
Sampling Date		2008/01/08 11:00	2008/01/08 11:15		
COC Number		C64286	C64286		
	<b>Units</b>	<b>BH1</b>	<b>BH2</b>	<b>RDL</b>	<b>QC Batch</b>

<b>F1 PHC and BTEX</b>					
Benzene	ug/L	ND	31	0.2	1439040
Toluene	ug/L	0.3	9.5	0.2	1439040
Ethylbenzene	ug/L	ND	13	0.2	1439040
o-Xylene	ug/L	ND	19	0.2	1439040
p+m-Xylene	ug/L	ND	53	0.4	1439040
Total Xylenes	ug/L	ND	71	0.4	1439040
F1 (C6-C10)	ug/L	ND	170	100	1439040
F1 (C6-C10) - BTEX	ug/L	ND	ND	100	1439040
<b>F2-F4 PHC</b>					
F2 (C10-C16 Hydrocarbons)	ug/L	ND	ND	100	1439736
F3 (C16-C34 Hydrocarbons)	ug/L	ND	ND	100	1439736
F4 (C34-C50 Hydrocarbons)	ug/L	ND	ND	100	1439736
Reached Baseline at C50	ug/L	Yes	Yes		1439736
<b>Surrogate Recovery (%)</b>					
1,4-Difluorobenzene	%	100	100		1439040
4-Bromofluorobenzene	%	99	99		1439040
D10-Ethylbenzene	%	109	115		1439040
D4-1,2-Dichloroethane	%	101	100		1439040
o-Terphenyl	%	74	72		1439736
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: A802259  
Report Date: 2008/01/15

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W. OAKVILLE  
Sampler Initials:

**OREG 153 PETROLEUM HYDROCARBONS (WATER)**

Maxxam ID		W69279	W69280		
Sampling Date		2008/01/08 11:30	2008/01/08 11:45		
COC Number		C64286	C64286		
	<b>Units</b>	<b>BH3</b>	<b>BH4</b>	<b>RDL</b>	<b>QC Batch</b>

<b>F1 PHC and BTEX</b>					
F1 (C6-C10)	ug/L	10000	3000	1000	1439040
F1 (C6-C10) - BTEX	ug/L	5900	ND	1000	1439040
<b>F2-F4 PHC</b>					
F2 (C10-C16 Hydrocarbons)	ug/L	4900	860	100	1439736
F3 (C16-C34 Hydrocarbons)	ug/L	ND	ND	100	1439736
F4 (C34-C50 Hydrocarbons)	ug/L	ND	ND	100	1439736
Reached Baseline at C50	ug/L	Yes	Yes		1439736
<b>Surrogate Recovery (%)</b>					
1,4-Difluorobenzene	%	95	93		1439040
4-Bromofluorobenzene	%	102	102		1439040
D10-Ethylbenzene	%	103	112		1439040
D4-1,2-Dichloroethane	%	111	114		1439040
o-Terphenyl	%	89	71		1439736
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: A802259  
Report Date: 2008/01/15

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W. OAKVILLE  
Sampler Initials:

**OREG 153 PETROLEUM HYDROCARBONS (WATER)**

Maxxam ID		W69281	W69282		
Sampling Date		2008/01/08 12:00	2008/01/08 12:15		
COC Number		C64286	C64286		
	<b>Units</b>	<b>BH5</b>	<b>BH6</b>	<b>RDL</b>	<b>QC Batch</b>

<b>F1 PHC and BTEX</b>					
Benzene	ug/L	2700		2	1439040
Toluene	ug/L	3000		2	1439040
Ethylbenzene	ug/L	430		2	1439040
o-Xylene	ug/L	650		2	1439040
p+m-Xylene	ug/L	300		4	1439040
Total Xylenes	ug/L	950		4	1439040
F1 (C6-C10)	ug/L	5000	3500	1000	1439040
F1 (C6-C10) - BTEX	ug/L	ND	ND	1000	1439040
<b>F2-F4 PHC</b>					
F2 (C10-C16 Hydrocarbons)	ug/L	710	900	100	1439736
F3 (C16-C34 Hydrocarbons)	ug/L	130	140	100	1439736
F4 (C34-C50 Hydrocarbons)	ug/L	ND	ND	100	1439736
Reached Baseline at C50	ug/L	Yes	Yes		1439736
<b>Surrogate Recovery (%)</b>					
1,4-Difluorobenzene	%	94	92		1439040
4-Bromofluorobenzene	%	103	102		1439040
D10-Ethylbenzene	%	100	119		1439040
D4-1,2-Dichloroethane	%	114	113		1439040
o-Terphenyl	%	90	91		1439736

ND = Not detected  
RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A802259  
Report Date: 2008/01/15

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W. OAKVILLE  
Sampler Initials:

**OREG 153 PETROLEUM HYDROCARBONS (WATER)**

Maxxam ID		W69283		W69284		
Sampling Date		2008/01/08 12:30				
COC Number		C64286		C64286		
	<b>Units</b>	<b>FB</b>	<b>RDL</b>	<b>DUP</b>	<b>RDL</b>	<b>QC Batch</b>

<b>F1 PHC and BTEX</b>						
F1 (C6-C10)	ug/L	ND	100	2700	1000	1439040
F1 (C6-C10) - BTEX	ug/L	ND	100	ND	1000	1439040
<b>F2-F4 PHC</b>						
F2 (C10-C16 Hydrocarbons)	ug/L	ND	100	1100	100	1439736
F3 (C16-C34 Hydrocarbons)	ug/L	ND	100	130	100	1439736
F4 (C34-C50 Hydrocarbons)	ug/L	ND	100	ND	100	1439736
Reached Baseline at C50	ug/L	Yes		Yes		1439736
<b>Surrogate Recovery (%)</b>						
1,4-Difluorobenzene	%	99		98		1439040
4-Bromofluorobenzene	%	100		101		1439040
D10-Ethylbenzene	%	103		95		1439040
D4-1,2-Dichloroethane	%	103		104		1439040
o-Terphenyl	%	90		81		1439736

ND = Not detected  
RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A802259  
Report Date: 2008/01/15

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W. OAKVILLE  
Sampler Initials:

**OREG 153 PETROLEUM HYDROCARBONS (WATER)**

Maxxam ID		W69285	W69286		
Sampling Date					
COC Number		C64286	C64286		
	<b>Units</b>	<b>TRIP BLANK</b>	<b>TRIP SPIKE</b>	<b>RDL</b>	<b>QC Batch</b>

<b>F1 PHC and BTEX</b>					
F1 (C6-C10)	ug/L	ND		100	1439040
F1 (C6-C10) - BTEX	ug/L	ND		100	1439040
<b>F2-F4 PHC</b>					
F2 (C10-C16 Hydrocarbons)	ug/L	ND	79%	100	1439736
F3 (C16-C34 Hydrocarbons)	ug/L	ND	79%	100	1439736
F4 (C34-C50 Hydrocarbons)	ug/L	ND	79%	100	1439736
Reached Baseline at C50	ug/L	Yes	Yes		1439736
<b>Surrogate Recovery (%)</b>					
1,4-Difluorobenzene	%	101	99		1439040
4-Bromofluorobenzene	%	98	98		1439040
D10-Ethylbenzene	%	101	108		1439040
D4-1,2-Dichloroethane	%	98	99		1439040
o-Terphenyl	%	81	71		1439736

ND = Not detected  
RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A802259  
Report Date: 2008/01/15

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W. OAKVILLE  
Sampler Initials:

**O'REG 153 ICPMS DISSOLVED METALS (WATER)**

Maxxam ID		W69279	W69280	W69282	W69283		
Sampling Date		2008/01/08 11:30	2008/01/08 11:45	2008/01/08 12:15	2008/01/08 12:30		
COC Number		C64286	C64286	C64286	C64286		
	<b>Units</b>	<b>BH3</b>	<b>BH4</b>	<b>BH6</b>	<b>FB</b>	<b>RDL</b>	<b>QC Batch</b>

<b>METALS</b>							
Dissolved Lead (Pb)	ug/L	ND	ND	ND	ND	0.5	1439391
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam ID		W69284		W69285	W69286		
Sampling Date							
COC Number		C64286		C64286	C64286		
	<b>Units</b>	<b>DUP</b>	<b>QC Batch</b>	<b>TRIP BLANK</b>	<b>TRIP SPIKE</b>	<b>RDL</b>	<b>QC Batch</b>

<b>METALS</b>							
Dissolved Lead (Pb)	ug/L	4.5	1439391	ND	99 (1)	0.5	1439099
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch ( 1 ) Result is expressed as percentage recovery							

Maxxam Job #: A802259  
Report Date: 2008/01/15

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W. OAKVILLE  
Sampler Initials:

**VOLATILE ORGANICS BY GC/MS (WATER)**

Maxxam ID		W69279		W69280		
Sampling Date		2008/01/08 11:30		2008/01/08 11:45		
COC Number		C64286		C64286		
	<b>Units</b>	<b>BH3</b>	<b>RDL</b>	<b>BH4</b>	<b>RDL</b>	<b>QC Batch</b>

<b>VOLATILES</b>						
Acetone (2-Propanone)	ug/L	ND	5000	ND	5000	1438789
Benzene	ug/L	340	50	2000	50	1438789
Bromodichloromethane	ug/L	ND	50	ND	50	1438789
Bromoform	ug/L	ND	100	ND	100	1438789
Bromomethane	ug/L	ND	300	ND	300	1438789
Carbon Tetrachloride	ug/L	ND	50	ND	50	1438789
Chlorobenzene	ug/L	ND	50	ND	50	1438789
Chloroform	ug/L	ND	50	ND	50	1438789
Dibromochloromethane	ug/L	ND	100	ND	100	1438789
1,2-Dichlorobenzene	ug/L	ND	100	ND	100	1438789
1,3-Dichlorobenzene	ug/L	ND	100	ND	100	1438789
1,4-Dichlorobenzene	ug/L	ND	100	ND	100	1438789
1,1-Dichloroethane	ug/L	ND	50	ND	50	1438789
1,2-Dichloroethane	ug/L	ND	50	ND (1)	90	1438789
1,1-Dichloroethylene	ug/L	ND	50	ND	50	1438789
cis-1,2-Dichloroethylene	ug/L	ND	50	ND	50	1438789
trans-1,2-Dichloroethylene	ug/L	ND	50	ND	50	1438789
1,2-Dichloropropane	ug/L	ND	50	ND	50	1438789
cis-1,3-Dichloropropene	ug/L	ND	100	ND	100	1438789
trans-1,3-Dichloropropene	ug/L	ND	100	ND	100	1438789
Ethylbenzene	ug/L	630	50	660	50	1438789
Ethylene Dibromide	ug/L	ND	100	ND	100	1438789
Methylene Chloride(Dichloromethane)	ug/L	ND	300	ND	300	1438789
Methyl Isobutyl Ketone	ug/L	ND	3000	ND	3000	1438789
Methyl Ethyl Ketone (2-Butanone)	ug/L	ND	3000	ND	3000	1438789
Methyl t-butyl ether (MTBE)	ug/L	ND	100	2000	100	1438789
Styrene	ug/L	ND	50	ND	50	1438789
1,1,1,2-Tetrachloroethane	ug/L	ND	50	ND	50	1438789
1,1,2,2-Tetrachloroethane	ug/L	ND	100	ND	100	1438789
Tetrachloroethylene	ug/L	ND	50	ND	50	1438789

ND = Not detected  
RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch  
( 1 ) Detection limit was raised due to interference from coeluting benzene.



Maxxam Job #: A802259  
Report Date: 2008/01/15

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W. OAKVILLE  
Sampler Initials:

**VOLATILE ORGANICS BY GC/MS (WATER)**

Maxxam ID		W69279		W69280		
Sampling Date		2008/01/08 11:30		2008/01/08 11:45		
COC Number		C64286		C64286		
	Units	BH3	RDL	BH4	RDL	QC Batch
Toluene	ug/L	ND	100	ND	100	1438789
1,1,1-Trichloroethane	ug/L	ND	50	ND	50	1438789
1,1,2-Trichloroethane	ug/L	ND	100	ND	100	1438789
Trichloroethylene	ug/L	ND	50	ND	50	1438789
Vinyl Chloride	ug/L	ND	100	ND	100	1438789
p+m-Xylene	ug/L	2800	50	380	50	1438789
o-Xylene	ug/L	320	50	ND	50	1438789
Xylene (Total)	ug/L	3100	50	380	50	1438789
<b>Surrogate Recovery (%)</b>						
4-Bromofluorobenzene	%	96		94		1438789
D4-1,2-Dichloroethane	%	102		99		1438789
D8-Toluene	%	102		102		1438789
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A802259  
Report Date: 2008/01/15

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W. OAKVILLE  
Sampler Initials:

**VOLATILE ORGANICS BY GC/MS (WATER)**

Maxxam ID		W69282		W69283		
Sampling Date		2008/01/08 12:15		2008/01/08 12:30		
COC Number		C64286		C64286		
	<b>Units</b>	<b>BH6</b>	<b>RDL</b>	<b>FB</b>	<b>RDL</b>	<b>QC Batch</b>

VOLATILES						
Acetone (2-Propanone)	ug/L	ND	3000	ND	10	1438789
Benzene	ug/L	2600	30	ND	0.1	1438789
Bromodichloromethane	ug/L	ND	30	ND	0.1	1438789
Bromoform	ug/L	ND	50	ND	0.2	1438789
Bromomethane	ug/L	ND	100	ND	0.5	1438789
Carbon Tetrachloride	ug/L	ND	30	ND	0.1	1438789
Chlorobenzene	ug/L	ND	30	ND	0.1	1438789
Chloroform	ug/L	ND	30	ND	0.1	1438789
Dibromochloromethane	ug/L	ND	50	ND	0.2	1438789
1,2-Dichlorobenzene	ug/L	ND	50	ND	0.2	1438789
1,3-Dichlorobenzene	ug/L	ND	50	ND	0.2	1438789
1,4-Dichlorobenzene	ug/L	ND	50	ND	0.2	1438789
1,1-Dichloroethane	ug/L	ND	30	ND	0.1	1438789
1,2-Dichloroethane	ug/L	ND (1)	100	ND	0.1	1438789
1,1-Dichloroethylene	ug/L	ND	30	ND	0.1	1438789
cis-1,2-Dichloroethylene	ug/L	ND	30	ND	0.1	1438789
trans-1,2-Dichloroethylene	ug/L	ND	30	ND	0.1	1438789
1,2-Dichloropropane	ug/L	ND	30	ND	0.1	1438789
cis-1,3-Dichloropropene	ug/L	ND	50	ND	0.2	1438789
trans-1,3-Dichloropropene	ug/L	ND	50	ND	0.2	1438789
Ethylbenzene	ug/L	460	30	ND	0.1	1438789
Ethylene Dibromide	ug/L	ND	50	ND	0.2	1438789
Methylene Chloride(Dichloromethane)	ug/L	ND	100	ND	0.5	1438789
Methyl Isobutyl Ketone	ug/L	ND	1000	ND	5	1438789
Methyl Ethyl Ketone (2-Butanone)	ug/L	ND	1000	ND	5	1438789
Methyl t-butyl ether (MTBE)	ug/L	180	50	ND	0.2	1438789
Styrene	ug/L	ND	30	ND	0.1	1438789
1,1,1,2-Tetrachloroethane	ug/L	ND	30	ND	0.1	1438789
1,1,2,2-Tetrachloroethane	ug/L	ND	50	ND	0.2	1438789
Tetrachloroethylene	ug/L	ND	30	ND	0.1	1438789

ND = Not detected  
RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch  
( 1 ) Detection limit was raised due to interference from coeluting benzene.

