City of Guelph

2010 Annual Groundwater Monitoring Report
Former IMICO Site
200 Beverley Street, Guelph, Ontario

Report

Environment

City of Guelph

2010 Annual Groundwater Monitoring Report
Former IMICO Site
200 Beverley Street, Guelph, Ontario.

Prepared by:

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Project Number:

60149110

Date:

April, 2012

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April 23, 2012

Colin Baker, P.Eng.
Environmental Engineer
Engineering Services
City of Guelph
1 Carden St.
Guelph, ON N1H 3A1

Dear Colin Baker:

Project No: **60149110**

Regarding: **2010 Annual Groundwater Monitoring Report**
Former IMICO Site, 200 Beverley Street, Guelph, ON

We are pleased to present you with the 2010 Annual Groundwater Monitoring Report for the former IMICO site located at 200 Beverley Street, Guelph, ON. This report includes results from groundwater level measurements recorded in March, June, October, and December, and groundwater sample results from monitoring events that occurred in June and October of 2010.

We trust that this report meets your requirements. Please contact us if you have any further questions.

Sincerely,
AECOM Canada Ltd.

Albanie Douglas, M.Sc., P.Geo.
Project Manager
Albanie.douglas@aecom.com

AT:xx
Encl.
cc:

Distribution List

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AECOM Signatures

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1. Introduction and Background

The City of Guelph retained AECOM to undertake groundwater monitoring activities throughout 2010 at the Former International Malleable Iron Company (IMICO) site (the Site) located at 200 Beverly Street, Guelph, Ontario (Figure 1). Currently the Site is owned by the City of Guelph. The site is approximately 5.2 ha (13 acres) in size and is currently inactive. Prior to 1989, the Site operated as a foundry. Since that time all structures have been decommissioned and demolished.

A preliminary site assessment and investigation was completed in 1989 and 1991 by Proctor & Redfern that identified several subsurface contaminants present at the Site (Proctor & Renfern, 1991a; Proctor & Renfern, 1991b). The report identified various metals, petroleum hydrocarbons (PHCs), volatile organic compounds (VOCs), and polynuclear aromatic hydrocarbons (PAHs) in soil and groundwater at concentrations above the Ministry of the Environment (MOE) standards.

A hydrogeologic site investigation completed by Gartner Lee Limited (now AECOM) in 1998 identified several locations where groundwater and soil concentrations exceeded the applicable standard for zinc, lead, PHCs, VOCs, and PAHs. Based on the findings of the 1998 investigation, additional boreholes were drilled, monitoring wells installed, hydraulic testing, and groundwater monitoring was completed at the western portion of 490 York Road in 2004. Results demonstrated that concentrations of trichloroethylene (TCE) and various petroleum hydrocarbons (PHCs) above the MOE standards continued to be present in the soil and groundwater at the Site (GLL, 2004). The report also concluded that the TCE concentrations found on Site were likely coming from the general vicinity of well nest OW30, located at 490 York Road.

A Phase I and Phase II Environmental Site Assessment, and a Remedial Action Plan (RAP) were completed in 2007 by Decommissioning Consulting Services Limited (DCS). The RAP recommended several potential remedial options, one of them included conducting a risk assessment (RA) for industrial/commercial/community use, and to sever the property to allow for more immediate usage where contamination is no longer present or that an RA determines to be acceptable.

Semi-annual groundwater monitoring and quarterly water levels have been obtained by AECOM since 1998. In 2010 the groundwater monitoring events occurred in March and October and groundwater levels were recorded in June and December. This report presents results from all groundwater monitoring that occurred in 2010.

2. Geologic Setting

The surficial geology of the Site is comprised of fill material that is approximately 1.4 m to 3.2 m in thickness and includes foundry sand and slag, underlain by native silty fine sand till, underlain by dolostone bedrock. The sand layer ranges in thickness from 0.5 m in the western portion of the property to 3.1 m in the southeastern portion of the property. The upper portion of the dolostone bedrock is considered to be highly fractured and therefore porous. The depth of bedrock ranges from 1.4 m (at OW2) to 3.2 m (OW18-II) below ground surface. The average hydraulic conductivity measured in the shallow monitoring wells ranges from 3.2×10^{-6} m/s to 2.5×10^{-4} m/s. The hydraulic conductivity for the monitoring wells screened in bedrock is approximately 5.0×10^{-6} m/s.

Monitoring wells installed at the Site are completed into two groundwater zones (shallow and deep) that appear to have differing groundwater chemistry. The shallow zone is composed of overburden and shallow, highly fractured bedrock. The deep zone is composed of deeper more competent bedrock at a depth of at least 1.5 m below grade.

3. Methods

Prior to commencing groundwater monitoring events and recording water levels, the monitoring wells were opened and allowed to equilibrate with atmospheric pressure. This was completed to ensure that water level measurements were representative of the hydraulic head in the respective wells. Groundwater and product levels were collected using an electronic interface level tape. The interface tape was decontaminated between each well with a liquinox and water solution, followed by methanol, and rinsed with distilled water. Groundwater monitoring occurred March 23 to 24 and October 6 to 7. Groundwater levels were also recorded June 6 and December 9, 2010.

Groundwater levels were measured from the top of the monitoring pipe, at all accessible monitoring wells at the Site, along the property boundary, on Beverly Road, at 490 York Road, along the CP Railway, and on Simcoe Street. Groundwater levels were all converted to an elevation in meters above sea level (masl) using reference elevations. The following monitoring wells were sampled:

Shallow Monitoring Wells: OW2, OW6, OW9-I, OW10, OW11-I, OW12, OW16, OW18-I, OW19, OW22S, OW23S, OW24S, OW25, OW26S, OW27S, OW28S, OW29S, OW30S.

Deep Monitoring Wells: OW9-II, OW11-II, OW13, OW14, OW18-II, OW22D, OW23-D, OW24D, OW25, OW26D, OW27D, OW28D, OW29D, OW30D.

Groundwater samples were collected from each well using dedicated inertial lift valves. During the sampling event, a water quality instrument was used to measure water quality parameters that included pH, specific conductivity and temperature following every well volume that was purged. A groundwater sample was collected following the removal of three well volumes. All purge water was stored in labelled drums for subsequent handling by the City of Guelph.

AECOM staff wore nitrile gloves throughout each sampling event and changed the gloves between each monitoring well location.

Groundwater samples were submitted to MAXXAM Analytics (MAXXAM) under a chain of custody (CoC) protocol and analyzed for parameters listed in Table B-1. Groundwater chemistry results were compared to the standards published in Ontario Regulation 153/09 *Table 2 (potable groundwater), in an Industrial/Commercial/Community property use with coarse textured soils* (herein referred to as the “applicable standard”).

A composite waste water sample was collected and submitted after the completion of the March 2010 sampling event to be compared to the City of Guelph Sanitary Sewer By Law. Results from the composite waste water sampled were above the Guelph Sanitary Sewer By Law limits, therefore the water was removed from the site by a certified waste hauler for both monitoring events under the City of Guelph Generator Number ON3323094.

4. Monitoring Results

4.1 Groundwater Flow

Regional topography is characterized by broad, oval-shaped rolling hills separated by poorly drained valleys, with local relief, generally less than 15 m, towards the south. The Site is approximately 800 m north of the Eramosa River and the topography gradually slopes towards the river.

Groundwater contour maps were generated for shallow and deep groundwater zones for each event. Groundwater and interface levels are presented in Table A-1. Potentiometric contour maps representing groundwater flow at the Site are included in Figure 2 and 3. Groundwater flow in the shallow aquifer continues to be in a south to south-western direction, towards the Eramosa River. The groundwater elevations recorded in the deep monitoring wells are essentially the same across the Site, indicating there is little to no horizontal groundwater flow in the deep bedrock aquifer. These findings are similar to previous years.

Interface measurements were detected as a light non-aqueous phase liquid (LNAPL) at OW23S, and ranged between 0.06 m to 0.15 m thickness for the four monitoring events in 2010.

Vertical groundwater gradients are downward across the study area. A 2004 report by Gartner Lee Limited indicated that Holody Electro Plating is located approximately 500 m to the northeast has a large capacity industrial well, and the water takings (which is currently unknown) may locally influence groundwater flow in the deep bedrock zone.

4.2 Groundwater Chemistry Results

Groundwater chemistry results are included in Appendix B from the 2010 monitoring events. Historical concentration figures for selected metals, volatile organic compounds (VOCs) polyaromatic hydrocarbons (PAHs), petroleum hydrocarbons (PAHs), and polychlorinated biphenyls (PCBs) are presented in Figures 4 through 8.