Maxxam Job #: A802259  
Report Date: 2008/01/15

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W. OAKVILLE  
Sampler Initials:

**VOLATILE ORGANICS BY GC/MS (WATER)**

Maxxam ID		W69282		W69283		
Sampling Date		2008/01/08 12:15		2008/01/08 12:30		
COC Number		C64286		C64286		
	<b>Units</b>	<b>BH6</b>	<b>RDL</b>	<b>FB</b>	<b>RDL</b>	<b>QC Batch</b>

Toluene	ug/L	ND	50	ND	0.2	1438789
1,1,1-Trichloroethane	ug/L	ND	30	ND	0.1	1438789
1,1,2-Trichloroethane	ug/L	ND	50	ND	0.2	1438789
Trichloroethylene	ug/L	ND	30	ND	0.1	1438789
Vinyl Chloride	ug/L	ND	50	ND	0.2	1438789
p+m-Xylene	ug/L	1900	30	ND	0.1	1438789
o-Xylene	ug/L	43	30	ND	0.1	1438789
Xylene (Total)	ug/L	1900	30	ND	0.1	1438789
<b>Surrogate Recovery (%)</b>						
4-Bromofluorobenzene	%	95		93		1438789
D4-1,2-Dichloroethane	%	98		99		1438789
D8-Toluene	%	105		103		1438789

ND = Not detected  
RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A802259  
Report Date: 2008/01/15

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W. OAKVILLE  
Sampler Initials:

**VOLATILE ORGANICS BY GC/MS (WATER)**

Maxxam ID		W69284		W69285	W69286		
Sampling Date							
COC Number		C64286		C64286	C64286		
	<b>Units</b>	<b>DUP</b>	<b>RDL</b>	<b>TRIP BLANK</b>	<b>TRIP SPIKE</b>	<b>RDL</b>	<b>QC Batch</b>

<b>VOLATILES</b>							
Acetone (2-Propanone)	ug/L	ND	5000	ND	99	10	1438789
Benzene	ug/L	2300	50	ND	96	0.1	1438789
Bromodichloromethane	ug/L	ND	50	ND	98	0.1	1438789
Bromoform	ug/L	ND	100	ND	110	0.2	1438789
Bromomethane	ug/L	ND	300	ND	100	0.5	1438789
Carbon Tetrachloride	ug/L	ND	50	ND	100	0.1	1438789
Chlorobenzene	ug/L	ND	50	ND	100	0.1	1438789
Chloroform	ug/L	ND	50	ND	97	0.1	1438789
Dibromochloromethane	ug/L	ND	100	ND	100	0.2	1438789
1,2-Dichlorobenzene	ug/L	ND	100	ND	98	0.2	1438789
1,3-Dichlorobenzene	ug/L	ND	100	ND	100	0.2	1438789
1,4-Dichlorobenzene	ug/L	ND	100	ND	100	0.2	1438789
1,1-Dichloroethane	ug/L	ND	50	ND	100	0.1	1438789
1,2-Dichloroethane	ug/L	ND (1)	100	ND	94	0.1	1438789
1,1-Dichloroethylene	ug/L	ND	50	ND	100	0.1	1438789
cis-1,2-Dichloroethylene	ug/L	ND	50	ND	97	0.1	1438789
trans-1,2-Dichloroethylene	ug/L	ND	50	ND	97	0.1	1438789
1,2-Dichloropropane	ug/L	ND	50	ND	97	0.1	1438789
cis-1,3-Dichloropropene	ug/L	ND	100	ND	84	0.2	1438789
trans-1,3-Dichloropropene	ug/L	ND	100	ND	85	0.2	1438789
Ethylbenzene	ug/L	930	50	ND	100	0.1	1438789
Ethylene Dibromide	ug/L	ND	100	ND	100	0.2	1438789
Methylene Chloride(Dichloromethane)	ug/L	ND	300	ND	99	0.5	1438789
Methyl Isobutyl Ketone	ug/L	ND	3000	ND	95	5	1438789
Methyl Ethyl Ketone (2-Butanone)	ug/L	ND	3000	ND	99	5	1438789
Methyl t-butyl ether (MTBE)	ug/L	1800	100	ND	96	0.2	1438789
Styrene	ug/L	ND	50	ND	97	0.1	1438789
1,1,1,2-Tetrachloroethane	ug/L	ND	50	ND	98	0.1	1438789
1,1,1,2,2-Tetrachloroethane	ug/L	ND	100	ND	96	0.2	1438789
Tetrachloroethylene	ug/L	ND	50	ND	97	0.1	1438789
Toluene	ug/L	ND	100	ND	100	0.2	1438789

ND = Not detected  
RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch  
( 1 ) Detection limit was raised due to interference from coeluting benzene.

Maxxam Job #: A802259  
Report Date: 2008/01/15

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W. OAKVILLE  
Sampler Initials:

**VOLATILE ORGANICS BY GC/MS (WATER)**

Maxxam ID		W69284		W69285	W69286		
Sampling Date							
COC Number		C64286		C64286	C64286		
	<b>Units</b>	<b>DUP</b>	<b>RDL</b>	<b>TRIP BLANK</b>	<b>TRIP SPIKE</b>	<b>RDL</b>	<b>QC Batch</b>

1,1,1-Trichloroethane	ug/L	ND	50	ND	99	0.1	1438789
1,1,2-Trichloroethane	ug/L	ND	100	ND	99	0.2	1438789
Trichloroethylene	ug/L	ND	50	ND	98	0.1	1438789
Vinyl Chloride	ug/L	ND	100	ND	110	0.2	1438789
p+m-Xylene	ug/L	650	50	ND	98	0.1	1438789
o-Xylene	ug/L	ND	50	ND	100	0.1	1438789
Xylene (Total)	ug/L	650	50	ND		0.1	1438789
<b>Surrogate Recovery (%)</b>							
4-Bromofluorobenzene	%	94		93	100		1438789
D4-1,2-Dichloroethane	%	99		97	95		1438789
D8-Toluene	%	102		104	102		1438789

ND = Not detected  
RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A802259  
Report Date: 2008/01/15

CPG-Franz Inc  
Client Project #: 3875  
Project name: 3005 DUNDAS ST.W. OAKVILLE  
Sampler Initials:

**GENERAL COMMENTS**

VOC Analysis: Due to high concentrations of target analytes, most of the samples required dilution. Detection limits were adjusted accordingly.

Sample W69279-01: F1/BTEX Analysis: The BTEX results used for the F1-BTEX calculation were obtained from Headspace-GC analysis.

Sample W69280-01: F1/BTEX Analysis: The BTEX results used for the F1-BTEX calculation were obtained from Headspace-GC analysis. Due to high concentration of target analytes, sample required dilution. Reporting limits were adjusted accordingly.

Sample W69281-01: F1/BTEX Analysis: Due to high concentration of target analytes, sample required dilution. Reporting limits were adjusted accordingly.

Sample W69282-01: F1/BTEX Analysis: The BTEX results used for the F1-BTEX calculation were obtained from Headspace-GC analysis. Due to high concentration of target analytes, sample required dilution. Reporting limits were adjusted accordingly.

Sample W69283-01: F1/BTEX Analysis: The BTEX results used for the F1-BTEX calculation were obtained from Headspace-GC analysis.

Sample W69284-01: F1/BTEX Analysis: The BTEX results used for the F1-BTEX calculation were obtained from Headspace-GC analysis. Due to high concentration of target analytes, sample required dilution. Reporting limits were adjusted accordingly.

Sample W69285-01: F1/BTEX Analysis: The BTEX results used for the F1-BTEX calculation were obtained from Headspace-GC analysis.

Sample W69286-01: VOC Analysis: Trip Spike results are expressed as percent recoveries.

- F2-F4 Analysis: Trip spike results are expressed as percentage of the spiked amounts.

**Results relate only to the items tested.**

CPG-Franz Inc  
Attention: Jeff Muir/Rene De Vries  
Client Project #: 3875  
P.O. #:  
Project name: 3005 DUNDAS ST.W. OAKVILLE

Quality Assurance Report  
Maxxam Job Number: MA802259

QA/QC Batch	Date Analyzed	Value	Recovery	Units	QC Limits
Num Init	QC Type	Parameter	yyyy/mm/dd		
1438789 AAD	MATRIX SPIKE	4-Bromofluorobenzene	2008/01/11	100	% 70 - 130
		D4-1,2-Dichloroethane	2008/01/11	95	% 70 - 130
		D8-Toluene	2008/01/11	103	% 70 - 130
		Acetone (2-Propanone)	2008/01/11	226 (1)	% 60 - 140
		Benzene	2008/01/11	102	% 70 - 130
		Bromodichloromethane	2008/01/11	104	% 70 - 130
		Bromoform	2008/01/11	120	% 70 - 130
		Bromomethane	2008/01/11	108	% 60 - 140
		Carbon Tetrachloride	2008/01/11	110	% 70 - 130
		Chlorobenzene	2008/01/11	109	% 70 - 130
		Chloroform	2008/01/11	103	% 70 - 130
		Dibromochloromethane	2008/01/11	106	% 70 - 130
		1,2-Dichlorobenzene	2008/01/11	105	% 70 - 130
		1,3-Dichlorobenzene	2008/01/11	113	% 70 - 130
		1,4-Dichlorobenzene	2008/01/11	113	% 70 - 130
		1,1-Dichloroethane	2008/01/11	107	% 70 - 130
		1,2-Dichloroethane	2008/01/11	98	% 70 - 130
		1,1-Dichloroethylene	2008/01/11	112	% 70 - 130
		cis-1,2-Dichloroethylene	2008/01/11	103	% 70 - 130
		trans-1,2-Dichloroethylene	2008/01/11	107	% 70 - 130
		1,2-Dichloropropane	2008/01/11	102	% 70 - 130
		cis-1,3-Dichloropropene	2008/01/11	104	% 70 - 130
		trans-1,3-Dichloropropene	2008/01/11	104	% 70 - 130
		Ethylbenzene	2008/01/11	111	% 70 - 130
		Ethylene Dibromide	2008/01/11	101	% 70 - 130
		Methylene Chloride(Dichloromethane)	2008/01/11	104	% 70 - 130
		Methyl Isobutyl Ketone	2008/01/11	107	% 60 - 140
		Methyl Ethyl Ketone (2-Butanone)	2008/01/11	167 (1)	% 60 - 140
		Methyl t-butyl ether (MTBE)	2008/01/11	97	% 70 - 130
		Styrene	2008/01/11	107	% 70 - 130
		1,1,1,2-Tetrachloroethane	2008/01/11	105	% 70 - 130
		1,1,2,2-Tetrachloroethane	2008/01/11	98	% 70 - 130
		Tetrachloroethylene	2008/01/11	111	% 70 - 130
		Toluene	2008/01/11	109	% 70 - 130
		1,1,1-Trichloroethane	2008/01/11	107	% 70 - 130
		1,1,2-Trichloroethane	2008/01/11	102	% 70 - 130
		Trichloroethylene	2008/01/11	106	% 70 - 130
		Vinyl Chloride	2008/01/11	120	% 70 - 130
		p+m-Xylene	2008/01/11	110	% 70 - 130
		o-Xylene	2008/01/11	112	% 70 - 130
	Spiked Blank	4-Bromofluorobenzene	2008/01/11	102	% 70 - 130
		D4-1,2-Dichloroethane	2008/01/11	95	% 70 - 130
		D8-Toluene	2008/01/11	103	% 70 - 130
		Acetone (2-Propanone)	2008/01/11	98	% 60 - 140
		Benzene	2008/01/11	95	% 70 - 130
		Bromodichloromethane	2008/01/11	97	% 70 - 130
		Bromoform	2008/01/11	117	% 70 - 130
		Bromomethane	2008/01/11	96	% 60 - 140
		Carbon Tetrachloride	2008/01/11	101	% 70 - 130
		Chlorobenzene	2008/01/11	104	% 70 - 130
		Chloroform	2008/01/11	97	% 70 - 130
		Dibromochloromethane	2008/01/11	102	% 70 - 130
		1,2-Dichlorobenzene	2008/01/11	99	% 70 - 130
		1,3-Dichlorobenzene	2008/01/11	103	% 70 - 130
		1,4-Dichlorobenzene	2008/01/11	103	% 70 - 130

CPG-Franz Inc  
Attention: Jeff Muir/Rene De Vries  
Client Project #: 3875  
P.O. #:  
Project name: 3005 DUNDAS ST.W. OAKVILLE

Quality Assurance Report (Continued)

Maxxam Job Number: MA802259

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
1438789 AAD	Spiked Blank	1,1-Dichloroethane	2008/01/11		100	%	70 - 130		
		1,2-Dichloroethane	2008/01/11		94	%	70 - 130		
		1,1-Dichloroethylene	2008/01/11		104	%	70 - 130		
		cis-1,2-Dichloroethylene	2008/01/11		97	%	70 - 130		
		trans-1,2-Dichloroethylene	2008/01/11		99	%	70 - 130		
		1,2-Dichloropropane	2008/01/11		97	%	70 - 130		
		cis-1,3-Dichloropropene	2008/01/11		95	%	70 - 130		
		trans-1,3-Dichloropropene	2008/01/11		96	%	70 - 130		
		Ethylbenzene	2008/01/11		103	%	70 - 130		
		Ethylene Dibromide	2008/01/11		101	%	70 - 130		
		Methylene Chloride(Dichloromethane)	2008/01/11		98	%	70 - 130		
		Methyl Isobutyl Ketone	2008/01/11		97	%	60 - 140		
		Methyl Ethyl Ketone (2-Butanone)	2008/01/11		100	%	60 - 140		
		Methyl t-butyl ether (MTBE)	2008/01/11		96	%	70 - 130		
		Styrene	2008/01/11		102	%	70 - 130		
		1,1,1,2-Tetrachloroethane	2008/01/11		100	%	70 - 130		
		1,1,2,2-Tetrachloroethane	2008/01/11		99	%	70 - 130		
		Tetrachloroethylene	2008/01/11		103	%	70 - 130		
		Toluene	2008/01/11		102	%	70 - 130		
		1,1,1-Trichloroethane	2008/01/11		99	%	70 - 130		
		1,1,2-Trichloroethane	2008/01/11		100	%	70 - 130		
		Trichloroethylene	2008/01/11		98	%	70 - 130		
		Vinyl Chloride	2008/01/11		112	%	70 - 130		
		p+m-Xylene	2008/01/11		102	%	70 - 130		
		o-Xylene	2008/01/11		105	%	70 - 130		
		Method Blank	Method Blank	4-Bromofluorobenzene	2008/01/11		95	%	70 - 130
				D4-1,2-Dichloroethane	2008/01/11		97	%	70 - 130
				D8-Toluene	2008/01/11		103	%	70 - 130
				Acetone (2-Propanone)	2008/01/11	ND, RDL=10		ug/L	
				Benzene	2008/01/11	ND, RDL=0.1		ug/L	
				Bromodichloromethane	2008/01/11	ND, RDL=0.1		ug/L	
				Bromoform	2008/01/11	ND, RDL=0.2		ug/L	
Bromomethane	2008/01/11			ND, RDL=0.5		ug/L			
Carbon Tetrachloride	2008/01/11			ND, RDL=0.1		ug/L			
Chlorobenzene	2008/01/11			ND, RDL=0.1		ug/L			
Chloroform	2008/01/11			ND, RDL=0.1		ug/L			
Dibromochloromethane	2008/01/11			ND, RDL=0.2		ug/L			
1,2-Dichlorobenzene	2008/01/11			ND, RDL=0.2		ug/L			
1,3-Dichlorobenzene	2008/01/11			ND, RDL=0.2		ug/L			
1,4-Dichlorobenzene	2008/01/11			ND, RDL=0.2		ug/L			
1,1-Dichloroethane	2008/01/11			ND, RDL=0.1		ug/L			
1,2-Dichloroethane	2008/01/11			ND, RDL=0.1		ug/L			
1,1-Dichloroethylene	2008/01/11			ND, RDL=0.1		ug/L			
cis-1,2-Dichloroethylene	2008/01/11			ND, RDL=0.1		ug/L			
trans-1,2-Dichloroethylene	2008/01/11			ND, RDL=0.1		ug/L			
1,2-Dichloropropane	2008/01/11			ND, RDL=0.1		ug/L			
cis-1,3-Dichloropropene	2008/01/11			ND, RDL=0.2		ug/L			
trans-1,3-Dichloropropene	2008/01/11			ND, RDL=0.2		ug/L			
Ethylbenzene	2008/01/11			ND, RDL=0.1		ug/L			
Ethylene Dibromide	2008/01/11			ND, RDL=0.2		ug/L			
Methylene Chloride(Dichloromethane)	2008/01/11			ND, RDL=0.5		ug/L			
Methyl Isobutyl Ketone	2008/01/11			ND, RDL=5		ug/L			
Methyl Ethyl Ketone (2-Butanone)	2008/01/11			ND, RDL=5		ug/L			
Methyl t-butyl ether (MTBE)	2008/01/11			ND, RDL=0.2		ug/L			
Styrene	2008/01/11			ND, RDL=0.1		ug/L			



CPG-Franz Inc  
Attention: Jeff Muir/Rene De Vries  
Client Project #: 3875  
P.O. #:  
Project name: 3005 DUNDAS ST.W. OAKVILLE

Quality Assurance Report (Continued)

Maxxam Job Number: MA802259

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1438789 AAD	Method Blank	1,1,1,2-Tetrachloroethane	2008/01/11	ND, RDL=0.1		ug/L		
		1,1,2,2-Tetrachloroethane	2008/01/11	ND, RDL=0.2		ug/L		
		Tetrachloroethylene	2008/01/11	ND, RDL=0.1		ug/L		
		Toluene	2008/01/11	ND, RDL=0.2		ug/L		
		1,1,1-Trichloroethane	2008/01/11	ND, RDL=0.1		ug/L		
		1,1,2-Trichloroethane	2008/01/11	ND, RDL=0.2		ug/L		
		Trichloroethylene	2008/01/11	ND, RDL=0.1		ug/L		
		Vinyl Chloride	2008/01/11	ND, RDL=0.2		ug/L		
		p+m-Xylene	2008/01/11	ND, RDL=0.1		ug/L		
		o-Xylene	2008/01/11	ND, RDL=0.1		ug/L		
		Xylene (Total)	2008/01/11	ND, RDL=0.1		ug/L		
		RPD	Benzene	2008/01/11	NC		%	40
			Bromodichloromethane	2008/01/11	NC		%	40
			Bromoform	2008/01/11	NC		%	40
			Bromomethane	2008/01/11	NC		%	40
			Carbon Tetrachloride	2008/01/11	NC		%	40
	Chlorobenzene		2008/01/11	NC		%	40	
	Chloroform		2008/01/11	NC		%	40	
	Dibromochloromethane		2008/01/11	NC		%	40	
	1,2-Dichlorobenzene		2008/01/11	NC		%	40	
	1,3-Dichlorobenzene		2008/01/11	NC		%	40	
	1,4-Dichlorobenzene		2008/01/11	NC		%	40	
	1,1-Dichloroethane		2008/01/11	1.6		%	40	
	1,2-Dichloroethane		2008/01/11	NC		%	40	
	1,1-Dichloroethylene		2008/01/11	NC		%	40	
	cis-1,2-Dichloroethylene		2008/01/11	2.8		%	40	
	trans-1,2-Dichloroethylene		2008/01/11	NC		%	40	
	1,2-Dichloropropane		2008/01/11	NC		%	40	
	cis-1,3-Dichloropropene		2008/01/11	NC		%	40	
	trans-1,3-Dichloropropene		2008/01/11	NC		%	40	
	Ethylbenzene		2008/01/11	NC		%	40	
	Ethylene Dibromide		2008/01/11	NC		%	40	
	Methylene Chloride(Dichloromethane)		2008/01/11	NC		%	40	
	1,1,1,2-Tetrachloroethane		2008/01/11	NC		%	40	
	1,1,2,2-Tetrachloroethane		2008/01/11	NC		%	40	
	Tetrachloroethylene	2008/01/11	NC		%	40		
	Toluene	2008/01/11	NC		%	40		
	1,1,1-Trichloroethane	2008/01/11	NC		%	40		
	1,1,2-Trichloroethane	2008/01/11	NC		%	40		
	Trichloroethylene	2008/01/11	NC		%	40		
Vinyl Chloride	2008/01/11	NC		%	40			
p+m-Xylene	2008/01/11	NC		%	40			
o-Xylene	2008/01/11	NC		%	40			
Xylene (Total)	2008/01/11	NC		%	40			
1439040 SPV	MATRIX SPIKE	1,4-Difluorobenzene	2008/01/11		100	%	70 - 130	
		4-Bromofluorobenzene	2008/01/11		99	%	70 - 130	
		D10-Ethylbenzene	2008/01/11		104	%	70 - 130	
		D4-1,2-Dichloroethane	2008/01/11		100	%	70 - 130	
		Benzene	2008/01/11		93	%	70 - 130	
		Toluene	2008/01/11		91	%	70 - 130	
		Ethylbenzene	2008/01/11		89	%	70 - 130	
		o-Xylene	2008/01/11		94	%	70 - 130	
		p+m-Xylene	2008/01/11		95	%	70 - 130	
		F1 (C6-C10)	2008/01/11		91	%	70 - 130	
		Spiked Blank	1,4-Difluorobenzene	2008/01/11		101	%	70 - 130

CPG-Franz Inc  
Attention: Jeff Muir/Rene De Vries  
Client Project #: 3875  
P.O. #:  
Project name: 3005 DUNDAS ST.W. OAKVILLE

Quality Assurance Report (Continued)

Maxxam Job Number: MA802259

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1439040 SPV	Spiked Blank	4-Bromofluorobenzene	2008/01/11		98	%	70 - 130	
		D10-Ethylbenzene	2008/01/11		106	%	70 - 130	
		D4-1,2-Dichloroethane	2008/01/11		98	%	70 - 130	
		Benzene	2008/01/11		88	%	70 - 130	
		Toluene	2008/01/11		91	%	70 - 130	
		Ethylbenzene	2008/01/11		90	%	70 - 130	
		o-Xylene	2008/01/11		94	%	70 - 130	
		p+m-Xylene	2008/01/11		95	%	70 - 130	
		F1 (C6-C10)	2008/01/11		103	%	70 - 130	
		Method Blank	1,4-Difluorobenzene	2008/01/11		101	%	70 - 130
			4-Bromofluorobenzene	2008/01/11		99	%	70 - 130
			D10-Ethylbenzene	2008/01/11		104	%	70 - 130
	D4-1,2-Dichloroethane		2008/01/11		99	%	70 - 130	
	Benzene		2008/01/11	ND, RDL=0.2			ug/L	
	Toluene		2008/01/11	ND, RDL=0.2			ug/L	
	Ethylbenzene		2008/01/11	ND, RDL=0.2			ug/L	
	o-Xylene		2008/01/11	ND, RDL=0.2			ug/L	
	p+m-Xylene		2008/01/11	ND, RDL=0.4			ug/L	
	Total Xylenes		2008/01/11	ND, RDL=0.4			ug/L	
	F1 (C6-C10)		2008/01/11	ND, RDL=100			ug/L	
	F1 (C6-C10) - BTEX		2008/01/11	ND, RDL=100			ug/L	
	RPD	F1 (C6-C10)	2008/01/11	NC			%	40
		F1 (C6-C10) - BTEX	2008/01/11	NC			%	40
1439099 HRE	MATRIX SPIKE	Dissolved Lead (Pb)	2008/01/11		103	%	80 - 120	
	Spiked Blank	Dissolved Lead (Pb)	2008/01/11		98	%	85 - 115	
	Method Blank	Dissolved Lead (Pb)	2008/01/11	ND, RDL=0.5		ug/L		
	RPD	Dissolved Lead (Pb)	2008/01/11	NC		%	25	
1439391 HRE	MATRIX SPIKE	Dissolved Lead (Pb)	2008/01/11		100	%	80 - 120	
	Spiked Blank	Dissolved Lead (Pb)	2008/01/11		101	%	85 - 115	
	Method Blank	Dissolved Lead (Pb)	2008/01/11	ND, RDL=0.5		ug/L		
	RPD	Dissolved Lead (Pb)	2008/01/11	NC		%	25	
1439736 NCI	MATRIX SPIKE	o-Terphenyl	2008/01/14		92	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2008/01/14		119	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2008/01/14		119	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2008/01/14		119	%	60 - 130	
	Spiked Blank	o-Terphenyl	2008/01/14		90	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2008/01/14		121	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2008/01/14		121	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2008/01/14		121	%	60 - 130	
	Method Blank	o-Terphenyl	2008/01/14		83	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2008/01/14	ND, RDL=100			ug/L	
		F3 (C16-C34 Hydrocarbons)	2008/01/14	ND, RDL=100			ug/L	
		F4 (C34-C50 Hydrocarbons)	2008/01/14	ND, RDL=100			ug/L	
	RPD	F2 (C10-C16 Hydrocarbons)	2008/01/14	NC			%	50
		F3 (C16-C34 Hydrocarbons)	2008/01/14	NC			%	50
		F4 (C34-C50 Hydrocarbons)	2008/01/14	NC			%	50

ND = Not detected  
NC = Non-calculable  
RPD = Relative Percent Difference  
SPIKE = Fortified sample

( 1 ) The recoveries for acetone and methyl ethyl ketone were above the upper control limits for the matrix spike. The recoveries were in control for the Spiked Blank. Responses for ketone compounds are highly matrix dependent. The high recoveries represent a potential high bias for these compounds for the spiked sample that may not necessarily apply to other samples reported.

**Validation Signature Page**

Maxxam Job #: A802259

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).


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EWA PRANJIC, M.Sc., C.Chem, Scientific Specialist



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MEDHAT RISKALLAH, Manager, Hydrocarbon Department

---

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

9-Jan-98 14:41  
CHRISTINE MCLEAN



A802259  
DKN  
ENV-938

CHAIN OF CUSTODY RECORD

PROJECT INFORMATION

Quotation # 663553  
P.O. # 3376  
Project Name 3005 Dundas St. W., Oakville  
Site Location Shil  
Sampled By Carl Frantzky Jr

INVOICE INFORMATION

Company Name Wardrop  
Contact Name Kashi F Khan  
Address 6725 Airport Rd, 6th Floor  
Mississauga, Ont. L4V 1V2  
Phone 905-673-3788  
Email Kashi.F.Khan@wardrop.com

REPORT INFORMATION

Company Name #6389 CPG-Frantz Inc  
Contact Name Rene Delvies  
Address 1E-250 Shields Ct  
Markham ON L3R 9W7  
Phone (905) 470-5570  
Email rdelvies@frantzenvironmental.com

REGULATORY CRITERIA

MISA Reg. 153/04  
 PAVCO Table 1  
 Table 2  
 Table 3  
 Table 6

SPECIAL INSTRUCTIONS

Small bubbles may be present in vials due to degassing.  
Small amounts of sediment in some bottles due to nature of water.

ANALYSIS REQUIRED

Regulated Drinking Water (Y/N)  
F1-F4 and BTEX  
Dissolved Lead by ICPLS  
Water Organic Compounds in Water

PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS

Regular (Standard) TAT: (will be expedited if Rush TAT is not specified)  
Standard TAT: = 5-7 Working days for most tests

Job Specific Rush TAT (if applies to entire submission)  
Date Required  
Time Required  
Rush Confirmation Number

Matrix	# of	Expected
GW, SW, Soil	Samples	Concentration
Soil	Lot	High
GW	5	0
	5	0
	9	0
	9	0
	5	0
	9	0
	9	0
	9	0

Comments  
Metals Field Filtered  
Metals Field Filtered

LABORATORY USE ONLY

Temperature (°C) on Receipt  
Date: (YYYY/MM/DD)  
Time: (HH:MM)

RECEIVED BY: (Signature/Print)  
Date: (YYYY/MM/DD)  
Time: (HH:MM)

RECEIVED BY: (Signature/Print)  
Date: (YYYY/MM/DD)  
Time: (HH:MM)

Sample Bar code Label	Sample Location Identification	Date Sampled	Time Sampled	Regulated Drinking Water (Y/N)	F1-F4 and BTEX	Dissolved Lead by ICPLS	Water Organic Compounds in Water	Rush Sample (Collect samples)	Matrix (Require Lab Filtering Y/N)	Temperature (°C) on Receipt	Date: (YYYY/MM/DD)	Time: (HH:MM)	RECEIVED BY: (Signature/Print)	Date: (YYYY/MM/DD)	Time: (HH:MM)	RECEIVED BY: (Signature/Print)	Date: (YYYY/MM/DD)	Time: (HH:MM)
BH1		Jan 8/08	11:00	N	X				N		08/10/09	14:41	Aluc	08/10/09	14:41		08/10/09	14:41
BH2			11:15	N	X				N									
BH3			11:30	N	X				N									
BH4			11:45	N	X				N									
BH5			12:00	N	X				N									
BH6			12:15	N	X				N									
FB			12:30	N	X				N									
Dup			N/A	N	X				N									
Trip Blank			Lab supplied	N	X				N									
Trip Spike				N	X				N									

\* MANDATORY SECTIONS IN GREY MUST BE FILLED OUT. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

DATA QUALITY REVIEW CHECKLIST

Consultant: Wardrop Engineering Inc.

Sampling Date: January 8, 2008

Location: 3005 Dundas Street, Oakville, Ontario

Laboratory: Maxxam Analytics Inc.

Consultant Project Number: 08134801-01

Maxxam Job Number: A802259

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery	X			- all lab QC have met acceptance criteria
Extraction Surrogate Recovery	X			
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery	X			

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration	X			- all field QC have met acceptance criteria
Trip Blank Concentration	X			
Field Duplicate RPD	X			

Has CoA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CoA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CoA (Yes/No)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted (if required) within 48 hours (Yes/No)?:

NA

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes/No)?:

No

Date Issued: NA


Date of Response: NA

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Fatema Tawawala

Data Reviewed by (Signature): 

Date: January 21, 2008

Your Project #: 0813480101  
Site: 3005 DUNDAS ST. W. OAKVILLE  
Your C.O.C. #: 00507484

**Attention: Jeff Muir/Rene De Vries**  
Wardrop Environmental Inc  
15-250 Shields Crt  
Markham, ON  
CANADA L3R 9W7

Report Date: 2008/04/11

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: A832845**  
**Received: 2008/04/04, 14:52**

Sample Matrix: Soil  
# Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Soil	2	2008/04/07	2008/04/08	CAM SOP-00315	CCME CWS
Petroleum Hydrocarbons F2-F4 in Soil	2	2008/04/07	2008/04/08	CAM SOP-00316	CCME CWS
Total Metals Analysis by ICP	2	2008/04/09	2008/04/09	CAM SOP-00408	EPA 6010
MOISTURE	2	N/A	2008/04/07	Ont SOP-0114	MOE HANDBOOK(1983)

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key *RSzurski* Renata Szurski  
11 Apr 2008 17:30:50 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

RENATA SZURSKI, Project Manager  
Email: Renata.Szurski@maxxamanalytics.com  
Phone# (905) 817-5700 Ext:5818

=====  
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 1

Page 1 of 7

Maxxam Job #: A832845  
Report Date: 2008/04/11

Wardrop Environmental Inc  
Client Project #: 0813480101  
Project name: 3005 DUNDAS ST. W. OAKVILLE  
Sampler Initials:

**O'REG 153 PETROLEUM HYDROCARBONS (SOIL)**

Maxxam ID		X92904	X92905		
Sampling Date		2008/04/03 05:00	2008/04/03 11:00		
COC Number		00507484	00507484		
	<b>Units</b>	<b>BH7-SS1</b>	<b>BH8-AS6</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Inorganics</b>					
Moisture	%	13	19	0.2	1488582
<b>BTEX &amp; F1 Hydrocarbons</b>					
Benzene	ug/g	ND	ND	0.02	1488872
Toluene	ug/g	ND	ND	0.02	1488872
Ethylbenzene	ug/g	ND	ND	0.02	1488872
o-Xylene	ug/g	ND	ND	0.02	1488872
p+m-Xylene	ug/g	ND	ND	0.04	1488872
Total Xylenes	ug/g	ND	ND	0.04	1488872
F1 (C6-C10)	ug/g	ND	ND	10	1488872
F1 (C6-C10) - BTEX	ug/g	ND	ND	10	1488872
<b>F2-F4 Hydrocarbons</b>					
F2 (C10-C16 Hydrocarbons)	ug/g	ND	ND	10	1488898
F3 (C16-C34 Hydrocarbons)	ug/g	ND	ND	10	1488898
F4 (C34-C50 Hydrocarbons)	ug/g	ND	ND	10	1488898
Reached Baseline at C50	ug/g	Yes	Yes		1488898
<b>Surrogate Recovery (%)</b>					
1,4-Difluorobenzene	%	103	104		1488872
4-Bromofluorobenzene	%	95	95		1488872
D10-Ethylbenzene	%	116	119		1488872
D4-1,2-Dichloroethane	%	98	99		1488872
o-Terphenyl	%	83	77		1488898
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: A832845  
Report Date: 2008/04/11

Wardrop Environmental Inc  
Client Project #: 0813480101  
Project name: 3005 DUNDAS ST. W. OAKVILLE  
Sampler Initials:

**ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)**

Maxxam ID		X92904	X92905		
Sampling Date		2008/04/03 05:00	2008/04/03 11:00		
COC Number		00507484	00507484		
	<b>Units</b>	<b>BH7-SS1</b>	<b>BH8-AS6</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Metals</b>					
Acid Extractable Lead (Pb)	ug/g	16	11	5	1489923

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch



Maxxam Job #: A832845  
Report Date: 2008/04/11

Wardrop Environmental Inc  
Client Project #: 0813480101  
Project name: 3005 DUNDAS ST. W. OAKVILLE  
Sampler Initials:

Package 1	-2.0°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

**GENERAL COMMENTS**

Note: F1BTEX - all soils were Methanol extracted on 2008/04/05

**Results relate only to the items tested.**

Wardrop Environmental Inc  
Attention: Jeff Muir/Rene De Vries  
Client Project #: 0813480101  
P.O. #:  
Project name: 3005 DUNDAS ST. W. OAKVILLE