4.2.1 Inorganic Parameters

Inorganic groundwater results were within the applicable standard during the 2010 monitoring events with the exception of sodium, zinc, and chloride at certain locations.

Chloride concentrations were above the applicable standard at OW29S (1,490 mg/L) and OW30S (1,610 mg/L) in March 2010. Elevated chloride concentrations are likely attributed to road salt applied to the roads in the area.

Concentrations of sodium were above the applicable standard of 490 mg/L in March 2010 at OW29S (780 mg/L) and OW30S (820 mg/L), and are likely a result of road salt application. Historically OW29S and OW30S have occasionally had concentrations of sodium above the applicable standard.

Zinc concentrations were above the applicable standard of 1,100 µg/L at the following locations in March and September 2010, respectively;

- OW6 (3,500 µg/L, 2,300 µ/L)
- OW13 (1,700 µg/L, 1,900 µg/L)
- OW14 (1,300 µg/L, 3,700 µg/L)
- OW18-I (1,300 µg/L, 1,600 µg/L)
- OW19 (4,500 µg/L, 3,300 µg/L)
- OW22S (2,600 µg/L March 2010)

The inorganic results were consistent with 2009 data.

Historically exceedances of lead have been reported at OW16 and OW9-II, however concentrations were below the applicable standard in 2010. Arsenic was reported to be above the applicable standard during initial investigations in 1998, however concentrations have been at or near the laboratory detection limit for over 5 years. All other monitoring wells sampled for inorganic parameters during the program were below the applicable standard.

4.2.2 Volatile Organic Compounds (VOCs)

VOCs of concern at, and within the vicinity of, the Site are trichloroethylene (TCE) and its respective degradation products including *cis-1,2*-dichloroethylene (cis-1,2-DCE), 1,1-dichloroethylene (1,1-DCE) and vinyl chloride (VC). 1,1,1-TCA has also been detected above the applicable standard.

TCE concentrations were above the applicable standard at several monitoring wells primarily located at the eastern portion of the Site and 490 York Street. Monitoring wells that exceeded the applicable standard for TCE in March and September 2010, respectively included;

- OW18-I (20 µg/L, 14 µg/L)
- OW23D (2 µg/L, 1.9 µg/L)
- OW24D (2,700 µg/L, 3,500 µg/L)
- OW28S (7.3 µg/L, 140 µg/L)
- OW29S (130 µg/L, 200 µg/L)
- OW30S (830 µg/L, 820 µg/L)
- OW18-II (2.7 µg/L, 2.1 µg/L)
- OW24S (85 µg/L, 78 µg/L)
- OW27S (10 µg/L, 12 µg/L)
- OW28D (13 µg/L, 27 µg/L)
- OW29D (1,000 µg/L, 1,100 µg/L)
- OW30D (4,900 µg/L, 6,100 µg/L)

TCE concentrations for selected monitoring wells are depicted in Appendix B. TCE concentrations in 2010 were generally higher at deep monitoring wells than at shallow locations. Also, TCE at the shallow monitoring wells generally appears to decreasing in concentration. The presence of downward gradients at the eastern portion of the Site along with the trend of increasing TCE concentration in the deeper (bedrock) aquifer suggests that TCE is migrating from the shallow aquifer to the deeper (bedrock) aquifer in this area of the Site.

The highest concentrations of TCE observed in 2010 were 6,000 µg/L at OW30D (located at 490 York Road) and 3,500 µg/L at OW24D (located at the eastern portion of the Site). The deeper zone at the eastern portion of the Former IMICO Site groundwater flows northeast (from OW24D to OW30D), and historical concentrations of TCE were the highest at well nest OW30.

1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, and VC were detected in several monitoring wells across the study area above the applicable standard at locations that historically had detections of TCE or are located downgradient of monitoring wells with detections of TCE. Dechlorination of TCE can occur by anaerobic biodegradation and abiotic degradation, as described by Wiedemeier *et al.* (1998) and Vogel *et al.,*(1987). Primary indicators of reductive dechlorination are the detection of degradation products of TCE which include DCE isomers, and VC. These compounds will degrade to final products including ethene, ethanol, and/or carbon dioxide. The presence of compounds such as 1,1-DCE, cis-1,2-DCE and VC indicate that degradation of TCE is occurring at the Site.

1,1,1-TCA was only detected at OW12 in October 2010 at a concentration of 13 µg/L (May 2010) and 31 µg/L (October 2010), which is below the applicable standard.

Overall VOC concentrations were consistent with September 2009 results. Current and historical TCE and 1,1,1-TCA, and their primary degradation products are presented in Figure 5. Analytical results from 2010 are included in Appendix B.

Time concentration plots for selected monitoring wells including OW18, OW24, OW28, OW29 and OW30 are presented in Appendix B. Concentrations of TCE have stabilized over time at OW18-I, OW18-II, OW24S, OW28S, OW29S, OW29D, OW30S. At OW24D TCE concentrations overall have decreased since 2005, and were higher during the fall monitoring events in 2009 and 2010. At OW28S, TCE concentrations ranged from 13µg/L to 140 µg/L in 2010, and concentrations were historically highest during the fall events since 2008.

Benzene, methlyene chloride and xylene have also historically been detected above the applicable standard, however concentrations have been at or near the laboratory detection limit across the Site since 2005.

4.2.3 Polyaromatic Hydrocarbons (PAHs)

PAHs were below the applicable standard at most monitored locations at and within the vicinity of the Site in 2010. However, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, fluoranthene and indeno(1,2,3-cd)pyrene at OW30S were detected above the applicable standard, in March 2010. At OW29S benzo(k)fluoranthene was above the applicable standard also in March 2010. Benzo(a)pyrene was detected above the applicable standard of 0.01 μg/L at the following locations:

- OW28S (0.02 µg/L March 2010)
- OW29S (0.19 µg/L March 2010)
- OW30S (0.72 µg/L March 2010, 0.04 µg/L October 2010)
- OW30D (0.02 µg/L October 2010)

Concentrations of PAHs at monitored locations of the Site have been decreasing since 2005. A summary of current and historical PAH concentrations is presented in Figure 6, and Appendix B.

4.2.4 Petroleum Hydrocarbon Compounds (PHC)

A summary of current and historical PHC concentrations are provided in Figure 7. Most monitoring wells sampled for PHCs were below the reportable detection limit, results are included in Appendix B. OW25 had concentrations of F2 at 190 μg/L and F3 at 3,300 μg/L which are above the applicable standard of 150 µg/L and 500 µg/L, respectively. OW30D had concentrations of F1 and F1-BTEX at 1,000 μg/L, above the applicable standard of 750 µg/L. OW29D, OW30S and OW24D had detectable concentrations above the laboratory reportable detection limit of F1, F1-BTEX at the southeastern portion of the Site and at the 495 York Road property, which is consistent with historical concentrations.

4.2.5 Polychlorinated Biphenyls (PCBs)

PCBs have been sampled at OW29S and OW29D annually, due to historical detections of PCBs. In 2010, PCBs were below the laboratory detection limit at both locations, and have been below the detection limit since around 2005. PCBs appear to be no longer a contaminant of concern at the Site.

4.3 QA/QC

In order to assess field techniques and/or laboratory precision, blind duplicate samples were collected during each groundwater monitoring event. The relative percentage difference (RPD) between the samples collected for each monitoring well were calculated and were within +/- 40% and therefore AECOM considers there to be good reliability in the data. Results for RPD on duplicates collected in 2010 are presented in Table B-2.

At each monitoring event a water sample was prepared by MAXXAM to determine if samples may be impacted during travel to the lab (trip blank). The trip blank was analyzed for VOCs and no detectable concentrations resulted.

5. Conclusions

The following was concluded from results during the 2010 groundwater monitoring at and within the vicinity of the Site;

a) Consistent with historical data, shallow groundwater flow direction is in a south to southwestern direction from the northern portion of the property. Deep groundwater flow direction is slightly to the north-northeast, however gradients are near zero. Vertical hydraulic gradients in the shallow zone are generally downward.

b) Zinc concentrations continue to be above the applicable standard at monitoring wells towards the west portion of the Site. Other metals including arsenic, and lead are below the reportable detection limit and are no longer contaminants of concern at the Site.

c) Overall TCE concentrations appear to be decreasing where concentrations are detected. The highest TCE concentrations were 6,000 µg/L at OW30D (located at 490 York Road) and 3,500 µg/L at OW24D (located at the eastern portion of the Site).

d) PAH concentrations were below the applicable standard at all wells located at the Site, except for four located at the 490 York Road property.

e) Five monitoring wells had PHC concentrations above the applicable standard located at the Site, and at the 490 York Road property.

f) PCB concentrations have been below the detection limit at monitored locations since 2005. PCBs are no longer a contaminant of concern at the Site.

6. Recommendations

AECOM recommends that the City of Guelph continue the semi-annual groundwater monitoring events in 2011.

Groundwater elevations should be collected semi-annual as compared to quarterly in 2010. This is recommended based on consistent groundwater elevation and flow trends from year to year.

The monitoring wells that AECOM recommends be abandoned and the rationale is provided in Table 2.

Table 1. Recommended Monitoring Wells for Decommissioning and Rational

Recommended for Decommissioning	Rational
• **OW14** • **OW4** • **OW13**	• OW9-I and OW9-II could be used as a representative well nest within 10 m of the listed wells to monitor groundwater chemistry in this area of the site
• **OW10** • **OW07-35**	• OW26S and OW26D are currently monitored and near OW10 and OW07-35. AECOM believes that monitoring OW26S and OW26D should sufficiently monitor groundwater at the southern portion of the Site.
• **OW07-34S**	• OW25 is currently and historically has been monitored regularly and is near OW07-34S. OW25 and OW07-34D could be paired.
• **OW11-I** • **OW11-II** • **OW12** • **OW5** • **OW15**	• Groundwater chemistry indicates that contamination is not present at the eastern portion of the Former IMICO Site. OW16 is and historically has been monitored and is representative of the shallow groundwater in the eastern portion of the Site
• **OW17** • **OW07-38** • **OW07-31**	• Monitoring wells are currently not monitored and OW2 is considered to provide representative data for the northern portion of the Site.
• **OW07-37** • **OW07-33** • **OW07-32**	• OW3-I and OW3-II would be suitable to monitor groundwater within the center of the Site, contingent on assessing their current condition since they have not been monitored recently.

During groundwater monitoring activities during 2010 AECOM noted the following monitoring wells that require maintenance:

- OW5, OW07-36S, OW07-36D, OW30S, and OW30D.

7. References

AECOM 2008:
Groundwater Monitoring Report- Former IMICO Site June and September 2008 Groundwater Monitoring Events, November 2008.

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Groundwater Monitoring Report – Former IMICO Site February and June, 2009 Groundwater Monitoring Events. August 2009/

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Gartner Lee Limited (GLL), 1998;
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Groundwater Monitoring Report – Former IMICO Site July and September 2004 Groundwater Monitoring Events, October 2004.

Gartner Lee Limited (GLL) 2005;
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Interim Groundwater Monitoring Report – Former IMICO Site December 2006, March and June 2007 Groundwater Monitoring Events, June 2007.

Gartner Lee Limited (GLL) 2008a;
Interim Groundwater Monitoring Report – Former IMICO site December 2007 and March 2008 Groundwater Monitoring Events. April 2008.

Proctor & Renfern Limited, 1991a;
Environmental Investigation International Malleable Iron Company 200 Beverley Street, Guelph, Ontario, June 10, 1991.

Proctor & Renfern Limited, 1991b;
Environmental Investigation International Malleable Iron Company 200 Beverley Street, Guelph, Ontario, June 10, 1991.

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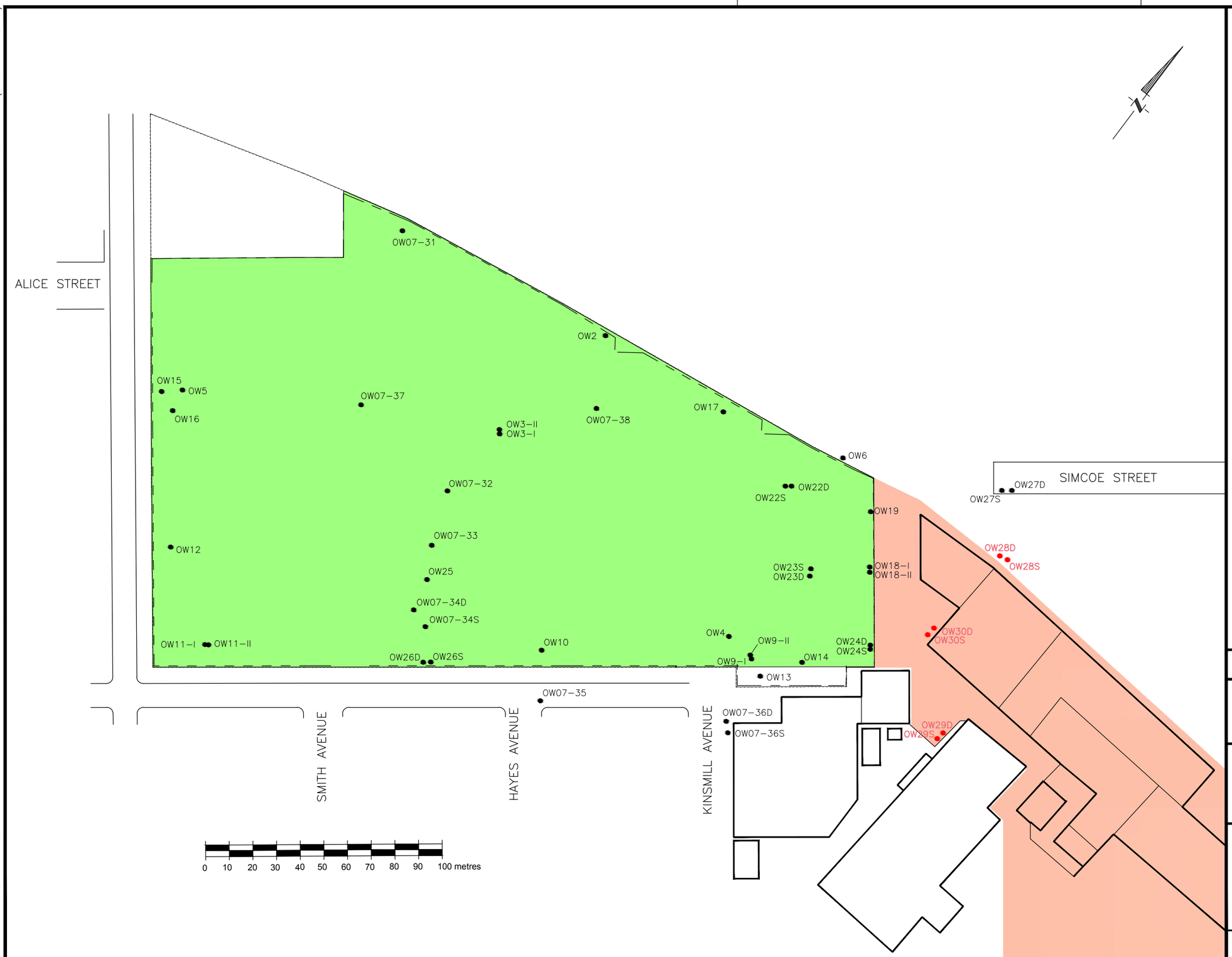

Legend

- Fence
- Property Line
- Former IMICO Foundary Site
- OW27S Monitoring Well
- 490 York Rd Property
- OW28S Monitoring Well on 490 York Property

AECOM

Former IMICO Site
Guelph, Ontario

Site Location Map

PROJECT NUMBER	DATE	FIGURE
60149110	April 2012	1

B SIZE 11" x 17" (279.4mm x 431.8mm)