Quality Assurance Report  
Maxxam Job Number: MA832845

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1488582 HVP	RPD	Moisture	2008/04/07	5.8		%	50
1488872 AGA	MATRIX SPIKE	1,4-Difluorobenzene	2008/04/08		101	%	60 - 140
		4-Bromofluorobenzene	2008/04/08		97	%	60 - 140
		D10-Ethylbenzene	2008/04/08		116	%	30 - 130
		D4-1,2-Dichloroethane	2008/04/08		102	%	60 - 140
		Benzene	2008/04/08		99	%	60 - 140
		Toluene	2008/04/08		98	%	60 - 140
		Ethylbenzene	2008/04/08		94	%	60 - 140
		o-Xylene	2008/04/08		100	%	60 - 140
		p+m-Xylene	2008/04/08		101	%	60 - 140
		F1 (C6-C10)	2008/04/08		84	%	60 - 140
	Spiked Blank	1,4-Difluorobenzene	2008/04/08		104	%	60 - 140
		4-Bromofluorobenzene	2008/04/08		95	%	60 - 140
		D10-Ethylbenzene	2008/04/08		109	%	30 - 130
		D4-1,2-Dichloroethane	2008/04/08		98	%	60 - 140
		Benzene	2008/04/08		93	%	60 - 140
		Toluene	2008/04/08		93	%	60 - 140
		Ethylbenzene	2008/04/08		92	%	60 - 140
		o-Xylene	2008/04/08		96	%	60 - 140
		p+m-Xylene	2008/04/08		98	%	60 - 140
		F1 (C6-C10)	2008/04/08		130	%	60 - 140
	Method Blank	1,4-Difluorobenzene	2008/04/08		103	%	60 - 140
		4-Bromofluorobenzene	2008/04/08		95	%	60 - 140
		D10-Ethylbenzene	2008/04/08		111	%	30 - 130
		D4-1,2-Dichloroethane	2008/04/08		99	%	60 - 140
		Benzene	2008/04/08	ND, RDL=0.02		ug/g	
		Toluene	2008/04/08	ND, RDL=0.02		ug/g	
		Ethylbenzene	2008/04/08	ND, RDL=0.02		ug/g	
		o-Xylene	2008/04/08	ND, RDL=0.02		ug/g	
		p+m-Xylene	2008/04/08	ND, RDL=0.04		ug/g	
		Total Xylenes	2008/04/08	ND, RDL=0.04		ug/g	
		F1 (C6-C10)	2008/04/08	ND, RDL=10		ug/g	
		F1 (C6-C10) - BTEX	2008/04/08	ND, RDL=10		ug/g	
	RPD	Benzene	2008/04/08	NC		%	50
		Toluene	2008/04/08	NC		%	50
		Ethylbenzene	2008/04/08	NC		%	50
		o-Xylene	2008/04/08	NC		%	50
		p+m-Xylene	2008/04/08	NC		%	50
		Total Xylenes	2008/04/08	NC		%	50
		F1 (C6-C10)	2008/04/08	NC		%	50
		F1 (C6-C10) - BTEX	2008/04/08	NC		%	50
1488898 NCI	MATRIX SPIKE	o-Terphenyl	2008/04/08		91	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2008/04/08		92	%	60 - 130
		F3 (C16-C34 Hydrocarbons)	2008/04/08		92	%	60 - 130
		F4 (C34-C50 Hydrocarbons)	2008/04/08		92	%	60 - 130
	Spiked Blank	o-Terphenyl	2008/04/08		92	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2008/04/08		88	%	60 - 130
		F3 (C16-C34 Hydrocarbons)	2008/04/08		88	%	60 - 130
		F4 (C34-C50 Hydrocarbons)	2008/04/08		88	%	60 - 130
	Method Blank	o-Terphenyl	2008/04/08		93	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2008/04/08	ND, RDL=10		ug/g	
		F3 (C16-C34 Hydrocarbons)	2008/04/08	ND, RDL=10		ug/g	
		F4 (C34-C50 Hydrocarbons)	2008/04/08	ND, RDL=10		ug/g	
	RPD	F2 (C10-C16 Hydrocarbons)	2008/04/08	NC		%	50
		F3 (C16-C34 Hydrocarbons)	2008/04/08	NC		%	50

Wardrop Environmental Inc  
Attention: Jeff Muir/Rene De Vries  
Client Project #: 0813480101  
P.O. #:  
Project name: 3005 DUNDAS ST. W. OAKVILLE

Quality Assurance Report (Continued)

Maxxam Job Number: MA832845

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1488898 NCI	RPD	F4 (C34-C50 Hydrocarbons)	2008/04/08	NC		%	50
1489923 KCO	MATRIX SPIKE	Acid Extractable Lead (Pb)	2008/04/09		79	%	75 - 125
	QC STANDARD	Acid Extractable Lead (Pb)	2008/04/09		96	%	75 - 125
	Method Blank	Acid Extractable Lead (Pb)	2008/04/09	ND, RDL=5		ug/g	
	RPD	Acid Extractable Lead (Pb)	2008/04/09	NC		%	35

ND = Not detected  
 NC = Non-calculable  
 RPD = Relative Percent Difference  
 QC Standard = Quality Control Standard  
 SPIKE = Fortified sample

Validation Signature Page

Maxxam Job #: A832845

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

*Suzana Popovic*

\_\_\_\_\_  
SUZANA POPOVIC, Supervisor, Hydrocarbons

*Troy Carriere*

\_\_\_\_\_  
TROY CARRIERE, B.Sc., C.Chem, Scientific Specialist



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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

**INVOICE INFORMATION**

Company Name: Maxxam  
 Contact Name: Kashif Khan  
 Address: 6725 Airport Rd., 6th Floor  
Mississauga, ON L4V 1V2  
 Phone: 905-878-3788 Fax: 905-873-8007  
 Email: Kashif.Khan@maxxam.com

**REPORT INFORMATION (if differs from invoice)**

Company Name: Maxxam  
 Contact Name: René de Vries  
 Address: 250 Shields Ct., Unit 15  
Markham, ON L3R 9W7  
 Phone: 905-470-6570 Fax: 905-470-0958  
 Email: rene.devries@maxxam.com

**PROJECT INFORMATION**

Qualification #: As per Shell Contract  
 PO #: N/A  
 Project #: 0813480101  
 Project Name: Shell  
 Location: 300 Sandus St., Oakville  
 Sampled By: K. Ouellet/Jan J. Marc

**MAXXAM JOB NUMBER**

CHAIN OF CUSTODY #  
DO 507484

**REGULATORY CRITERIA**

For regulated drinking water samples - please use the Drinking Water Chain of Custody Form.

MISA  Sewer Use  Other  
 PWCO  Table 1  Sanitary  specify  
 Reg. 558  Table 2  Storm  Region: \_\_\_\_\_  
 Reg. 153  Table 3  Report Criteria on C of A?

**TURNAROUND TIME (TAT) REQUIRED**

PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS.

Regular (Standard) TAT:  
 5 to 7 Working Days  
 Rush TAT: Rush Confirmation #:  
 1 day  2 days  3 days (call Lab for it)

DATE Required: \_\_\_\_\_  
 TIME Required: \_\_\_\_\_

**COMMENTS / TAT COMMENTS**

3 void spaces may be present due to soil type  
 " "  
 " "

Sample Identification	Date Sampled	Time Sampled (24 hr S.A. only)	Time Matrix	FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM.	
				Temperature (<10°C)	Time
BH7-SS1	08/04/03	5:00	Soil		
BH8-AS6	08/04/03	11:00	Soil		

Metals Field Filtered? (Y / N)

Regulated Drinking Water? (Y / N)

Time	Date	Signature/Print
9:00	08/04/04	<u>René de Vries</u>
14:52	08/07/07	<u>K. Ouellet</u>

**LABORATORY USE ONLY**

Temperature (C) on Receipt: -21-27  
 Condition of Sample on Receipt:  OK  SF

**MANDATORY SECTIONS IN GREY MUST BE FILLED OUT. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.**

905-817-5700

DATA QUALITY REVIEW CHECKLIST

Consultant: Wardrop Engineering Inc. Sampling Date: April 3, 2008

Location: 3005 Dundas Street, Oakville, Ontario Laboratory: Maxxam Analytics Inc.

Consultant Project Number: 08134801-01 Maxxam Job Number: A832845

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery	X			- all lab QC have met acceptance criteria
Extraction Surrogate Recovery	X			
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery	X			

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	
Trip Blank Concentration			X	
Field Duplicate RPD			X	

Has CoA been signed off (Yes/No)? Yes

Has lab warranted all tests were in statistical control in CoA (Yes/No)? Yes

Has lab warranted all tests were analyzed following SOP's in CoA (Yes/No)? Yes

Were all samples analyzed within hold times (Yes/No)? Yes

All volatiles samples methanol extracted (if required) within 48 hours (Yes/No)? NA

Is Chain of Custody completed and signed (Yes/No)? Yes

Were sample temperatures acceptable when they reached lab (Yes/No)? Yes

Was a Data Quality Waiver (DQW) issued (Yes/No)? No

Date Issued: NA Date of Response: NA

Is data considered to be reliable (Yes/No)? Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Fatema Tavawala Date Reviewed by (Signature): 

Date: April 24, 2008

Your Project #: 08134801 SHELL-OAKVILLE  
Site: 3005 DUNDAS STREET W  
Your C.O.C. #: 00453712

**Attention: Jeff Muir/Rene De Vries**  
Wardrop Environmental Inc  
15-250 Shields Crt  
Markham, ON  
CANADA L3R 9W7

**Report Date: 2008/04/14**

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: A834181**  
**Received: 2008/04/08, 13:48**

Sample Matrix: Water  
# Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	2	N/A	2008/04/11	CAM SOP-00315	CCME CWS
Petroleum Hydrocarbons F2-F4 in Water	2	2008/04/10	2008/04/10	CAM SOP-00316	CCME Hydrocarbons
Dissolved Metals by ICPMS	2	N/A	2008/04/11	CAM SOP-00447	EPA 6020
Volatile Organic Compounds in Water	2	N/A	2008/04/10	CAM SOP-00226	EPA 8260 modified

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key  Renata Szurski  
15 Apr 2008 17:12:10 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

RENATA SZURSKI, Project Manager  
Email: Renata.Szurski@maxxamanalytics.com  
Phone# (905) 817-5700 Ext:5818

=====  
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 1

Page 1 of 8

Maxxam Job #: A834181  
Report Date: 2008/04/14

Wardrop Environmental Inc  
Client Project #: 08134801 SHELL-OAKVILLE  
Project name: 3005 DUNDAS STREET W  
Sampler Initials:

**OREG 153 PETROLEUM HYDROCARBONS (WATER)**

Maxxam ID		X98955	X98956		
Sampling Date		2008/04/07 15:30	2008/04/07 16:00		
COC Number		00453712	00453712		
	<b>Units</b>	<b>BH 7</b>	<b>BH 8</b>	<b>RDL</b>	<b>QC Batch</b>

<b>BTEX &amp; F1 Hydrocarbons</b>					
F1 (C6-C10)	ug/L	ND	ND	100	1492407
F1 (C6-C10) - BTEX	ug/L	ND	ND	100	1492407
<b>F2-F4 Hydrocarbons</b>					
F2 (C10-C16 Hydrocarbons)	ug/L	ND	ND	100	1490901
F3 (C16-C34 Hydrocarbons)	ug/L	ND	ND	100	1490901
F4 (C34-C50 Hydrocarbons)	ug/L	ND	ND	100	1490901
Reached Baseline at C50	ug/L	Yes	Yes		1490901
<b>Surrogate Recovery (%)</b>					
1,4-Difluorobenzene	%	105	109		1492407
4-Bromofluorobenzene	%	97	96		1492407
D10-Ethylbenzene	%	104	110		1492407
D4-1,2-Dichloroethane	%	96	89		1492407
o-Terphenyl	%	93	93		1490901
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch					



Maxxam Job #: A834181  
Report Date: 2008/04/14

Wardrop Environmental Inc  
Client Project #: 08134801 SHELL-OAKVILLE  
Project name: 3005 DUNDAS STREET W  
Sampler Initials:

**ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)**

Maxxam ID		X98955	X98956		
Sampling Date		2008/04/07 15:30	2008/04/07 16:00		
COC Number		00453712	00453712		
	<b>Units</b>	<b>BH 7</b>	<b>BH 8</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Metals</b>					
Dissolved Lead (Pb)	ug/L	ND	ND	0.5	1491403

ND = Not detected  
RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A834181  
Report Date: 2008/04/14

Wardrop Environmental Inc  
Client Project #: 08134801 SHELL-OAKVILLE  
Project name: 3005 DUNDAS STREET W  
Sampler Initials:

**VOLATILE ORGANICS BY GC/MS (WATER)**

Maxxam ID		X98955		X98956		
Sampling Date		2008/04/07 15:30		2008/04/07 16:00		
COC Number		00453712		00453712		
	<b>Units</b>	<b>BH 7</b>	<b>RDL</b>	<b>BH 8</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Volatile Organics</b>						
Benzene	ug/L	46	0.5	ND	0.1	1490892
Ethylbenzene	ug/L	2.0	0.5	ND	0.1	1490892
Methyl t-butyl ether (MTBE)	ug/L	7	1	0.7	0.2	1490892
Toluene	ug/L	ND	1	ND	0.2	1490892
p+m-Xylene	ug/L	ND	0.5	0.1	0.1	1490892
o-Xylene	ug/L	ND	0.5	ND	0.1	1490892
Xylene (Total)	ug/L	ND	0.5	0.1	0.1	1490892
<b>Surrogate Recovery (%)</b>						
4-Bromofluorobenzene	%	87		89		1490892
D4-1,2-Dichloroethane	%	106		112		1490892
D8-Toluene	%	96		98		1490892

ND = Not detected  
RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A834181  
Report Date: 2008/04/14

Wardrop Environmental Inc  
Client Project #: 08134801 SHELL-OAKVILLE  
Project name: 3005 DUNDAS STREET W  
Sampler Initials:

Package 1	1.7°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

**GENERAL COMMENTS**

F1BTEX analysis:

The BTEX results used for the F1-BTEX calculation were obtained from Headspace-GC analysis.

Sample X98955-01: VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly.

**Results relate only to the items tested.**

Wardrop Environmental Inc  
Attention: Jeff Muir/Rene De Vries  
Client Project #: 08134801 SHELL-OAKVILLE  
P.O. #:  
Project name: 3005 DUNDAS STREET W

Quality Assurance Report  
Maxxam Job Number: MA834181

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
1490892 MAL	MATRIX SPIKE	4-Bromofluorobenzene	2008/04/10		96	%	70 - 130		
		D4-1,2-Dichloroethane	2008/04/10		116	%	70 - 130		
		D8-Toluene	2008/04/10		98	%	70 - 130		
		Benzene	2008/04/10		98	%	70 - 130		
		Ethylbenzene	2008/04/10		103	%	70 - 130		
		Methyl t-butyl ether (MTBE)	2008/04/10		112	%	70 - 130		
		Toluene	2008/04/10		102	%	70 - 130		
		p+m-Xylene	2008/04/10		106	%	70 - 130		
		o-Xylene	2008/04/10		112	%	70 - 130		
		Spiked Blank	4-Bromofluorobenzene	2008/04/10		97	%	70 - 130	
			D4-1,2-Dichloroethane	2008/04/10		117	%	70 - 130	
			D8-Toluene	2008/04/10		100	%	70 - 130	
	Benzene		2008/04/10		95	%	70 - 130		
	Ethylbenzene		2008/04/10		97	%	70 - 130		
	Methyl t-butyl ether (MTBE)		2008/04/10		107	%	70 - 130		
	Toluene		2008/04/10		96	%	70 - 130		
	p+m-Xylene		2008/04/10		100	%	70 - 130		
	o-Xylene		2008/04/10		103	%	70 - 130		
	Method Blank		4-Bromofluorobenzene	2008/04/10		90	%	70 - 130	
			D4-1,2-Dichloroethane	2008/04/10		117	%	70 - 130	
			D8-Toluene	2008/04/10		99	%	70 - 130	
		Benzene	2008/04/10	ND, RDL=0.1		ug/L			
		Ethylbenzene	2008/04/10	ND, RDL=0.1		ug/L			
		Methyl t-butyl ether (MTBE)	2008/04/10	ND, RDL=0.2		ug/L			
		Toluene	2008/04/10	ND, RDL=0.2		ug/L			
		p+m-Xylene	2008/04/10	ND, RDL=0.1		ug/L			
		o-Xylene	2008/04/10	ND, RDL=0.1		ug/L			
		Xylene (Total)	2008/04/10	ND, RDL=0.1		ug/L			
		RPD	Benzene	2008/04/10	NC		%	40	
			Ethylbenzene	2008/04/10	NC		%	40	
	Toluene		2008/04/10	NC		%	40		
	p+m-Xylene		2008/04/10	NC		%	40		
	o-Xylene		2008/04/10	NC		%	40		
	Xylene (Total)		2008/04/10	NC		%	40		
	1490901 JXI		MATRIX SPIKE	o-Terphenyl	2008/04/10		99	%	30 - 130
				F2 (C10-C16 Hydrocarbons)	2008/04/10		94	%	60 - 130
				F3 (C16-C34 Hydrocarbons)	2008/04/10		94	%	60 - 130
				F4 (C34-C50 Hydrocarbons)	2008/04/10		94	%	60 - 130
			Spiked Blank	o-Terphenyl	2008/04/10		96	%	30 - 130
				F2 (C10-C16 Hydrocarbons)	2008/04/10		94	%	60 - 130
F3 (C16-C34 Hydrocarbons)		2008/04/10			94	%	60 - 130		
F4 (C34-C50 Hydrocarbons)		2008/04/10			94	%	60 - 130		
Method Blank		o-Terphenyl	2008/04/10		78	%	30 - 130		
		F2 (C10-C16 Hydrocarbons)	2008/04/10	ND, RDL=100		ug/L			
		F3 (C16-C34 Hydrocarbons)	2008/04/10	ND, RDL=100		ug/L			
		F4 (C34-C50 Hydrocarbons)	2008/04/10	ND, RDL=100		ug/L			
RPD	F2 (C10-C16 Hydrocarbons)	2008/04/10	NC		%	50			
	F3 (C16-C34 Hydrocarbons)	2008/04/10	NC		%	50			
	F4 (C34-C50 Hydrocarbons)	2008/04/10	NC		%	50			
	1491403 MIL	MATRIX SPIKE	Dissolved Lead (Pb)	2008/04/11		102	%	80 - 120	
Spiked Blank		Dissolved Lead (Pb)	2008/04/11		98	%	85 - 115		
Method Blank		Dissolved Lead (Pb)	2008/04/11	ND, RDL=0.5		ug/L			
RPD		Dissolved Lead (Pb)	2008/04/11	NC		%	25		
1492407 NBA	MATRIX SPIKE	1,4-Difluorobenzene	2008/04/11		109	%	70 - 130		
		4-Bromofluorobenzene	2008/04/11		96	%	70 - 130		