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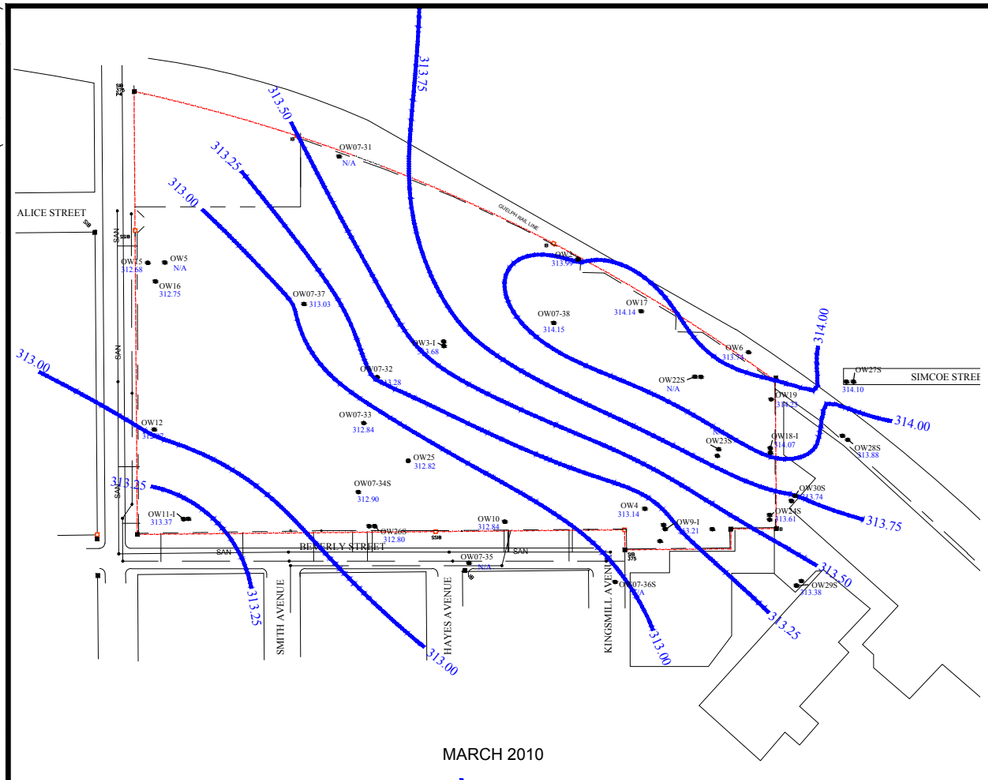

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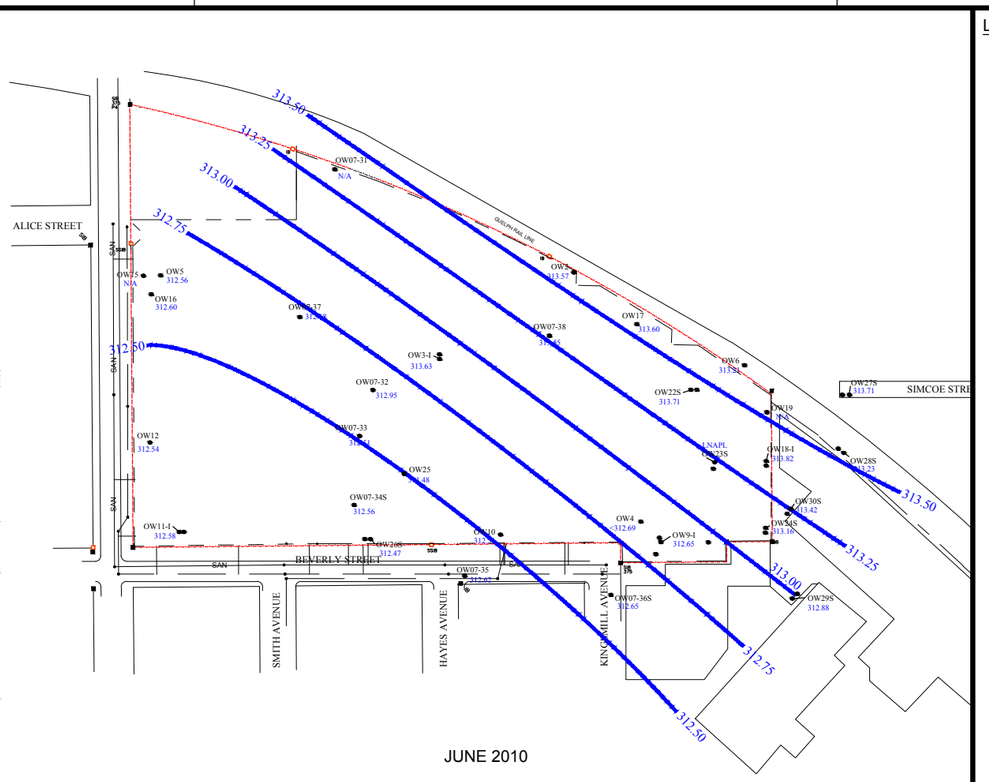

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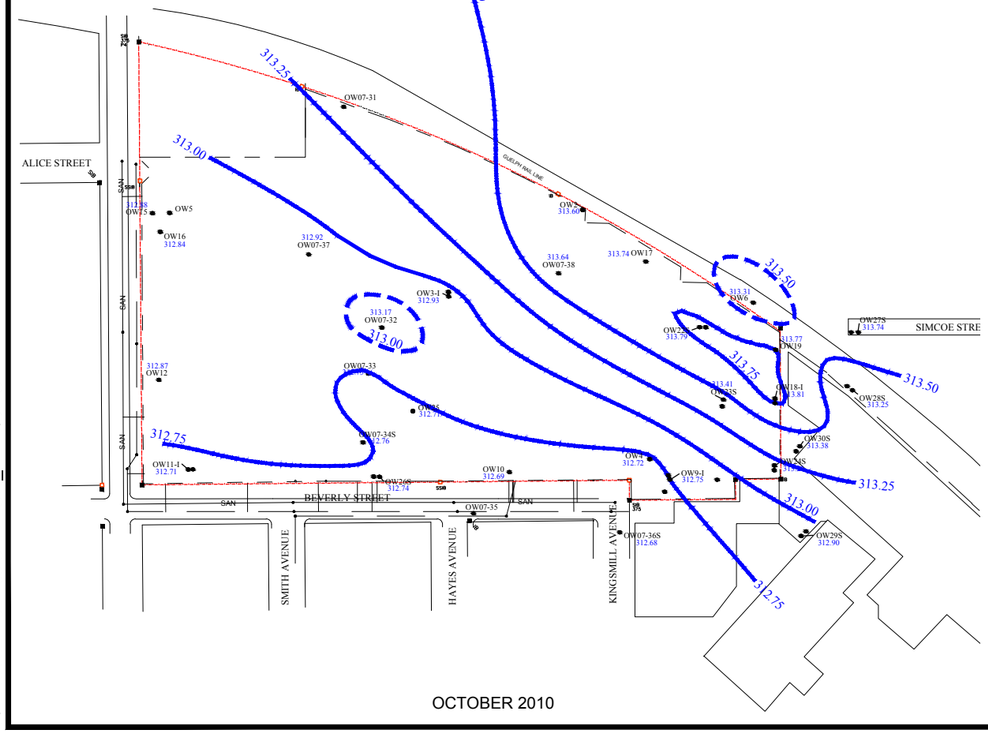

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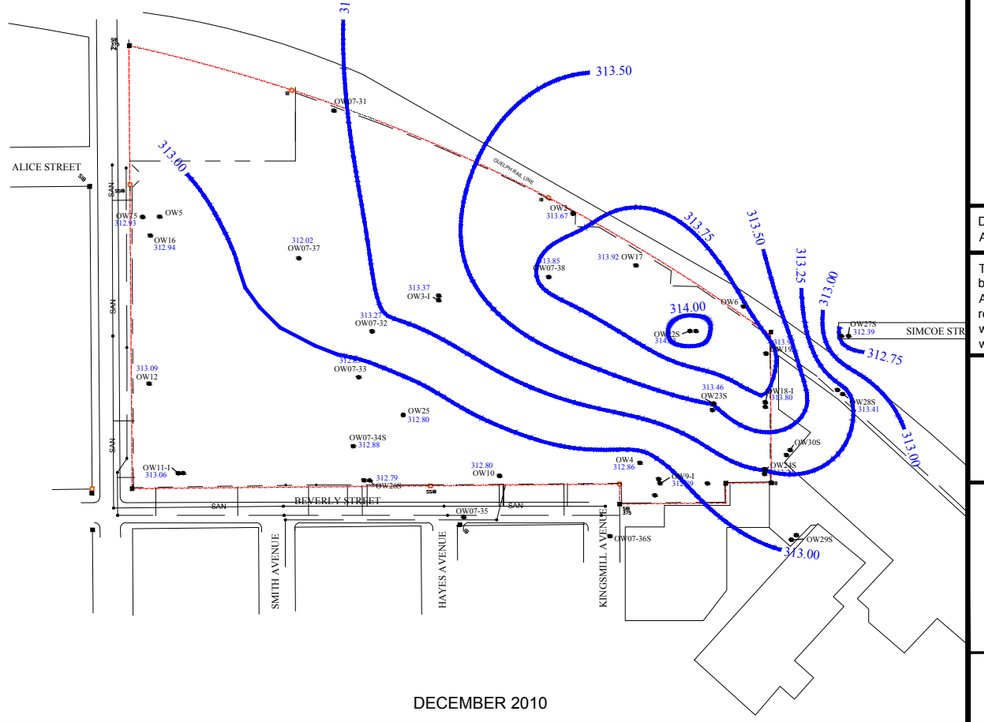

DECEMBER 2010

Legend

- FENCE
- PROPERTY LINE
- STORM SEWER
- SAN — SANITARY SEWER
- OW12 — MONITORING WELL
- BH8 — BOREHOLE
- SIB — STANDARD IRON BAR
- TP5 — TEST PIT
- IRON BAR
- MANHOLE
- 312.91 — WATER LEVEL (m ASL)
- 312.91 — INFERRED GROUNDWATER CONTOUR
- INTERPRETED GROUNDWATER CONTOUR
- N/A — GROUNDWATER ELEVATION NOT AVAILABLE

N

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DO NOT SCALE THIS DOCUMENT.
ALL MEASUREMENTS MUST BE OBTAINED FROM STATED DIMENSIONS.

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Shallow Groundwater Contour Maps 2010

Former IMICO Site

PROJECT NUMBER	DATE	FIGURE
60149110	April 2012	2

B SIZE 11" x 17" (279.4mm x 431.8mm)

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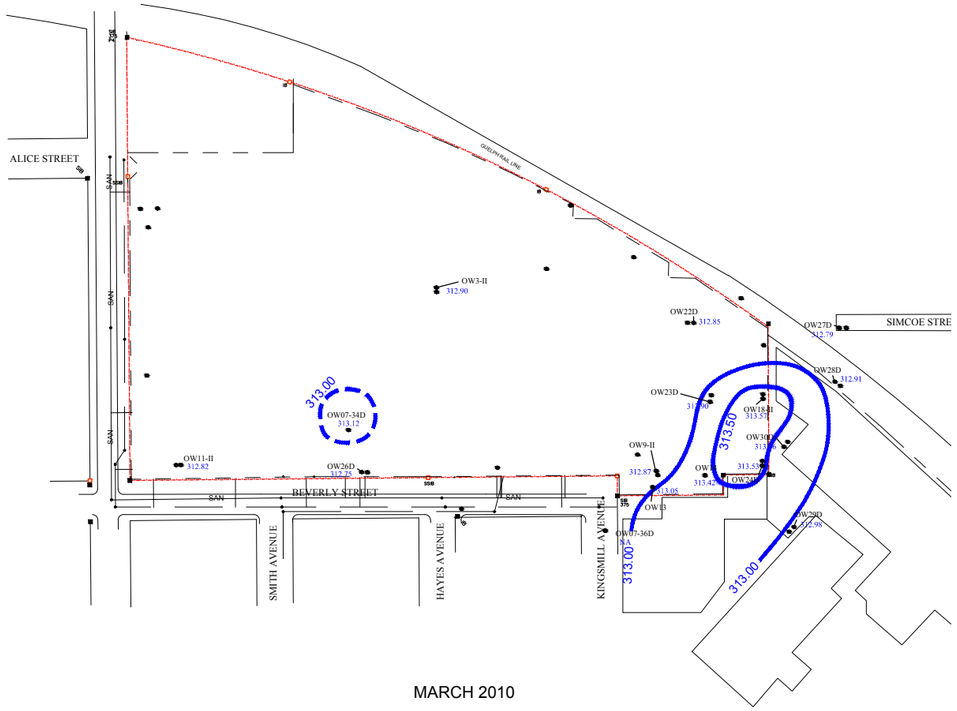

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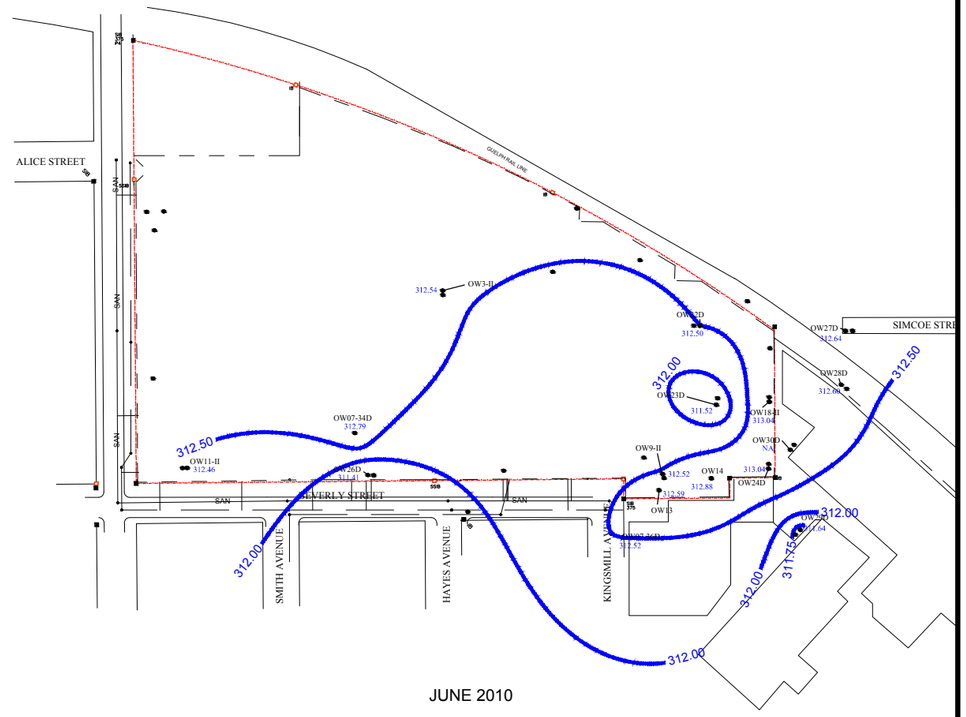

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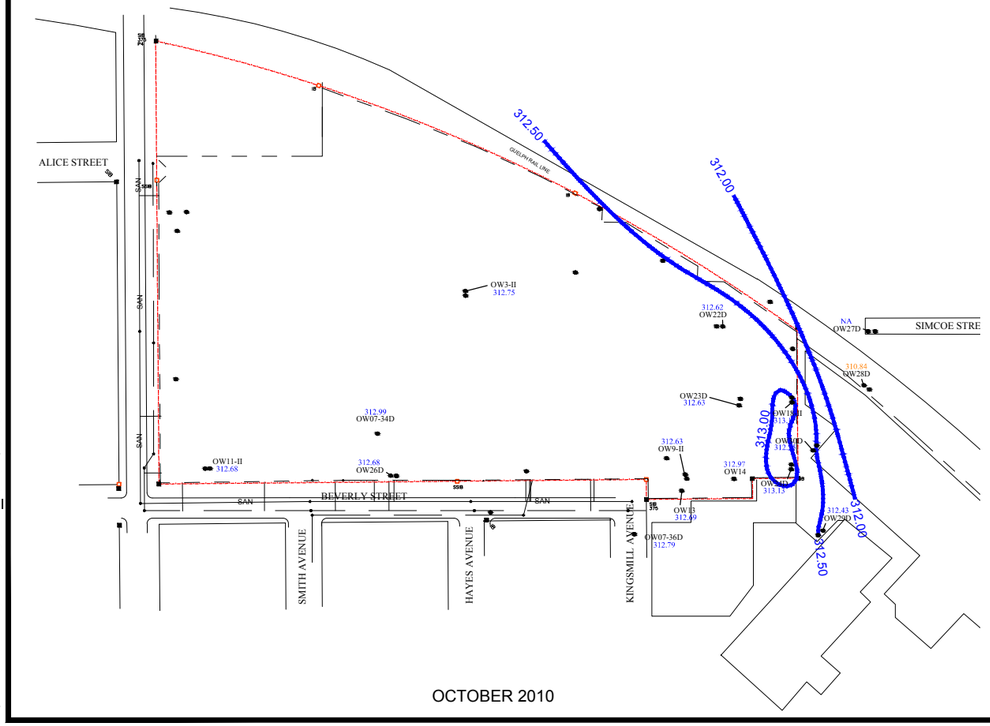
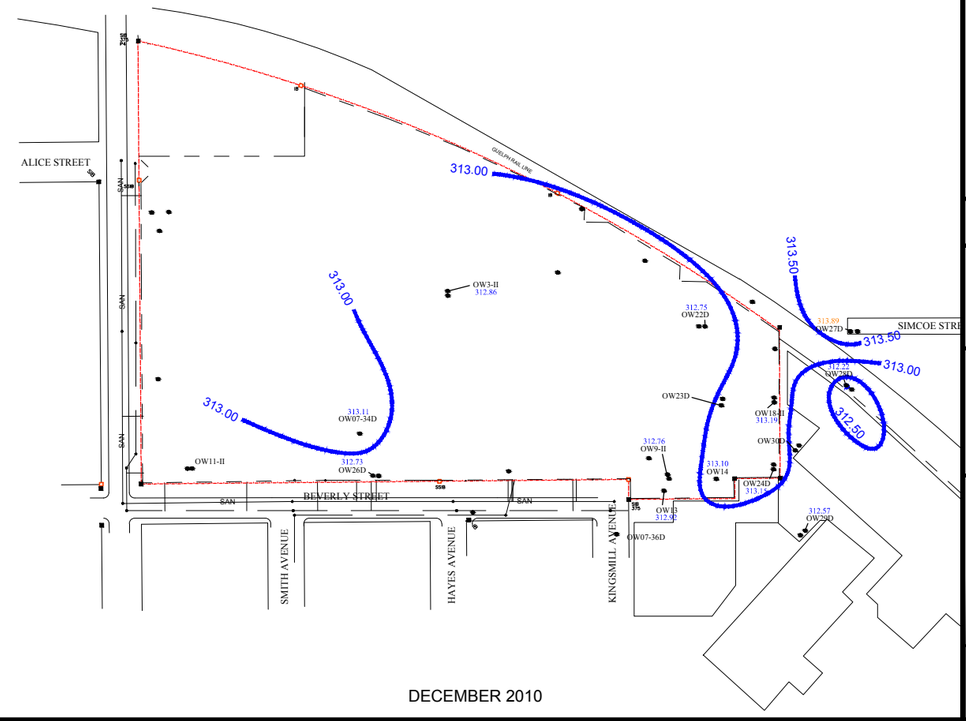