Wardrop Environmental Inc  
Attention: Jeff Muir/Rene De Vries  
Client Project #: 08134801 SHELL-OAKVILLE  
P.O. #:  
Project name: 3005 DUNDAS STREET W

Quality Assurance Report (Continued)

Maxxam Job Number: MA834181

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1492407 NBA	MATRIX SPIKE	D10-Ethylbenzene	2008/04/11		109	%	70 - 130
		D4-1,2-Dichloroethane	2008/04/11		92	%	70 - 130
		F1 (C6-C10)	2008/04/11		95	%	70 - 130
	Spiked Blank	1,4-Difluorobenzene	2008/04/11		109	%	70 - 130
		4-Bromofluorobenzene	2008/04/11		97	%	70 - 130
		D10-Ethylbenzene	2008/04/11		110	%	70 - 130
		D4-1,2-Dichloroethane	2008/04/11		92	%	70 - 130
		F1 (C6-C10)	2008/04/11		99	%	70 - 130
	Method Blank	1,4-Difluorobenzene	2008/04/11		109	%	70 - 130
		4-Bromofluorobenzene	2008/04/11		97	%	70 - 130
		D10-Ethylbenzene	2008/04/11		107	%	70 - 130
		D4-1,2-Dichloroethane	2008/04/11		92	%	70 - 130
		F1 (C6-C10)	2008/04/11	ND, RDL=100		ug/L	
		F1 (C6-C10) - BTEX	2008/04/11	ND, RDL=100		ug/L	
	RPD	F1 (C6-C10)	2008/04/11	NC		%	40
		F1 (C6-C10) - BTEX	2008/04/11	NC		%	40

ND = Not detected  
NC = Non-calculable  
RPD = Relative Percent Difference  
SPIKE = Fortified sample

**Validation Signature Page**

**Maxxam Job #: A834181**

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

*Cristina Nervo*

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CHRISTINA NERVO, Scientific Services

*M. Riskallah*

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MEDHAT RISKALLAH, Manager, Hydrocarbon Department

*M. Salib*

---

MAMDOUH SALIB, Analyst, Hydrocarbons

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

**CHAIN OF CUSTODY RECORD**

Page 1 of 1

<b>INVOICE INFORMATION</b>		<b>REPORT INFORMATION (if differs from invoice)</b>		<b>PROJECT INFORMATION</b>		<b>MAXXAM JOB NUMBER</b>	
Company Name: <u>NARDROP</u>	Company Name: <u>NARDROP</u>	Company Name: <u>NARDROP</u>	Company Name: <u>NARDROP</u>	Qualification #: <u>As per shell contract</u>	PO #: <u>NA</u>	CHAIN OF CUSTODY #	
Contact Name: <u>Kashif Khan</u>	Contact Name: <u>René de Vries</u>	Contact Name: <u>René de Vries</u>	Contact Name: <u>René de Vries</u>	Project #: <u>08134801</u>	Project Name: <u>Shell - Oakville</u>		
Address: <u>6725 Airport Road, 6th Floor</u>	Address: <u>250 Shields Court #15</u>	Address: <u>Markham, ON L3R 9W7</u>	Address: <u>Markham, ON L3R 9W7</u>	Location: <u>3005 Dundas Street W</u>	Location: <u>Oakville, ON</u>		<b>00453712</b>
Phone: <u>905-673-3788</u> Fax: <u>905-673-8007</u>	Phone: <u>905-476-6570</u> Fax: <u>905-470-0958</u>	Phone: <u>905-476-6570</u> Fax: <u>905-470-0958</u>	Phone: <u>905-476-6570</u> Fax: <u>905-470-0958</u>	Sampled By: <u>H. Saucedo</u>	Sampled By: <u>H. Saucedo</u>		
Email: <u>Kashif.khan@nardrop.com</u>	Email: <u>rene.de.vries@nardrop.com</u>	Email: <u>rene.de.vries@nardrop.com</u>	Email: <u>rene.de.vries@nardrop.com</u>				

**REGULATORY CRITERIA**  
Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form.

MISA  Reg. 153  Sewer Use  Other  
 PW00  Table 1  Sanitary  Storm  
 Reg. 558  Table 2  Storm  Regional  
 Report Criteria on C of A2

**ANALYSIS REQUESTED (Please be specific)**

GREX-F1	X	GREX-F1	X
F2-F4	X	F2-F4	X
LEAD	X	LEAD	X
MTGE	X	MTGE	X

Regulated Drinking Water?  Metals Field Filtered?

**SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM.**

Sample Identification	Date Sampled	Time Sampled	Matrix
1 BHF	08/04/08	15:30	GM
2 BHS	↓	16:00	↓
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

8-Apr-08 13:48  
RENATA SZURSKI  
A834181  
CCO ENV-895

**TURNAROUND TIME (TAT) REQUIRED**  
PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS.

Regular (Standard) TAT:  5 to 7 Working Days  
Rush TAT: Rush Confirmation #: (call Lab for #)  
 1 day  2 days  3 days

DATE Required: \_\_\_\_\_ TIME Required: \_\_\_\_\_

Please note that TAT for certain tests such as BOD and Dewaterables are + 5 days - contact your Project Manager for details.

# of Cont. 9 COMMENTS / TAT COMMENTS  
\* Small air bubbles may be present due to degassing  
\* Small amount of sediment may be present due to water type.

LABORATORY USE ONLY  
Temperature (°C) on Receipt 12/10C Condition of Sample on Receipt  OK  SIF  
Date 08/04/08 Time 9:00am  
Date 08/04/08 Time 13:58

RECEIVED BY (Signature/Print) [Signature]  
RECEIVED BY (Signature/Print) [Signature]

DATA QUALITY REVIEW CHECKLIST

Consultant: Wardrop Engineering Inc. Sampling Date: April 7, 2008  
 Location: 3005 Dundas Street, Oakville, Ontario Laboratory: Maxxam Analytics Inc.  
 Consultant Project Number: 08134801-01 Maxxam Job Number: A834181

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery	X			- all lab QC have met acceptance criteria
Extraction Surrogate Recovery	X			
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery	X			

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	
Trip Blank Concentration			X	
Field Duplicate RPD			X	

Has CoA been signed off (Yes/No)? Yes  
 Has lab warranted all tests were in statistical control in CoA (Yes/No)? Yes  
 Has lab warranted all tests were analyzed following SOP's in CoA (Yes/No)? Yes  
 Were all samples analyzed within hold times (Yes/No)? Yes  
 All volatiles samples methanol extracted (if required) within 48 hours (Yes/No)? NA  
 Is Chain of Custody completed and signed (Yes/No)? Yes  
 Were sample temperatures acceptable when they reached lab (Yes/No)? Yes

Was a Data Quality Waiver (DQW) issued (Yes/No)? No  
 Date Issued: NA Date of Response: NA

Is data considered to be reliable (Yes/No)? Yes  
 If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Fatema Tavawala Date: April 25, 2008  
 Data Reviewed by (Signature): 



Your Project #: 08134801 SHELL-OAKVILLE  
Site: 3005 DUNDAS STREET W  
Your C.O.C. #: 444225

**Attention: Jeff Muir/Rene De Vries**  
Wardrop Environmental Inc  
15-250 Shields Crt  
Markham, ON  
CANADA L3R 9W7

**Report Date: 2008/05/08**

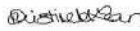
**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: A834233**  
**Received: 2008/04/08, 14:19**

Sample Matrix: Water  
# Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	3	N/A	2008/04/09	CAM SOP-00315	CCME CWS
Petroleum Hydrocarbons F2-F4 in Water	3	2008/04/09	2008/04/10	CAM SOP-00316	CCME Hydrocarbons
Dissolved Metals by ICPMS	2	N/A	2008/04/10	CAM SOP-00447	EPA 6020
Dissolved Metals by ICPMS	1	N/A	2008/04/11	CAM SOP-00447	EPA 6020
Volatile Organic Compounds in Water	2	N/A	2008/04/10	CAM SOP-00226	EPA 8260 modified

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key  Christine McLean  
08 May 2008 16:22:05 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

RENATA SZURSKI, Project Manager  
Email: Renata.Szurski@maxxamanalytics.com  
Phone# (905) 817-5700 Ext:5818

=====  
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 1

Page 1 of 8

Maxxam Job #: A834233  
Report Date: 2008/05/08

Wardrop Environmental Inc  
Client Project #: 08134801 SHELL-OAKVILLE  
Project name: 3005 DUNDAS STREET W  
Sampler Initials:

**OREG 153 PETROLEUM HYDROCARBONS (WATER)**

Maxxam ID		X99117	X99118		X99119		
Sampling Date		2008/04/07	2008/03/13		2008/04/01		
COC Number		444225	444225		444225		
	Units	FB	TRIP BLANK	RDL	TRIP SPIKE	RDL	QC Batch

<b>BTEX &amp; F1 Hydrocarbons</b>							
Benzene	ug/L			N/A	75	N/A	1490678
Toluene	ug/L			N/A	75	N/A	1490678
Ethylbenzene	ug/L			N/A	76	N/A	1490678
o-Xylene	ug/L			N/A	81	N/A	1490678
p+m-Xylene	ug/L			N/A	87	N/A	1490678
F1 (C6-C10)	ug/L	ND	ND	100		100	1490678
F1 (C6-C10) - BTEX	ug/L	ND	ND	100		100	1490678
<b>F2-F4 Hydrocarbons</b>							
F2 (C10-C16 Hydrocarbons)	ug/L	ND	ND	100	97	N/A	1490679
F3 (C16-C34 Hydrocarbons)	ug/L	ND	ND	100	97	N/A	1490679
F4 (C34-C50 Hydrocarbons)	ug/L	ND	ND	100	97	N/A	1490679
Reached Baseline at C50	ug/L	Yes	Yes		Yes		1490679
<b>Surrogate Recovery (%)</b>							
1,4-Difluorobenzene	%	92	93		86		1490678
4-Bromofluorobenzene	%	95	93		89		1490678
D10-Ethylbenzene	%	89	90		88		1490678
D4-1,2-Dichloroethane	%	97	100		95		1490678
o-Terphenyl	%	115	111		111		1490679

ND = Not detected  
RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A834233  
Report Date: 2008/05/08

Wardrop Environmental Inc  
Client Project #: 08134801 SHELL-OAKVILLE  
Project name: 3005 DUNDAS STREET W  
Sampler Initials:

**ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)**

Maxxam ID		X99117		X99118	X99119		
Sampling Date		2008/04/07		2008/03/31	2008/03/19		
COC Number		444225		444225	444225		
	<b>Units</b>	<b>FB</b>	<b>QC Batch</b>	<b>TRIP BLANK</b>	<b>TRIP SPIKE</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Metals</b>							
Dissolved Lead (Pb)	ug/L	ND	1491403	ND	98	0.5	1491101

ND = Not detected  
RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A834233  
Report Date: 2008/05/08

Wardrop Environmental Inc  
Client Project #: 08134801 SHELL-OAKVILLE  
Project name: 3005 DUNDAS STREET W  
Sampler Initials:

**VOLATILE ORGANICS BY GC/MS (WATER)**

Maxxam ID		X99117	X99118		
Sampling Date		2008/04/07	2008/04/02		
COC Number		444225	444225		
	Units	FB	TRIP BLANK	RDL	QC Batch

Volatile Organics					
Benzene	ug/L	ND	ND	0.1	1490892
Ethylbenzene	ug/L	ND	ND	0.1	1490892
Methyl t-butyl ether (MTBE)	ug/L	ND	ND	0.2	1490892
Toluene	ug/L	ND	ND	0.2	1490892
p+m-Xylene	ug/L	ND	ND	0.1	1490892
o-Xylene	ug/L	ND	ND	0.1	1490892
Xylene (Total)	ug/L	ND	ND	0.1	1490892
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	91	88		1490892
D4-1,2-Dichloroethane	%	115	112		1490892
D8-Toluene	%	97	96		1490892

ND = Not detected  
RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A834233  
Report Date: 2008/05/08

Wardrop Environmental Inc  
Client Project #: 08134801 SHELL-OAKVILLE  
Project name: 3005 DUNDAS STREET W  
Sampler Initials:

Package 1	1.3°C
-----------	-------

Each temperature is the average of up to three cooler temperatures taken at receipt

**GENERAL COMMENTS**

Sample X99117-01: F1/BTEX Analysis: The BTEX results used for the F1-BTEX calculation were obtained from Headspace-GC analysis.

Sample X99118-01: F1/BTEX Analysis: The BTEX results used for the F1-BTEX calculation were obtained from Headspace-GC analysis.

Sample X99119-01: Trip spike results are expressed as percentage recovery of the spiked amounts.

**Results relate only to the items tested.**

Wardrop Environmental Inc  
Attention: Jeff Muir/Rene De Vries  
Client Project #: 08134801 SHELL-OAKVILLE  
P.O. #:  
Project name: 3005 DUNDAS STREET W

Quality Assurance Report  
Maxxam Job Number: MA834233

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1490678 DTI	MATRIX SPIKE	1,4-Difluorobenzene	2008/04/09		94	%	70 - 130	
		4-Bromofluorobenzene	2008/04/09		96	%	70 - 130	
		D10-Ethylbenzene	2008/04/09		86	%	70 - 130	
		D4-1,2-Dichloroethane	2008/04/09		99	%	70 - 130	
		Benzene	2008/04/09		79	%	70 - 130	
		Toluene	2008/04/09		89	%	70 - 130	
		Ethylbenzene	2008/04/09		89	%	70 - 130	
		o-Xylene	2008/04/09		92	%	70 - 130	
		p+m-Xylene	2008/04/09		103	%	70 - 130	
		F1 (C6-C10)	2008/04/09		97	%	70 - 130	
		Spiked Blank	1,4-Difluorobenzene	2008/04/09		97	%	70 - 130
			4-Bromofluorobenzene	2008/04/09		100	%	70 - 130
			D10-Ethylbenzene	2008/04/09		92	%	70 - 130
			D4-1,2-Dichloroethane	2008/04/09		98	%	70 - 130
			Benzene	2008/04/09		81	%	70 - 130
	Toluene		2008/04/09		87	%	70 - 130	
	Ethylbenzene		2008/04/09		88	%	70 - 130	
	o-Xylene		2008/04/09		91	%	70 - 130	
	p+m-Xylene		2008/04/09		100	%	70 - 130	
	F1 (C6-C10)		2008/04/09		112	%	70 - 130	
	Method Blank		1,4-Difluorobenzene	2008/04/09		96	%	70 - 130
			4-Bromofluorobenzene	2008/04/09		93	%	70 - 130
			D10-Ethylbenzene	2008/04/09		91	%	70 - 130
			D4-1,2-Dichloroethane	2008/04/09		95	%	70 - 130
			Benzene	2008/04/09	ND, RDL=0.2		ug/L	
		Toluene	2008/04/09	ND, RDL=0.2		ug/L		
		Ethylbenzene	2008/04/09	ND, RDL=0.2		ug/L		
		o-Xylene	2008/04/09	ND, RDL=0.2		ug/L		
		p+m-Xylene	2008/04/09	ND, RDL=0.4		ug/L		
		F1 (C6-C10)	2008/04/09	ND, RDL=100		ug/L		
		F1 (C6-C10) - BTEX	2008/04/09	ND, RDL=100		ug/L		
		RPD	Benzene	2008/04/09	NC		%	40
			Toluene	2008/04/09	NC		%	40
Ethylbenzene			2008/04/09	NC		%	40	
o-Xylene			2008/04/09	NC		%	40	
p+m-Xylene	2008/04/09		NC		%	40		
F1 (C6-C10)	2008/04/09		NC		%	40		
F1 (C6-C10) - BTEX	2008/04/09		NC		%	40		
1490679 DPO	MATRIX SPIKE		o-Terphenyl	2008/04/10		128	%	30 - 130
			F2 (C10-C16 Hydrocarbons)	2008/04/10		105	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2008/04/10		105	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2008/04/10		105	%	60 - 130
	Spiked Blank		o-Terphenyl	2008/04/10		123	%	30 - 130
			F2 (C10-C16 Hydrocarbons)	2008/04/10		104	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2008/04/10		104	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2008/04/10		104	%	60 - 130
	Method Blank	o-Terphenyl	2008/04/10		115	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2008/04/10	ND, RDL=100		ug/L		
		F3 (C16-C34 Hydrocarbons)	2008/04/10	ND, RDL=100		ug/L		
		F4 (C34-C50 Hydrocarbons)	2008/04/10	ND, RDL=100		ug/L		
	RPD	F2 (C10-C16 Hydrocarbons)	2008/04/10	12.1		%	50	
		F3 (C16-C34 Hydrocarbons)	2008/04/10	4.9		%	50	
		F4 (C34-C50 Hydrocarbons)	2008/04/10	10.3		%	50	
1490892 MAL		MATRIX SPIKE	4-Bromofluorobenzene	2008/04/10		96	%	70 - 130
	D4-1,2-Dichloroethane		2008/04/10		116	%	70 - 130	

Wardrop Environmental Inc  
Attention: Jeff Muir/Rene De Vries  
Client Project #: 08134801 SHELL-OAKVILLE  
P.O. #:  
Project name: 3005 DUNDAS STREET W