OCTOBER 2010



DECEMBER 2010

Legend

- FENCE
- PROPERTY LINE
- STORM SEWER
- SAN — SANITARY SEWER
- OW12 — MONITORING WELL
- BH8 — BOREHOLE
- SIB — STANDARD IRON BAR
- TP5 — TEST PIT
- IRON BAR
- MANHOLE
- 312.91 — WATER LEVEL (m ASL)
- 312.91 — INFERRED GROUNDWATER CONTOUR
- INTERPRETED GROUNDWATER CONTOUR
- N/A — GROUNDWATER ELEVATION NOT AVAILABLE
- 313.89 — WATER LEVEL NOT CONSISTENT WITH HISTORICAL VALUES

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0 1.5 3 6 9 12 m

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DO NOT SCALE THIS DOCUMENT.
ALL MEASUREMENTS MUST BE OBTAINED FROM STATED DIMENSIONS.

AECOM

Deep Groundwater Contour Maps 2010

Former IMICO Site

PROJECT NUMBER	DATE	FIGURE
60149110	April 2012	3

D SIZE: 24" x 36" (609.6mm x 914.4mm)

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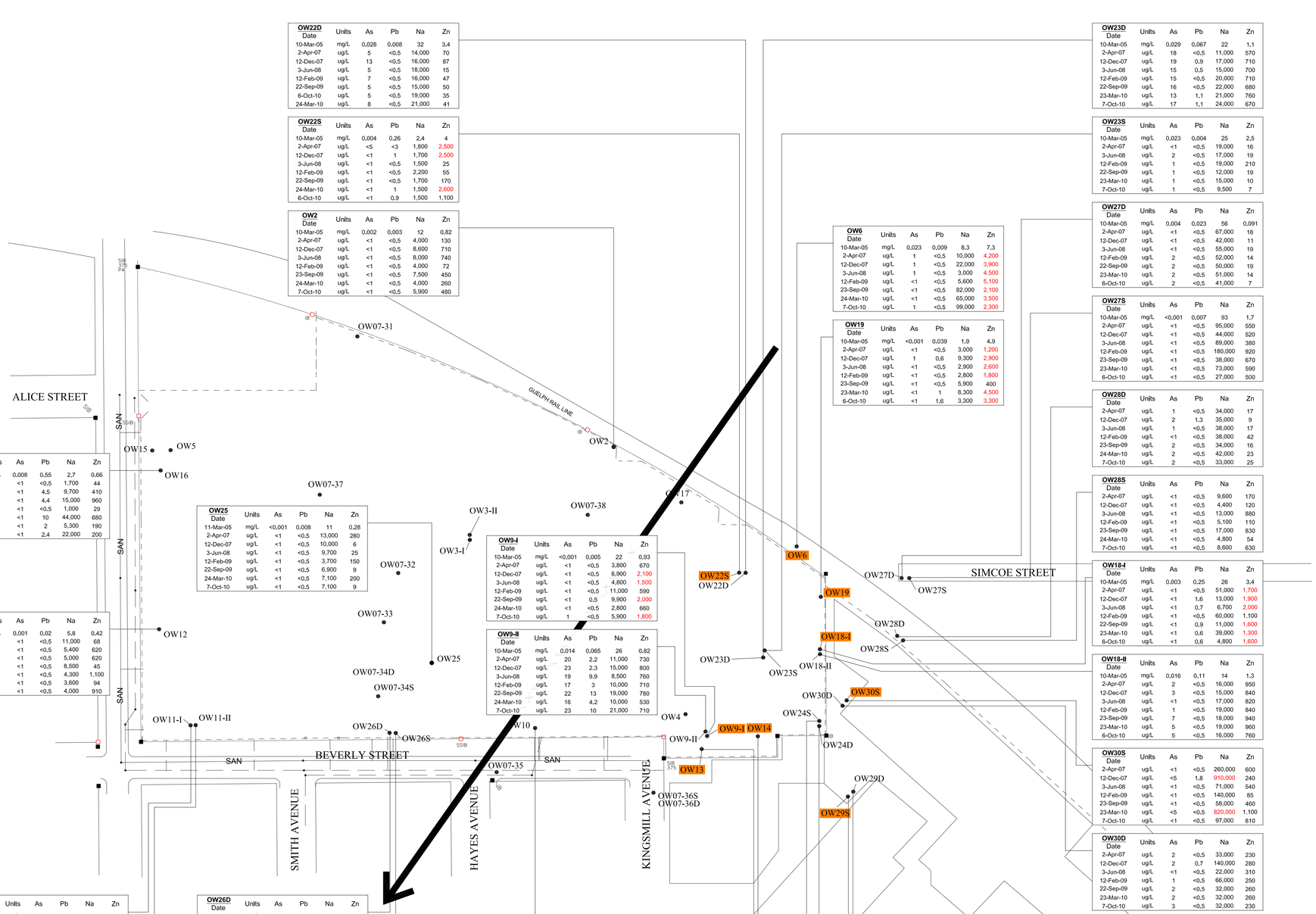
FILE NAME: 60149110_SUMMARYHISTORICALDWG BY:---



OW22D Date	Units	As	Pb	Na	Zn
10-Mar-05	mg/L	0,028	0,008	32	3,4
2-Apr-07	ug/L	5	<0,5	14,000	70
12-Dec-07	ug/L	13	<0,5	16,000	87
3-Jun-08	ug/L	5	<0,5	18,000	15
12-Feb-09	ug/L	7	<0,5	16,000	47
22-Sep-09	ug/L	5	<0,5	15,000	50
6-Oct-10	ug/L	5	<0,5	19,000	35
24-Mar-10	ug/L	8	<0,5	21,000	41

OW22S Date	Units	As	Pb	Na	Zn
10-Mar-05	mg/L	0,004	0,26	2,4	4
2-Apr-07	ug/L	<5	<3	1,800	2,500
12-Dec-07	ug/L	<1	1	1,700	2,500
3-Jun-08	ug/L	<1	<0,5	1,500	25
12-Feb-09	ug/L	<1	<0,5	2,200	55
22-Sep-09	ug/L	<1	<0,5	1,700	170
24-Mar-10	ug/L	<1	1	1,500	2,600
6-Oct-10	ug/L	<1	0,9	1,500	1,100

OW2 Date	Units	As	Pb	Na	Zn
10-Mar-05	mg/L	0,002	0,003	12	0,82
2-Apr-07	ug/L	<1	<0,5	4,000	130
12-Dec-07	ug/L	<1	<0,5	8,600	710
3-Jun-08	ug/L	<1	<0,5	8,000	740
12-Feb-09	ug/L	<1	<0,5	4,000	72
23-Sep-09	ug/L	<1	<0,5	7,500	450
24-Mar-10	ug/L	<1	<0,5	4,000	260
7-Oct-10	ug/L	<1	<0,5	5,900	480

OW16 Date	Units	As	Pb	Na	Zn
11-Mar-05	mg/L	0,008	0,55	2,7	0,66
2-Apr-07	ug/L	<1	<0,5	1,700	44
12-Dec-07	ug/L	<1	4,5	9,700	410
3-Jun-08	ug/L	<1	4,4	15,000	960
12-Feb-09	ug/L	<1	<0,5	1,000	29
22-Sep-09	ug/L	<1	10	44,000	680
23-Mar-10	ug/L	<1	2	5,300	190
7-Oct-10	ug/L	<1	2,4	22,000	200

OW25 Date	Units	As	Pb	Na	Zn
11-Mar-05	mg/L	<0,001	0,008	11	0,28
2-Apr-07	ug/L	<1	<0,5	13,000	280
12-Dec-07	ug/L	<1	<0,5	10,000	6
3-Jun-08	ug/L	<1	<0,5	9,700	25
12-Feb-09	ug/L	<1	<0,5	3,700	150
22-Sep-09	ug/L	<1	<0,5	6,900	9
24-Mar-10	ug/L	<1	<0,5	7,100	200
7-Oct-10	ug/L	<1	<0,5	7,100	9

OW12 Date	Units	As	Pb	Na	Zn
11-Mar-05	mg/L	0,001	0,02	5,8	0,42
2-Apr-07	ug/L	<1	<0,5	11,000	68
12-Dec-07	ug/L	<1	<0,5	5,400	620
3-Jun-08	ug/L	<1	<0,5	5,000	620
12-Feb-09	ug/L	<1	<0,5	8,500	45
22-Sep-09	ug/L	<1	<0,5	4,300	1,100
23-Mar-10	ug/L	<1	<0,5	3,600	94
7-Oct-10	ug/L	<1	<0,5	4,000	910

OW9-I Date	Units	As	Pb	Na	Zn
10-Mar-05	mg/L	<0,001	0,005	22	0,93
2-Apr-07	ug/L	<1	<0,5	3,800	670
12-Dec-07	ug/L	<1	<0,5	6,900	2,100
3-Jun-08	ug/L	<1	<0,5	4,800	1,500
12-Feb-09	ug/L	<1	<0,5	11,000	590
22-Sep-09	ug/L	<1	0,5	9,900	2,000
24-Mar-10	ug/L	<1	<0,5	2,800	660
7-Oct-10	ug/L	1	<0,5	5,900	1,800

OW9-II Date	Units	As	Pb	Na	Zn
10-Mar-05	mg/L	0,014	0,065	26	0,82
2-Apr-07	ug/L	20	2,2	11,000	730
12-Dec-07	ug/L	23	2,3	15,000	800
3-Jun-08	ug/L	19	9,9	8,500	760
12-Feb-09	ug/L	17	3	10,000	710
22-Sep-09	ug/L	22	13	19,000	780
24-Mar-10	ug/L	16	4,2	10,000	530
7-Oct-10	ug/L	23	10	21,000	710

OW6 Date	Units	As	Pb	Na	Zn
10-Mar-05	mg/L	0,023	0,009	8,3	7,3
2-Apr-07	ug/L	1	<0,5	10,000	4,200
12-Dec-07	ug/L	1	<0,5	22,000	3,900
3-Jun-08	ug/L	1	<0,5	3,000	4,500
12-Feb-09	ug/L	<1	<0,5	5,600	5,100
23-Sep-09	ug/L	<1	<0,5	82,000	2,100
24-Mar-10	ug/L	<1	<0,5	65,000	3,500
7-Oct-10	ug/L	1	<0,5	99,000	2,300

OW19 Date	Units	As	Pb	Na	Zn
10-Mar-05	mg/L	<0.001	0,039	1,9	4,9
2-Apr-07	ug/L	<1	<0,5	3,000	1,200
12-Dec-07	ug/L	1	0,6	9,300	2,900
3-Jun-08	ug/L	<1	<0,5	2,900	2,600
12-Feb-09	ug/L	<1	<0,5	2,800	1,800
23-Sep-09	ug/L	<1	<0,5	5,900	400
23-Mar-10	ug/L	<1	1	8,300	4,500
6-Oct-10	ug/L	<1	1,6	3,300	3,300

OW23D Date	Units	As	Pb	Na	Zn
10-Mar-05	mg/L	0,029	0,067	22	1,1
2-Apr-07	ug/L	18	<0,5	11,000	570
12-Dec-07	ug/L	19	0,9	17,000	710
3-Jun-08	ug/L	15	0,5	15,000	700
12-Feb-09	ug/L	15	<0,5	20,000	710
22-Sep-09	ug/L	16	<0,5	22,000	680
23-Mar-10	ug/L	13	1,1	21,000	760
7-Oct-10	ug/L	17	1,1	24,000	670

OW23S Date	Units	As	Pb	Na	Zn
10-Mar-05	mg/L	0,023	0,004	25	2,5
2-Apr-07	ug/L	<1	<0,5	19,000	16
3-Jun-08	ug/L	2	<0,5	17,000	19
12-Feb-09	ug/L	1	<0,5	19,000	210
22-Sep-09	ug/L	1	<0,5	12,000	19
23-Mar-10	ug/L	1	<0,5	15,000	10
7-Oct-10	ug/L	1	<0,5	9,500	7

OW27D Date	Units	As	Pb	Na	Zn
10-Mar-05	mg/L	0,004	0,023	56	0,091
2-Apr-07	ug/L	<1	<0,5	67,000	18
12-Dec-07	ug/L	<1	<0,5	42,000	11
3-Jun-08	ug/L	<1	<0,5	55,000	19
12-Feb-09	ug/L	2	<0,5	52,000	14
22-Sep-09	ug/L	2	<0,5	50,000	19
23-Mar-10	ug/L	2	<0,5	51,000	14
6-Oct-10	ug/L	2	<0,5	41,000	7

OW27S Date	Units	As	Pb	Na	Zn
10-Mar-05	mg/L	<0,001	0,007	93	1,7
2-Apr-07	ug/L	<1	<0,5	95,000	550
12-Dec-07	ug/L	<1	<0,5	44,000	520
3-Jun-08	ug/L	<1	<0,5	89,000	380
12-Feb-09	ug/L	<1	<0,5	180,000	920
23-Sep-09	ug/L	<1	<0,5	38,000	670
23-Mar-10	ug/L	<1	<0,5	73,000	590
6-Oct-10	ug/L	<1	<0,5	27,000	500

OW28D Date	Units	As	Pb	Na	Zn
2-Apr-07	ug/L	1	<0,5	34,000	17
12-Dec-07	ug/L	2	1,3	35,000	9
3-Jun-08	ug/L	1	<0,5	38,000	17
12-Feb-09	ug/L	<1	<0,5	38,000	42
23-Sep-09	ug/L	2	<0,5	34,000	16
24-Mar-10	ug/L	2	<0,5	42,000	23
7-Oct-10	ug/L	2	<0,5	33,000	25

OW28S Date	Units	As	Pb	Na	Zn
2-Apr-07	ug/L	<1	<0,5	9,600	170
12-Dec-07	ug/L	<1	<0,5	4,400	120
3-Jun-08	ug/L	<1	<0,5	13,000	880
12-Feb-09	ug/L	<1	<0,5	5,100	110
23-Sep-09	ug/L	<1	<0,5	17,000	830
24-Mar-10	ug/L	<1	<0,5	4,800	54
7-Oct-10	ug/L	<1	<0,5	8,600	630

OW18-I Date	Units	As	Pb	Na	Zn
10-Mar-05	mg/L	0,003	0,25	26	3,4
2-Apr-07	ug/L	<1	<0,5	51,000	1,700
12-Dec-07	ug/L	<1	1,6	13,000	1,900
3-Jun-08	ug/L	<1	0,7	6,700	2,000
12-Feb-09	ug/L	<1	<0,5	60,000	1,100
22-Sep-09	ug/L	<1	0,9	11,000	1,600
23-Mar-10	ug/L	<1	0,6	39,000	1,300
6-Oct-10	ug/L	<1	0,6	4,800	1,600

OW18-II Date	Units	As	Pb	Na	Zn
10-Mar-05	mg/L	0,016	0,11	14	1,3
2-Apr-07	ug/L	2	<0,5	16,000	950
12-Dec-07	ug/L	3	<0,5	15,000	840
3-Jun-08	ug/L	<1	<0,5	17,000	820
12-Feb-09	ug/L	1	<0,5	19,000	840
23-Sep-09	ug/L	7	<0,5	18,000	940
23-Mar-10	ug/L	5	<0,5	19,000	960
6-Oct-10	ug/L	5	<0,5	16,000	760