Quality Assurance Report (Continued)

Maxxam Job Number: MA834233

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1490892 MAL	MATRIX SPIKE	D8-Toluene	2008/04/10		98	%	70 - 130
		Benzene	2008/04/10		98	%	70 - 130
		Ethylbenzene	2008/04/10		103	%	70 - 130
		Methyl t-butyl ether (MTBE)	2008/04/10		112	%	70 - 130
		Toluene	2008/04/10		102	%	70 - 130
		p+m-Xylene	2008/04/10		106	%	70 - 130
		o-Xylene	2008/04/10		112	%	70 - 130
	Spiked Blank	4-Bromofluorobenzene	2008/04/10		97	%	70 - 130
		D4-1,2-Dichloroethane	2008/04/10		117	%	70 - 130
		D8-Toluene	2008/04/10		100	%	70 - 130
		Benzene	2008/04/10		95	%	70 - 130
		Ethylbenzene	2008/04/10		97	%	70 - 130
		Methyl t-butyl ether (MTBE)	2008/04/10		107	%	70 - 130
		Toluene	2008/04/10		96	%	70 - 130
		p+m-Xylene	2008/04/10		100	%	70 - 130
		o-Xylene	2008/04/10		103	%	70 - 130
	Method Blank	4-Bromofluorobenzene	2008/04/10		90	%	70 - 130
		D4-1,2-Dichloroethane	2008/04/10		117	%	70 - 130
		D8-Toluene	2008/04/10		99	%	70 - 130
		Benzene	2008/04/10	ND, RDL=0.1		ug/L	
		Ethylbenzene	2008/04/10	ND, RDL=0.1		ug/L	
		Methyl t-butyl ether (MTBE)	2008/04/10	ND, RDL=0.2		ug/L	
		Toluene	2008/04/10	ND, RDL=0.2		ug/L	
		p+m-Xylene	2008/04/10	ND, RDL=0.1		ug/L	
		o-Xylene	2008/04/10	ND, RDL=0.1		ug/L	
		Xylene (Total)	2008/04/10	ND, RDL=0.1		ug/L	
	RPD	Benzene	2008/04/10	NC		%	40
		Ethylbenzene	2008/04/10	NC		%	40
		Toluene	2008/04/10	NC		%	40
		p+m-Xylene	2008/04/10	NC		%	40
		o-Xylene	2008/04/10	NC		%	40
		Xylene (Total)	2008/04/10	NC		%	40
1491101 MIL	MATRIX SPIKE	Dissolved Lead (Pb)	2008/04/10		105	%	80 - 120
	Spiked Blank	Dissolved Lead (Pb)	2008/04/10		99	%	85 - 115
	Method Blank	Dissolved Lead (Pb)	2008/04/10	ND, RDL=0.5		ug/L	
	RPD	Dissolved Lead (Pb)	2008/04/10	NC		%	25
1491403 MIL	MATRIX SPIKE	Dissolved Lead (Pb)	2008/04/11		102	%	80 - 120
	Spiked Blank	Dissolved Lead (Pb)	2008/04/11		98	%	85 - 115
	Method Blank	Dissolved Lead (Pb)	2008/04/11	ND, RDL=0.5		ug/L	
	RPD	Dissolved Lead (Pb)	2008/04/11	NC		%	25

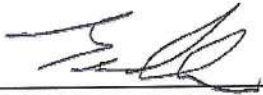
ND = Not detected  
NC = Non-calculable  
RPD = Relative Percent Difference  
SPIKE = Fortified sample

**Validation Signature Page**

**Maxxam Job #: A834233**

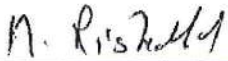
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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



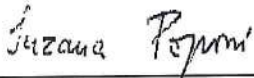
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BRAD NEWMAN, Scientific Specialist



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MEDHAT RISKALLAH, Manager, Hydrocarbon Department



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SUZANA POPOVIC, Supervisor, Hydrocarbons

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.





6740 Campobello Road, Mississauga, ON L5V 2L8  
 Phone: 905-817-5700 Fax: 905-817-5778 Toll Free: (800) 563-6266

# CHAIN OF CUSTODY RECORD

Page 1 of 1

**INVOICE INFORMATION**

Company Name: WARDROP  
 Contract Name: Kashif Khan  
 Address: 6725 Airport Road, 6th Floor  
Mississauga, ON L4V 1V2  
 Phone: 905-673-3788 Fax: 905-673-8007  
 Email: kashif.khan@wardrop.com

**REPORT INFORMATION (if differs from invoice)**

Company Name: WARDROP  
 Contact Name: René de Vries  
 Address: 250 Shields Court #15  
Markham, ON L3R 9W7  
 Phone: 905-470-6570 Fax: 905-476-0958  
 Email: rene.devries@wardrop.com

**PROJECT INFORMATION**

Question #: As Per Shell contract  
 P.C. #: N/A  
 Project #: 05131801  
 Project Name: Shell - Oakville  
 Location: 3005 Dundas Street W  
Oakville, ON  
 Sampled By: H. J. J. J.

MAXXAM JOB NUMBER  
 CHAIN OF CUSTODY #  
00444225

**REGULATORY CRITERIA**

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form.

MISA  Reg. 153  Sewer Use  Other  
 PWCO  Table 1  Sanitary  specify  
 Reg. 538  Table 2  Storm  Region:  
 Reg. 538  Table 3

Report Criteria on C of A?

**ANALYSIS REQUESTED (Please be specific)**

Regulated Drinking Water?  (N)

Metals Field Filtered?  (Y)

BiOx-FI  
 LEAD  
 TRIS

**TURNAROUND TIME (TAT) REQUIRED**

PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS.

Regular (Standard) TAT:  
 5 to 7 Working Days

Rush TAT: Rush Confirmation #:  
 1 day  2 days  3 days (call Lab for it)

DATE Req: 8-Apr-08 14:19

TIME Req: RENATA SZURSKI

# of Cont.: 8

# of Cont.: 8

# of Cont.: 5

Barcode: A834233  
KS  
ENV-702

**SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING-UNTIL DELIVERY TO MAXXAM.**

Sample Identification	Date Sampled	Time Sampled	Matrix Sampled (DA, SW, soil, etc.)
1 FB	08/04/08	17:15	SN
2 TRIP BLANK	*	*	*
3 TRIP SPIKE	*	*	*
4			
5			
6			
7			
8			
9			
10			
11			
12			

**RECEIVED BY (Signature/Print)**

9 J. J.

**RECEIVED BY (Signature/Print)**

ZOFIA ZEMHA

Date: 08/04/08

Date: 08/04/08

Time: 9:00am

Time: 14:19

Temperature (C) at Receipt: 11/20C

Condition of Sample on Receipt:  OK  SIF

\*MANDATORY SECTIONS IN GREY MUST BE FILLED OUT. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

ENV000-001/06/06

White: Maxxam Yellow: Mail Pink: Client

DATA QUALITY REVIEW CHECKLIST

Consultant: Wardrop Engineering Inc. Sampling Date: April 7, 2008

Location: 3005 Dundas Street, Oakville, Ontario Laboratory: Maxxam Analytics Inc.

Consultant Project Number: 08134801-01 Maxxam Job Number: A834233

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery	X			- all lab QC have met acceptance criteria
Extraction Surrogate Recovery	X			
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery	X			

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration	X			- all field QC have met acceptance criteria
Trip Blank Concentration	X			
Field Duplicate RPD			X	

Has CoA been signed off (Yes/No)?: \_\_\_\_\_ Yes

Has lab warranted all tests were in statistical control in CoA (Yes/No)?: \_\_\_\_\_ Yes

Has lab warranted all tests were analyzed following SOP's in CoA (Yes/No)?: \_\_\_\_\_ Yes

Were all samples analyzed within hold times (Yes/No)?: \_\_\_\_\_ Yes

All volatiles samples methanol extracted (if required) within 48 hours (Yes/No)?: \_\_\_\_\_ NA

Is Chain of Custody completed and signed (Yes/No)?: \_\_\_\_\_ Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?: \_\_\_\_\_ Yes

Was a Data Quality Waiver (DQW) issued (Yes/No)?: \_\_\_\_\_ No

Date Issued: \_\_\_\_\_ NA Date of Response: \_\_\_\_\_ NA

Is data considered to be reliable (Yes/No)?: \_\_\_\_\_ Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Fatema Tawawala Date Reviewed by (Signature): [Signature]

Date: May 8, 2008

*APPENDIX D*

*SAMPLING METHODOLOGY*

**Sampling Methodology**  
**Summary of Wardrop Engineering Inc.**  
**General Practices for Soil and Ground Water Sampling**

Sampling Activity	Section	General Practices
<b>Organic Vapour Meter (OVM)</b>	<b>A</b>	<ul style="list-style-type: none"> <li>- A catalytic explosimeter with methane exclusion capability (eg. the Gastech 1238ME) is used as the instrument for measuring the organic vapours in soil.</li> <li>- The Gastech used, is at a minimum, calibrated daily, prior to use in the field.</li> <li>- The standard practice for measuring the soil vapour is to fill a plastic sealed bag 1/4 full and allow the soil to equilibrate for 30 minutes at a minimum of 15 degrees Celsius before measurement of the peak headspace vapour concentration.</li> <li>- The Organic Vapour Meter (OVM) concentration in the bagged soil sample's headspaces is carried out with the Gastech 1238ME in parts per million (ppm) or as a percentage of the lower explosive limit (% LEL) of equivalent hexane vapour. A reading of 110 ppm is the equivalent of 1% LEL. The gas detector is set to screen out a response due to methane gas.</li> </ul>
<b>Discrete Soil Sampling</b>	<b>B</b>	<ul style="list-style-type: none"> <li>- Discrete samples are taken from a single sampling location, over as short a time period as possible.</li> <li>- Each sample is examined and described in the field for colour, texture, and olfactory/visual evidence of petroleum hydrocarbon impact.</li> <li>- Discrete samples are used for all parameters that are wholly or partially composed of volatile organic fractions.</li> <li>- Homogenization of discrete samples being submitted for laboratory analysis is not conducted.</li> </ul>
<b>Composite Soil Sampling</b>	<b>C</b>	<ul style="list-style-type: none"> <li>- Composite samples are taken from multiple sampling locations over as short a time period as practical.</li> <li>- Composite samples cannot be used for parameters with volatile organic fractions. They can be used for non-volatile organic and inorganic parameters.</li> <li>- Homogenization of composite samples being submitted for laboratory analysis is not carried out.</li> </ul>
<b>Sample Handling</b>	<b>D</b>	<ul style="list-style-type: none"> <li>- Contact or handling of the soil is minimized at all times by use of gloves or plastic sampling materials. Stainless steel sampling devices are utilized.</li> <li>- The top layer of soil is discarded to expose a fresh face of soil for sampling.</li> <li>- Bottles being submitted to the laboratory for volatiles analysis have "zero headspace". Zero headspace is used for all analyses (including non-volatile organic and inorganic parameters), assuming sufficient soil volumes are available to completely fill the bottles for these parameters. Settlement due to wet or un-compactable soil samples can occur.</li> <li>- Samples being submitted to the laboratory for organic parameter analysis have contact with plastics minimized.</li> <li>- Soil samples used for field vapour screening are not submitted for laboratory analysis of organic parameters.</li> </ul>

**Sampling Methodology**  
**Summary of Wardrop Engineering Inc.**  
**General Practices for Soil and Ground Water Sampling**

Sampling Activity	Section	General Practices
<p style="text-align: center;"><b>Sample Bottles, Preservation, and Shipment</b></p>	<p style="text-align: center;"><b>E</b></p>	<ul style="list-style-type: none"> <li>- All samples submitted to the laboratory are subjected to internal quality assurance/quality control checklist (including temperature measurement) prior to laboratory submission.</li> <li>- All provincial guidelines or regulations regarding sample preservation that are required are used.</li> <li>- Sample bottles with appropriate preservatives are provided by accredited laboratory.</li> <li>- Only samples being sent to the lab for textural analysis (a physical test) are submitted to the lab in plastic bags.</li> <li>- Samples are submitted to laboratory within the holding times (as a minimum) of regulatory Guidance requirement limits. Proper preservation methods are used as recommended by accredited laboratories. When samples are placed and transported in a cooler, a temperature of &lt; 10 degrees Celsius is maintained by using ice.</li> <li>- Hollow stem augers are used as the preferred method. Samples are collected at 0.75 metre intervals.</li> <li>- One (1) sample with the highest observed OVM concentration is collected for laboratory analysis, and if necessary, a clean bottom is obtained, therefore, for each borehole at least one (1) soil sample is submitted to the laboratory.</li> </ul>
<p style="text-align: center;"><b>Borehole Sampling</b></p>	<p style="text-align: center;"><b>F</b></p>	<ul style="list-style-type: none"> <li>- A steel split spoon sampler is used to collect a 24 inch (0.6 metre) sample. The split spoon is driven as per ASTM D1586-99 and the number of blow counts is recorded.</li> <li>- Discrete interval sampling of the borehole is conducted.</li> <li>- Taking disturbed samples from the hollow stem auger flights may occur when driving a split spoon is not possible.</li> <li>- Prior to taking a sample of the split spoon core, the outer layer of the core is removed.</li> <li>- Soil samples for field vapour and chemical analyses are taken separately by longitudinally splitting the core.</li> <li>- Representative discrete samples are taken from each distinct zone (based on soil type and level of contamination).</li> <li>- After each use of the split spoon, the sampler is washed with light (phosphate-free) soapy water and rinsed with clean water followed by a methanol rinse.</li> </ul>
<p style="text-align: center;"><b>Test Pit Sampling</b></p>	<p style="text-align: center;"><b>G</b></p>	<ul style="list-style-type: none"> <li>- Soil samples from the test pit are taken from the excavator bucket.</li> <li>- At 0.5 metre intervals, soil samples will be collected, bottled and monitored for OVM concentrations.</li> <li>- A <u>minimum</u> of one (1) sample per test pit is sent to the laboratory for analysis; even from test pits that exhibit no contamination based on field observations. Bottled samples not selected for laboratory analysis are discarded.</li> <li>- If contamination is encountered, the <u>first</u> non-impacted sample interval underneath the contaminated layer is selected for laboratory analysis.</li> <li>- The test pit is backfilled with the excavated soil in the approximate order that it was removed.</li> <li>- Alternatively, highly contaminated soil is segregated and tested for off-site disposal.</li> </ul>

**Sampling Methodology**  
**Summary of Wardrop Engineering Inc.**  
**General Practices for Soil and Ground Water Sampling**

<b>General Practices</b>	
<b>Sampling Activity</b>	<b>Section</b>
<b>Excavation Sampling</b>	<b>H</b>
	<ul style="list-style-type: none"> <li>- All provincial guidelines or regulations which are required for a specific site are applied.</li> <li>- Excavations remain open until zones with highest vapour concentrations are determined and sampled.</li> <li>- The samples are bottled directly from the excavator bucket and are placed in laboratory prepared glass jars, sealed, and packed on ice in a cooler.</li> <li>- Soils are sampled on the walls at horizontal intervals of approximately 3.0 metre and at vertical intervals of approximately 1.0 metre. Soils are sampled from the floor in an approximate 3.0 metre square grid pattern.</li> <li>- Schedule 40 PVC, 50 millimetre inside diameter PVC casings is used, the screen is slot 10 with no filter sock.</li> <li>- PVC casings used meet the requirements of ASTM Standard F480-02.</li> <li>- The PVC casings used have threaded, flush-joint ends with square profile threads and an O-ring seal.</li> <li>- A clean silica sand pack (K&amp;E #3 or equivalent) is placed around the annulus of the well screen and to a minimum of 0.3 metre above the top of screen.</li> <li>- A minimum of 0.9 metres of riser is used (unless ground water level is expected at less than 0.9 metres below grade).</li> </ul>
<b>Monitoring Well Installation</b>	<b>I</b>
	<ul style="list-style-type: none"> <li>- Dry chipped bentonite is used to fill the annulus from the top of the sand pack to approx. one (1) metre below grade.</li> <li>- Hydrated bentonite is used to seal the annulus from the top of the chipped bentonite to the ground surface.</li> <li>- Monitoring wells are protected by installing a flush mount or aboveground steel casing. If the well is installed in a high traffic area, (eg: a roadway), the steel casing installed meets AASHTO standard M306-89.</li> <li>- All steel casings are finished with 15-20 centimetres of concrete or coldpatch at grade to prevent settlement.</li> <li>- All monitoring wells are locked (either caps or the casings) to prevent entry by unauthorized personnel.</li> <li>- Nested wells that target various vertical zones are installed in separate boreholes.</li> <li>- Monitoring well construction details are included in the borehole logs.</li> </ul>
<b>Monitoring Well Water Sampling</b>	<b>J</b>
	<ul style="list-style-type: none"> <li>- Dedicated equipment is used to purge (and for metals: filters) the ground water before sampling.</li> <li>- Purging of monitoring well is conducted by removing at least three (3) well volumes of ground water, or pumping the well to dryness, or pumping the well until the temperature/ pH/ conductivity of the water has stabilized.</li> <li>- Dedicated water sampling equipment (preferably high density) polyethylene sample tubing attached to ball-check valve assembly is used for sampling.</li> <li>- Sample bottles have zero headspace (except for the gravimetric determination of oil/ grease).</li> <li>- Field preservation of water samples includes hydrochloric acid for benzene, toluene, ethylbenzene, xylenes (BTEX), petroleum hydrocarbon fractions F1-F4 and volatile organic compounds (VOCs) and nitric acid for lead.</li> </ul>

*For Exclusive Use by Wardrop Engineering Inc. Only*

*APPENDIX E*

*WASTE MANIFESTS*

**MOVEMENT DOCUMENT / MANIFEST**  
**DOCUMENT DE MOUVEMENT / MANIFESTE**

This Movement document/manifest conforms to all federal and provincial transport and environmental legislation. Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

RT19782-2-1

RT19782-2

Movement Document / Manifest Reference No.  
 N° de référence du document de mouvement/manifeste

<b>Generator / consigneur</b> Producteur / expéditeur Registration No. / Provincial ID No. N° d'immatriculation - cid. provincial ON 9096008		<b>Carrier</b> Transporteur Registration No. / Provincial ID No. N° d'immatriculation - cid. provincial A84650	
Company name / Nom de l'entreprise SHELL CANADA PRODUCTS CO LEE HOWELL 100 SHEPPARD AVE EAST TORONTO ONTARIO M2N 6Y2 City/Ville TORONTO ONTARIO		Company name / Nom de l'entreprise ENVIRONWAY WASTE MANAGEMENT INC 2000 SHEPPARD AVE EAST TORONTO ONTARIO M2N 6Y2 City/Ville TORONTO ONTARIO	
Shipping site address / Adresse de lieu de l'expédition 3005 DUNDAS STREET WEST City/Ville OAKVILLE, HALTON, ONTARIO		Receiving site address / Adresse de lieu de réception 1010 VOY AVE City/Ville PICKERING, ONTARIO	
Intended Receiver / destinataire prévu DIRECT WASTE 1010 VOY AVE City/Ville PICKERING, ONTARIO		Intended Receiver / destinataire prévu ENVIRONWAY WASTE MANAGEMENT INC 2000 SHEPPARD AVE EAST TORONTO ONTARIO M2N 6Y2 City/Ville TORONTO ONTARIO	
Shipping date / Date de l'expédition 08/01/10		Date received / Date de réception 08/01/10	
Vehicle / Véhicule Trailer - Rail car No. 1 290 SRZ Trailer - Rail car No. 2 ONY		Vehicle / Véhicule Trailer - Rail car No. 1 290 SRZ Trailer - Rail car No. 2 ONY	
Port of entry / Point d'entrée Point of exit / Point de sortie Port of entry / Point d'entrée Point of exit / Point de sortie		Port of entry / Point d'entrée Point of exit / Point de sortie Port of entry / Point d'entrée Point of exit / Point de sortie	
Name of authorized person (print) / Nom de l'agent autorisé (caractères d'impression) ANTHONY GARIBAYI 9058323247 Year / Année 08/01/10		Name of authorized person (print) / Nom de l'agent autorisé (caractères d'impression) ANTHONY GARIBAYI 9058323247 Year / Année 08/01/10	
Class / Classes Sra. class(es) / Classe(s) NA NA NA		Class / Classes Sra. class(es) / Classe(s) NA NA NA	
Shipment name / Nom de l'expédition WASTE OIL WATER		Shipment name / Nom de l'expédition WASTE OIL WATER	
Notice No. / N° de notification 251L		Notice No. / N° de notification 251L	
National code in country of / Code du pays NA NA NA		National code in country of / Code du pays NA NA NA	
Y codes / Codes Y NA NA NA		Y codes / Codes Y NA NA NA	
H code / Code H NA NA NA		H code / Code H NA NA NA	
Export / Exportation NA NA NA		Export / Exportation NA NA NA	
Import / Importation NA NA NA		Import / Importation NA NA NA	
Customs code(s) / Code(s) de douanes NA NA NA		Customs code(s) / Code(s) de douanes NA NA NA	
Units / Unités L or / ou kg NA NA NA		Units / Unités L or / ou kg NA NA NA	
Packing / Emballage NA NA NA		Packing / Emballage NA NA NA	
Quantity shipped / Quantité expédiée 170 L 01 03 L		Quantity shipped / Quantité expédiée 170 L 01 03 L	
Comments / Commentaires NA NA NA		Comments / Commentaires NA NA NA	
Handling code / Code de manutention NA NA NA		Handling code / Code de manutention NA NA NA	
Shipment accepted / Expédié NA NA NA		Shipment accepted / Expédié NA NA NA	
Shipment received / Reçu NA NA NA		Shipment received / Reçu NA NA NA	
Registration No. / Provincial ID No. N° d'immatriculation - cid. provincial NA NA NA		Registration No. / Provincial ID No. N° d'immatriculation - cid. provincial NA NA NA	

Special handling / Manutention spéciale  
 At least 10 days before / Au moins 10 jours avant  
 As follows / Circons : 24 HOURS  
 DIRECT WASTE 1-800-591-2517

Signature: H.A.M. MAD SAEED HUND (905) 470-6570  
 Signature: ANTHONY GARIBAYI (905) 470-6570

21 Date shipped / Date d'expédition  
 Year / Année: 08/01/10  
 Month / Mois: 01  
 Day / Jour: 10

22 Scheduled arrival date / Date d'arrivée prévue  
 Year / Année: 08/01/10  
 Month / Mois: 01  
 Day / Jour: 10

23 If handling code "Other" (specify) / Si code de manutention a autre (spécifier)  
 Receiver / consigneur certification: I certify that the information contained in Part C is correct and complete. / Attestation du réceptionnaire / destinataire - J'atteste que tous les renseignements à la partie C sont exacts et complets.

24 If waste or recyclable material to be transferred, specify intended company name(s) / Si les déchets ou matières recyclables doivent être transférés, préciser le nom du destinataire

25 Date received / Date de réception  
 Year / Année: 08/01/10  
 Month / Mois: 01  
 Day / Jour: 10

26 Date received / Date de réception  
 Year / Année: 08/01/10  
 Month / Mois: 01  
 Day / Jour: 10

27 Name of authorized person (print) / Nom de l'agent autorisé (caractères d'impression)  
 Signature: ANTHONY GARIBAYI (905) 470-6570

28 Name of authorized person (print) / Nom de l'agent autorisé (caractères d'impression)  
 Signature: ANTHONY GARIBAYI (905) 470-6570

29 Name of authorized person (print) / Nom de l'agent autorisé (caractères d'impression)  
 Signature: ANTHONY GARIBAYI (905) 470-6570

30 Name of authorized person (print) / Nom de l'agent autorisé (caractères d'impression)  
 Signature: ANTHONY GARIBAYI (905) 470-6570

Instructions for completion and distribution on reverse / Instructions pour compléter et distribuer au verso

EXT 12-1





**WARDROP**

*APPENDIX F*

*MOE WELL RECORDS*



Ministry of the Environment

Well Tag No. for Master Well (Place Sticker and/or Print Below)

A060541

Master Well Record for Cluster Well Construction

Regulation 903 Ontario Water Resources Act

Page 1 of 2

Master Well Owner's and Land Owner's Information

First Name, Last Name, E-mail Address, Mailing Address, Municipality, Province, Postal Code, Telephone No.

Location and Construction of the Master Well in the Cluster

Address of Well Location, Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code

UTM Coordinates, Zone, Easting, Northing, GPS Unit Make, Model, Mode of Operation

Overburden and Bedrock Materials (see instructions on the back of this form)

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (Metres) From, To, Hole Details (Depth, Diameter)

Water Use

Public, Industrial, Not used, Other, Domestic, Commercial, Dewatering, Livestock, Municipal, Monitoring, Irrigation, Test Hole, Cooling & Air Conditioning

Method of Construction

Cable Tool, Air Percussion, Digging, Rotary (Conventional), Diamond, Boring, Rotary (Reverse), Jetting, Other, Rotary (Air), Driving

Status of Well

Test Hole, Abandoned, Insufficient Supply, Replacement Well, Abandoned, Poor Water Quality, Dewatering Well, Other, Alteration (Construction), Abandoned, other

No Casing and Screen Used

Open Hole, Yes, No, Metres, Screen: Galvanized, Steel, Fibreglass, Concrete, Plastic, Outside Diameter, Slot No.

Water Details

Water found at Depth, Kind of Water (Gas, Fresh, Salty, Sulphur, Minerals)

Annular Space/Abandonment Sealing Record

Table with columns: Depth Set at (From, To), Type of Sealant Used, Volume Used

Cluster Information

Total Wells in Cluster, Total Wells on this Property, Date Master Well Completed

Location of Well Cluster

Detailed Map must be provided, Consent to release additional information, Signature of Technician/Contractor, Date

Well Contractor and Well Technician Information

Business Name of Well Contractor, Well Contractor's Licence No., Business Address, Municipality, Province, Postal Code, Business E-mail Address, Bus. Telephone No., Name of Well Technician, Well Technician's Licence No., Signature of Technician, Date Submitted

Ministry Use Only

Audit No., Well Contractor No., Date Received, Date of Inspection, Remarks



Ministry of the Environment

Well Tag No. for Master Well (Print Well Tag No.)

AUG2541

# Cluster Well Information for Cluster Well Construction

Regulation 903 Ontario Water Resources Act

Page 2 of 2

**Consent**

Property Owner's Consent to use cluster form  
 Signature \_\_\_\_\_ Date (yyyy/mm/dd) \_\_\_\_\_

Consent to release additional information to the Director upon request  
 Signature of Technician/Contractor \_\_\_\_\_ Date (yyyy/mm/dd) 2007/12/18

**Property Owner's Information**

Last Name: \_\_\_\_\_ Municipality: \_\_\_\_\_  
 Mailing Address (Street No./Name, RR): \_\_\_\_\_ Telephone No. (inc. area code): 416-237-7136  
 Province: \_\_\_\_\_ E-mail Address: \_\_\_\_\_

**Cluster Well Information**

Address of Well Location (Street Number/Name, RR): \_\_\_\_\_ Township: \_\_\_\_\_  
 City/Town/Village: Oakville Concession: \_\_\_\_\_  
 Province: Ontario GPS Unit Make: \_\_\_\_\_ Model: X  
 Unit Mode of Operation:  Undifferentiated  Averaged

Well # on Sketch	Zone	Easting	UTM Coordinates Northing	Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Material	Casing Length (metres)	Screen Interval (metres) From To	Annular Space Sealant Used	Stake Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
1	17	517818734	480919416	3.8	21	cugc	Plastic	0.76	0.76	3.8	Beidanto	—		2007/12/17
2	17	517819715	480919415	3.8	21	cugc	Plastic	0.76	0.76	3.8	Beidanto	—		2007/12/18
4	17	517819810	480918889	3.8	21	cugc	Plastic	0.76	0.76	3.8	Beidanto	—		2007/12/18
5	17	517819844	480918973	3.8	21	cugc	Plastic	0.76	0.76	3.8	Beidanto	—		2007/12/18
6	17	517819934	480919163	3.8	21	cugc	Plastic	0.76	0.76	3.8	Beidanto	—		2007/12/18

Date 1st Well in Cluster Constructed (yyyy/mm/dd) 2007/12/17 Date Last Well in Cluster Constructed (yyyy/mm/dd) 2007/12/18

**Ministry Use Only**

Date Received (yyyy/mm/dd) \_\_\_\_\_ Date Inspected (yyyy/mm/dd) \_\_\_\_\_

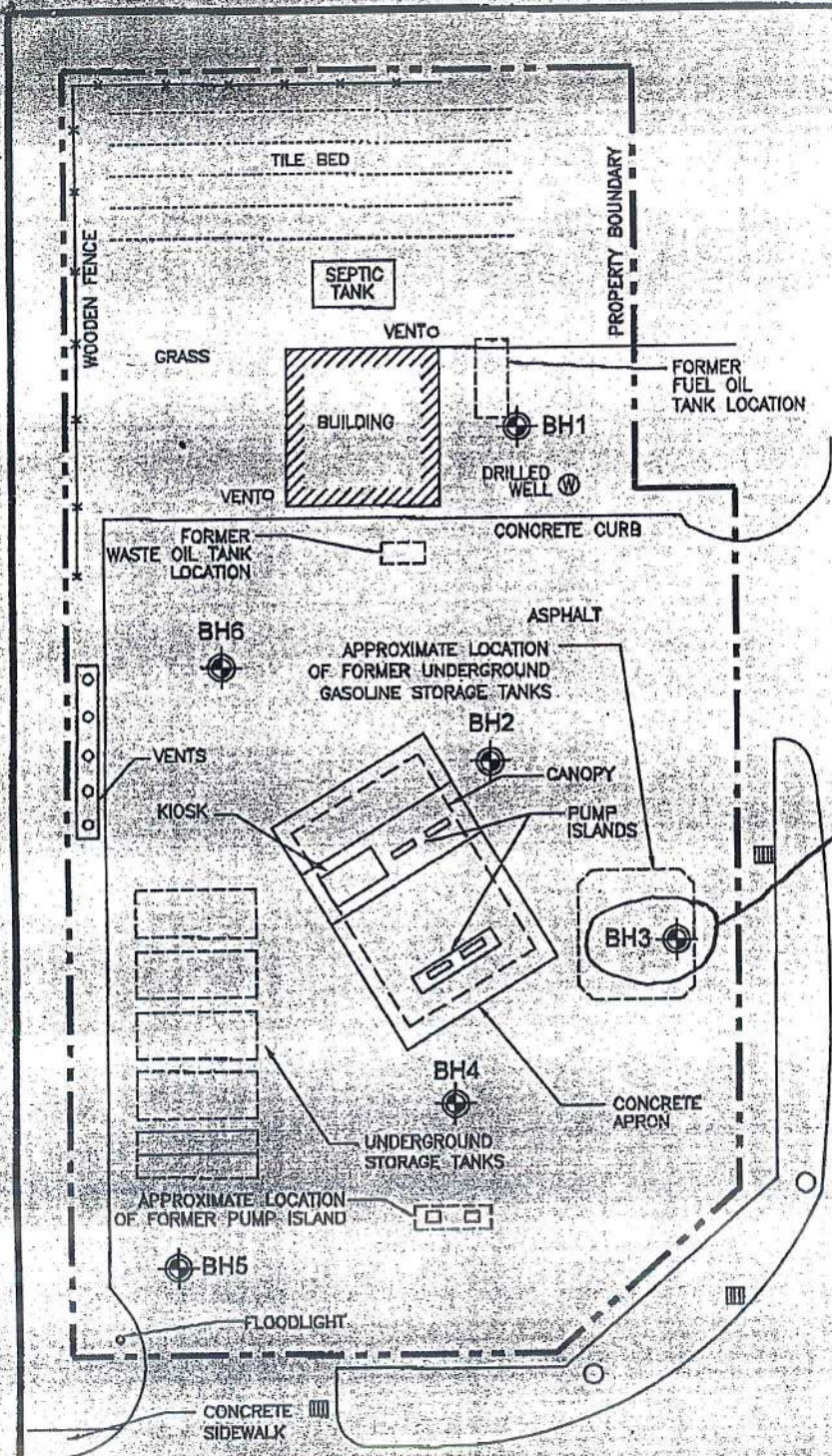
Audit No. 02239 Remarks \_\_\_\_\_

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: \_\_\_\_\_ Business Address (Street Number/Name, RR): \_\_\_\_\_ Municipality: \_\_\_\_\_ Province: \_\_\_\_\_

Business Telephone No. (inc. area code): \_\_\_\_\_ Well Contractor's Licence No.: \_\_\_\_\_ Business E-mail Address: \_\_\_\_\_




Name of Well Technician (First Name, Last Name): \_\_\_\_\_ Well Technician's Licence No.: \_\_\_\_\_ Date Submitted (yyyy/mm/dd): 2007/12/18 Signature of Technician: \_\_\_\_\_



A062541

Tagged Well

**LEGEND**

-  BOREHOLE WITH MONITORING WELL
-  CATCH BASIN
-  MANHOLE

**WARDROP** Engineering Inc.

Title:	SITE PLAN	
Project:	PHASE II ENVIRONMENTAL SITE ASSESSMENT	
Client:	SHELL CANADA PRODUCTS	
Location:	3005 DUNDAS STREET WEST OAKVILLE, ONTARIO	
Date:	JANUARY 2008	Checked: <i>BF</i>
		FIGURE 3



DRAWN/REVISED/PHASE II ESA/REPORT/FIGURES



Ministry of the Environment

Well Tag No. for Master Well (Place Sticker and/or Print Below)

# Master Well Record for Cluster Well Construction

Regulation 903 Ontario Water Resources Act

RECEIVED MAY 6 2008 A 054647

A 054647

Page 1 of 3

### Master Well Owner's and Land Owner's Information

First Name: SHELL CANADA PRODUCTS Last Name: ATTN: LEE HOWELL E-mail Address: \_\_\_\_\_  
 Mailing Address (Street Number/Name, RR): 90 SHEPPARD AVE. EAST Municipality: TORONTO Province: ON Postal Code: M2M 6Y2 Telephone No. (inc. area code): 800 661 1161

### Location and Construction of the Master Well in the Cluster

Address of Well Location (Street Number/Name, RR): 3005 DUNDAS STREET WEST Township: \_\_\_\_\_ Lot: \_\_\_\_\_ Concession: \_\_\_\_\_  
 County/District/Municipality: HALTON REGION City/Town/Village: OAKVILLE Province: Ontario Postal Code: L1G 1J4

UTM Coordinates: Zone: 83 Easting: 175918956 Northing: 480919131 GPS Unit Make: Magellan Model: Sportrak Mode of Operation:  Undifferentiated  Averaged  Differentiated, specify \_\_\_\_\_

### Overburden and Bedrock Materials (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (Metres)		Hole Details		
				From	To	From	To	Diameter (Centimetres)
BROWN	TOP SOIL	-	LOOSE	0.0	0.3	0	4.4	2"
BROWN	CLAY	SILT, GRAVEL	LOOSE, SOFT	0.3	1.8			
BROWN	CLAY	SILT, GRAVEL	DENSE	1.8	4.4			

#### Water Use

Public  Industrial  Not used  Other, specify \_\_\_\_\_  
 Domestic  Commercial  Dewatering  
 Livestock  Municipal  Monitoring  
 Irrigation  Test Hole  Cooling & Air Conditioning

#### Method of Construction

Cable Tool  Air Percussion  Digging  
 Rotary (Conventional)  Diamond  Boring  
 Rotary (Reverse)  Jetting  Other, specify \_\_\_\_\_  
 Rotary (Air)  Driving

#### Status of Well

Test Hole  Abandoned, Insufficient Supply  
 Replacement Well  Abandoned, Poor Water Quality  
 Dewatering Well  Other, specify \_\_\_\_\_  
 Alteration (Construction)  Abandoned, other, specify \_\_\_\_\_

#### No Casing and Screen Used

Open Hole  Yes  No \_\_\_\_\_ Metres

#### Screen

Galvanized  Steel  Fibreglass  Concrete  Plastic  
 Outside Diameter (Centimetres): 6.4 Slot No.: 10

#### Water Details

Water found at Depth: 1.12 Metres Kind of Water:  Gas  Fresh  Salty  Sulphur  Minerals  
 Water found at Depth: \_\_\_\_\_ Metres Kind of Water:  Gas  Fresh  Salty  Sulphur  Minerals  
 Water found at Depth: \_\_\_\_\_ Metres Kind of Water:  Gas  Fresh  Salty  Sulphur  Minerals

Disinfected  Yes  No If no, provide reason: \_\_\_\_\_ Date Master Well Completed (yyyy/mm/dd): 2008/04/03

#### Cluster Information (Please also fill out the additional Cluster Well Information for Well Construction for each parcel of land and cluster.)

Total Wells in Cluster: 2 Please indicate Number of Cluster Well Information Log Sheets Submitted: 1  
 Total Wells on this Property: 1

#### Location of Well Cluster

Detailed Map must be provided as an attachment no larger than legal size (8.5" x 14"). Sketches are not allowed.  
 Check box to confirm detailed map is provided as per Section 11.1 (3)

#### Consent to release additional information concerning the cluster to the Director upon request

Signature of Technician/Contractor: \_\_\_\_\_ Date (yyyy/mm/dd): 2008/04/03

#### Master Well Owner's/Land Owner's consent to use Cluster Form

Signature: \_\_\_\_\_ Date (yyyy/mm/dd): \_\_\_\_\_

### Construction Details

Inside Diameter (Centimetres)	Material (steel, plastic, fibreglass, concrete, galvanized)	Wall Thickness	Depth (Metres)	
			From	To
5.1	PLASTIC	0.65	0	4.4

### Annular Space/Abandonment Sealing Record

Depth Set at (Metres) From	To	Type of Sealant Used (Material and Type)	Volume Used (Cubic Metres)
0	0.48	curt concrete	
0.48	0.60	Bentonite	
0.60	4.4	SAND	

### Well Contractor and Well Technician Information

Business Name of Well Contractor: GEO ENVIRONMENTAL DRILLING Well Contractor's Licence No.: 661017  
 Business Address (Street No./Name, number, RR): 300 NORTH AVE MILTON Municipality: HALTON  
 Province: ON Postal Code: L7R 6K4 Business E-mail Address: \_\_\_\_\_  
 Bus. Telephone No. (inc. area code): 905 886 8888 Name of Well Technician (Last Name, First Name): GANNE HOWE  
 Well Technician's Licence No.: 131109 Signature of Technician: \_\_\_\_\_ Date Submitted (yyyy/mm/dd): 2008/04/03

#### Ministry Use Only

Audit No.: M 01729 Well Contractor No.: \_\_\_\_\_  
 Date Received (yyyy/mm/dd): \_\_\_\_\_ Date of Inspection (yyyy/mm/dd): \_\_\_\_\_  
 Remarks: \_\_\_\_\_



Ministry of the Environment

Well Tag No. for Master Well (Print Well Tag No.)

A 054647

### Cluster Well Information for Cluster Well Construction

Regulation 903 Ontario Water Resources Act

Page 7 of 7

<b>Consent</b>	
Property Owner's Consent to use cluster form Signature	Date (yyyy-mm-dd)
Consent to release additional information to the Director upon request Signature of Technician/Contractor	Date (yyyy-mm-dd)

<b>Property Owner's Information</b>	
First Name SHELL CANADA PRODUCTS	Last Name ATTN: LEE HOWELL
Province ONTARIO	E-mail Address
Mailing Address (Street No./Name, RR) 90 SHEPPARD AVE. EAST	Municipality TORONTO
Telephone No. (inc. area code) 3006611600	County/District/Municipality HALTON REGION
<b>Cluster Well Information</b>	
Address of Well Location (Street Number/Name, RR) 3005 DUINDAS STREET WEST	Lot
City/Town/Village BARVILLE	Postal Code L6M4J4
Province Ontario	Concession
GPS Unit Make Magellan	Model Sportrakk
Unit Mode of Operation <input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Differentiated, specify:	Abandonment Sealant Used <input checked="" type="checkbox"/> Averaged

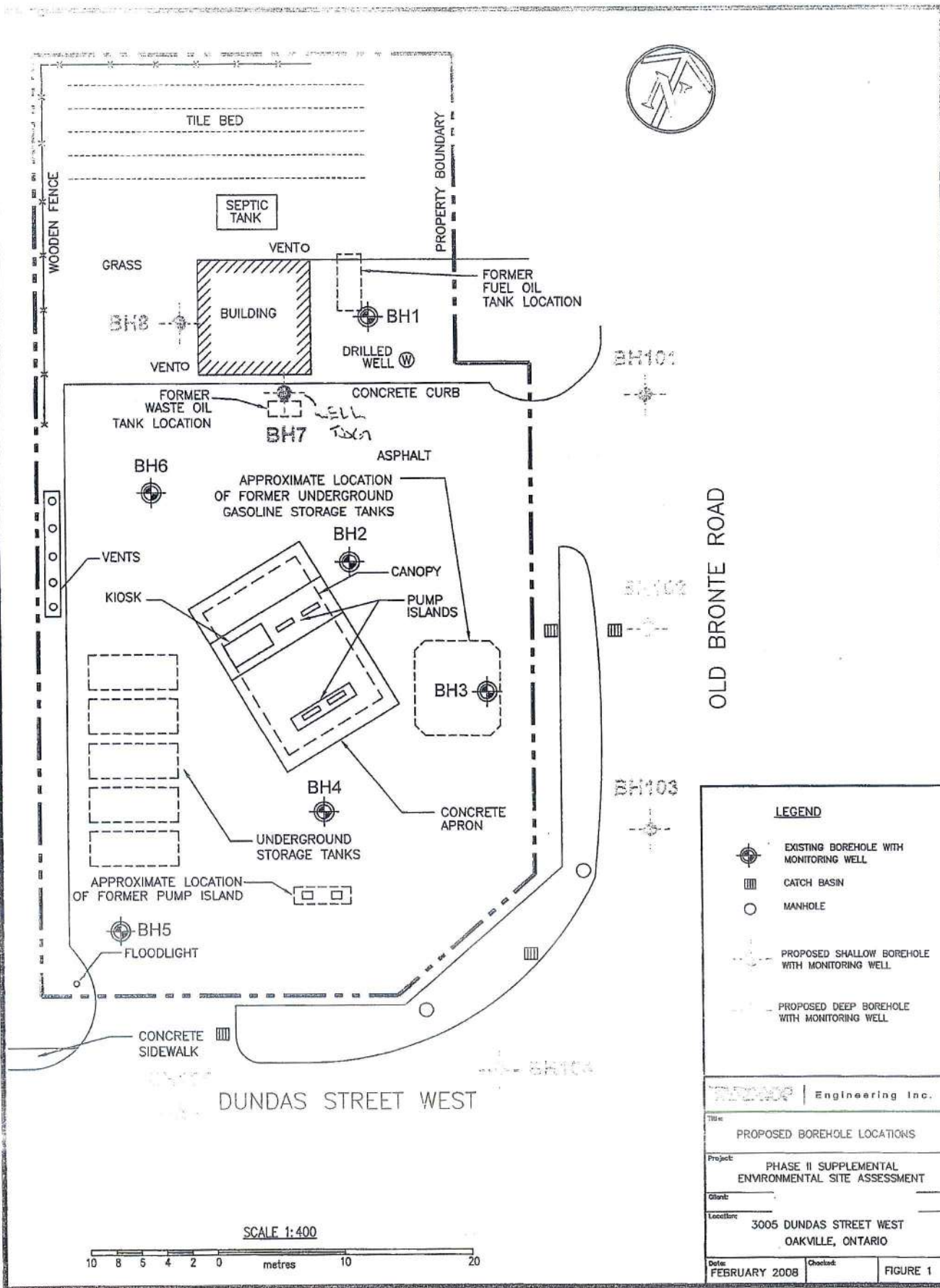
Well # on Slitch	UTM Coordinates		Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Material	Casing Length (metres)	Screen Interval (metres)		Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
	Zone	Easting						Northing	From					
B47	17	5918	94809931	44	21	Boring	0.6	0.6	3.6	Annular	3.5			2008/04/03

<b>Well Contractor and Well Technician Information</b>	
Business Name of Well Contractor Geotechnical Drilling	Business Address (Street Number/Name, RR) 340 MASTER AVE. UNIT 12
Business Telephone No. (inc. area code) 416 544 9035	Business E-mail Address 6607
Name of Well Technician (First Name, Last Name) Tom Gamme	Date Submitted (yyyy/mm/dd) 31/09/2008
Signature of Technician	Signature of Technician
Audit No. C 02741	Remarks
Date 1st Well in Cluster Constructed (yyyy/mm/dd) 2008/04/03	Date Last Well in Cluster Constructed (yyyy/mm/dd) 2008/04/03
Date Received (yyyy/mm/dd)	Date Inspected (yyyy/mm/dd)

1691 (11/2006)

Well Owner's Copy

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**LEGEND**

- EXISTING BOREHOLE WITH MONITORING WELL
- CATCH BASIN
- MANHOLE
- PROPOSED SHALLOW BOREHOLE WITH MONITORING WELL
- PROPOSED DEEP BOREHOLE WITH MONITORING WELL

Engineering Inc.	
Title PROPOSED BOREHOLE LOCATIONS	
Project PHASE II SUPPLEMENTAL ENVIRONMENTAL SITE ASSESSMENT	
Client	
Location 3005 DUNDAS STREET WEST OAKVILLE, ONTARIO	
Date FEBRUARY 2008	Sheet FIGURE 1

SCALE 1:400



PROPOSAL/p888/SUPPLEMENTAL PHASE II ESA/FIGURES



*APPENDIX G*

*SOIL AND GROUNDWATER  
SAMPLE QUALITY  
ASSURANCE/QUALITY  
CONTROL*

**Soil and Groundwater Sample Quality Assurance/Quality Control (QA/QC)**

**TABLE F1  
SUMMARY OF RELATIVE PERCENT DIFFERENCE (RPD) CALCULATIONS  
SOIL FIELD DUPLICATE SAMPLE  
PETROLEUM HYDROCARBON PARAMETERS  
December 17/18, 2007**

Sample ID Laboratory ID	RDL	BH5-SS2 W50370	DUP (Field duplicate of BH5-SS2) W50375	RPD	Alert Limit
<b>Units</b>	µg/g	µg/g	µg/g	%	%
<b>Benzene</b>	0.02	5.6	2.0	94.74	100
<b>Toluene</b>	0.02	65	23	95.45	100
<b>Ethylbenzene</b>	0.02	26	9.7	91.32	100
<b>Total Xylenes</b>	0.04	160	53	100.47	100
<b>F1 (C6-C10); excluding BTEX</b>	10	160	190	NC	100
<b>F2 (&gt;C10-C16)</b>	10	16	98	NC	100
<b>F3 (&gt;C16-C34)</b>	10	<	13	NC	100
<b>F4 (&gt;C34-C50)</b>	10	<	<	NC	100
<b>Lead</b>	5	NA	NA	NC	100

**TABLE F2  
SUMMARY OF RELATIVE PERCENT DIFFERENCE (RPD) CALCULATIONS  
GROUNDWATER FIELD DUPLICATE SAMPLE  
PETROLEUM HYDROCARBON PARAMETERS  
January 8, 2008**

Sample ID Laboratory ID	RDL	BH4 W69280	DUP (Field duplicate of BH4) W69284	RPD	Alert Limit
<b>Units</b>	µg/L	µg/L	µg/L	%	%
<b>Benzene</b>	0.1	2,000	2,300	13.95	80
<b>Toluene</b>	0.2	<	<	NC	80
<b>Ethylbenzene</b>	0.1	660	930	33.96	80
<b>Methyl t-butyl ether (MTBE)</b>	0.2	380	650	52.43	80
<b>Total Xylenes</b>	0.1	860	1,000	15.05	80
<b>F1 + F2 (C6-C16); excluding BTEX</b>	100	<	<	NC	80
<b>F3 + F4 (&gt;C16-C50)</b>	100	<	<	NC	80

**Table Abbreviations:** (<) = parameter present below the laboratory reportable detection limit (RDL); (µg/g) = micrograms per gram; (NC) = Not Calculable (since one or both of the reported results is less than five (5) times the RDL); (NA) = Not Analysed.

**Note:** Typical RDL values are shown, for adjusted RDLs refer to the laboratory certificates of analyses

## **Soil and Groundwater Sample Quality Assurance/Quality Control (QA/QC)**

### Soil

The extraction surrogate recovery for D10-ethylbenzene was above its associated upper control limit for soil samples BH3-SS2 and BH5-SS2. Therefore, possible high bias in BTEX and F1 (excluding BTEX) results were reported for these soil samples. For soil sample BH3-SS2, results for all parameters are well above the MOE Table 2 standards, except for toluene, which is below the MOE Table 2 standard. For soil sample BH5-SS2, results for all parameters are well above the MOE Table 2 standards, except for F1 (excluding BTEX), which is below the MOE Table 2 standard. The potential for a positive bias in the data should have no material effect on the interpretation of the reported BTEX and F1 (excluding BTEX) results.

Relative percent differences (RPD) calculations are only performed if the analytical results for both the sample and the associated field duplicate sample are greater than five (5) times the laboratory reportable detection limit (RDL).

The results of the RPD calculations for one (1) soil sample (BH5-SS2) and its field duplicate soil sample (DUP) are presented on Table F1 and discussed below:

- Soil sample BH5-SS2 and its associated field duplicate sample, DUP, had RPD values of 94.74% for benzene, 95.45% for toluene and 91.32% for ethylbenzene. The RPDs for these parameters were within their respective alert limits.
- Soil sample BH5-SS2 and its associated field duplicate sample, DUP, had a RPD value of 100.47% for total xylenes which is not within its respective alert limit. This can be attributed to heterogeneous soil conditions.
- Concentrations for all other parameters analysed were below the laboratory RDLs for soil sample BH5-SS2 and its associated field duplicate sample (DUP). Therefore, the RPDs could not be calculated.

In summary, no issues with laboratory analysis, sample shipping, sample preservation, or field sampling techniques that could have a material effect on the interpretation of the reported results were identified as part of this QA/QC program. Therefore, all soil analytical laboratory data are considered reliable.

### Groundwater

All applicable laboratory QC samples and applicable field QC samples were within acceptance criteria and alert limits.

Relative percent differences (RPD) calculations are only performed if the analytical results for both the sample and the associated field duplicate sample are greater than five (5) times the laboratory reportable detection limit (RDL).

## **Soil and Groundwater Sample Quality Assurance/Quality Control (QA/QC)**

The results of the RPD calculations for one (1) groundwater sample (BH4) and its field duplicate groundwater sample (DUP) are presented on Table F2 and discussed below:

- Groundwater sample BH4 and its associated field duplicate sample, DUP, had RPD values of 13.95% for benzene, 33.96% for ethylbenzene, 52.43% for MTBE and 15.05% for xylenes. The RPDs for these parameters were within their respective alert limits.
- Concentrations for all other parameters analysed were below the laboratory RDLs for groundwater sample BH4 and its associated field duplicate sample (DUP). Therefore, the RPDs could not be calculated.

No issues with laboratory analysis, sample shipping, sample preservation, or field sampling techniques that could have a material effect on the interpretation of the reported results were identified as part of this QA/QC program. Therefore, all groundwater analytical laboratory data are considered reliable.