OW30S Date	Units	As	Pb	Na	Zn
2-Apr-07	ug/L	<1	<0,5	260,000	600
12-Dec-07	ug/L	<5	1,8	910,000	240
3-Jun-08	ug/L	<1	<0,5	71,000	540
12-Feb-09	ug/L	<1	<0,5	140,000	85
23-Sep-09	ug/L	<1	<0,5	58,000	460
23-Mar-10	ug/L	<5	<0,5	820,000	1,100
7-Oct-10	ug/L	<1	<0,5	97,000	810

OW30D Date	Units	As	Pb	Na	Zn
2-Apr-07	ug/L	2	<0,5	33,000	230
12-Dec-07	ug/L	2	0,7	140,000	280
3-Jun-08	ug/L	<1	<0,5	22,000	310
12-Feb-09	ug/L	1	<0,5	66,000	250
22-Sep-09	ug/L	2	<0,5	32,000	260
23-Mar-10	ug/L	2	<0,5	32,000	260
7-Oct-10	ug/L	3	<0,5	32,000	230

OW11-I Date	Units	As	Pb	Na	Zn
11-Mar-05	mg/L	0,001	0,11	5,7	0,19
2-Apr-07	ug/L	<1	1,6	11,000	62
12-Dec-07	ug/L	<1	1,4	4,800	250
3-Jun-08	ug/L	<1	1	3,300	120
12-Feb-09	ug/L	<1	0,9	6,800	76
22-Sep-09	ug/L	<1	1,3	3,700	130
24-Mar-10	ug/L	<1	1,1	4,900	57
6-Oct-10	ug/L	<1	1	3,400	180

OW11-II Date	Units	As	Pb	Na	Zn
11-Mar-05	mg/L	0,005	0,46	9	0,72
2-Apr-07	ug/L	<1	<0,5	7,700	490
12-Dec-07	ug/L	<1	3,8	34,000	440
3-Jun-08	ug/L	<1	1,8	4,200	440
12-Feb-09	ug/L	<1	1,4	15,000	480
22-Sep-09	ug/L	<1	1,8	36,000	430
24-Mar-10	ug/L	<1	2,4	4,300	510
6-Oct-10	ug/L	<1	3	47,000	450

OW26D Date	Units	As	Pb	Na	Zn
11-Mar-05	mg/L	0,018	0,014	24	0,21
2-Apr-07	ug/L	8	<0,5	41,000	180
12-Dec-07	ug/L	8	1,4	61,000	200
3-Jun-08	ug/L	4	<0,5	43,000	170
12-Feb-09	ug/L	4	<0,5	58,000	270
23-Sep-09	ug/L	6	<0,5	46,000	300
24-Mar-10	ug/L	7	<0,5	66,000	300
6-Oct-10	ug/L	6	<0,5	69,000	300

OW26S Date	Units	As	Pb	Na	Zn
11-Mar-05	mg/L	<0,001	<0.002	23	0,48
2-Apr-07	ug/L	<1	<0,5	19,000	850
12-Dec-07	ug/L	<1	<0,5	50,000	680
3-Jun-08	ug/L	<1	<0,5	15,000	950
12-Feb-09	ug/L	<1	<0,5	20,000	740
22-Sep-09	ug/L	<1	<0,5	55,000	810
24-Mar-10	ug/L	<1	<0,5	27,000	690
6-Oct-10	ug/L	<1	<0,5	55,000	900

OW10 Date	Units	As	Pb	Na	Zn
11/03/2005	mg/L	0,002	<0,002	19	0,27
02/04/2007	ug/L	<1	<0,5	9,000	15
12/12/2007	ug/L	1	<0,5	5,000	12
03/06/2008	ug/L	<1	<0,5	5,100	36
12/02/2009	ug/L	<1	<0,5	8,600	<5
22/09/2009	ug/L	<1	<0,5	4,300	7
24/03/2010	ug/L	<1	<0,5	6,100	8
06/10/2010	ug/L	<1	<0,5	3,900	10

OW13 Date	Units	As	Pb	Na	Zn
10-Mar-05	mg/L	0,068	0,017	32	1,4
2-Apr-07	ug/L	<1	<0,5	9,900	1,600
12-Dec-07	ug/L	2	<0,5	37,000	1,800
3-Jun-08	ug/L	<1	<0,5	16,000	2,000
12-Feb-09	ug/L	<1	<0,5	22,000	1,700
23-Sep-09	ug/L	2	<0,5	13,000	2,300
24-Mar-10	ug/L	11	<0,5	12,000	1,700
7-Oct-10	ug/L	7	<0,5	16,000	1,900

OW14 Date	Units	As	Pb	Na	Zn
10-Mar-05	mg/L	0,003	0,006	15	4,6
2-Apr-07	ug/L	<1	<0,5	8,000	880
12-Dec-07	ug/L	<1	<0,5	7,900	2,400
3-Jun-08	ug/L	<1	<0,5	9,900	5,000
12-Feb-09	ug/L	<1	<0,5	10,000	4,400
22-Sep-09	ug/L	<1	<0,5	16,000	4,800
23-Mar-10	ug/L	<1	<0,5	5,400	1,300
7-Oct-10	ug/L	<1	<0,5	6,600	3,700

OW24D Date	Units	As	Pb	Na	Zn
10-Mar-05	mg/L	0,035	0,058	30	0,82
2-Apr-07	ug/L	1	<0,5	27,000	490
12-Dec-07	ug/L	1	<0,5	28,000	450
3-Jun-08	ug/L	<1	<0,5	25,000	550
12-Feb-09	ug/L	<1	<0,5	32,000	530
23-Sep-09	ug/L	2	<0,5	37,000	550
23-Mar-10	ug/L	2	<0,5	43,000	580
6-Oct-10	ug/L	4	<0,5	43,000	400

OW24S Date	Units	As	Pb	Na	Zn
10-Mar-05	mg/L	0,001	0,025	12	1,2
2-Apr-07	ug/L	<1	<0,5	14,000	410
12-Dec-07	ug/L	<1	<0,5	12,000	740
3-Jun-08	ug/L	<1	<0,5	9,400	880
12-Feb-09	ug/L	<1	<0,5	8,200	600
23-Sep-09	ug/L	<1	<0,5	11,000	1,500
23-Mar-10	ug/L	<1	<0,5	22,000	400
6-Oct-10	ug/L	<1	<0,5	9,700	1,000

OW29D Date	Units	As	Pb	Na	Zn
2-Apr-07	ug/L	<1	0,6	19,000	1,100
12-Dec-07	ug/L	<1	1,8	38,000	1,200
3-Jun-08	ug/L	<1	0,6	37,000	1,100
12-Feb-09	ug/L	<1	0,5	44,000	1,000
23-Sep-09	ug/L	<1	0,8	22,000	950
24-Mar-10	ug/L	<1	1,4	67,000	1,100
7-Oct-10	ug/L	<1	1,7	45,000	1,000

OW29S Date	Units	As	Pb	Na	Zn
2-Apr-07	ug/L	<5	<0,5	360,000	940
12-Dec-07	ug/L	<1	<0,5	270,000	1,200
3-Jun-08	ug/L	<1	<0,5	160,000	620
12-Feb-09	ug/L	<1	<0,5	200,000	440
22-Sep-09	ug/L	<1	1	190,000	640
24-Mar-10	ug/L	<5	<0,5	780,000	720
7-Oct-10	ug/L	<1	<0,5	300,000	830

PROPERTY BOUNDARY

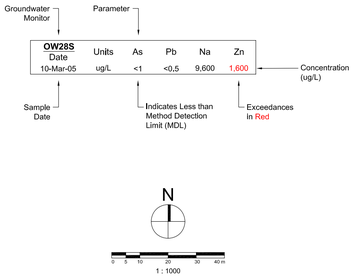
OW17 ● SAMPLE LOCATION

OW22S 2010 ANALYTICAL RESULTS ABOVE MOE STANDARDS (2009)

SHALLOW GROUNDWATER FLOW DIRECTION

Concentrations in RED denote an exceedance of the MOE Table 2 Standards for coarse grain soil. The Table 2 Standards for the parameters presented in this figure are shown:

Parameter	Concentration	Units
Arsenic (As)	25	as noted
Lead (Pb)	10	ug/L
Sodium (Na)	490,000	ug/L
Zinc (Zn)	1,100	ug/L



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ALL MEASUREMENTS MUST BE OBTAINED FROM STATED DIMENSIONS.

AECOM

Former IMICO Site

Summary of Historical Metals Concentrations

PROJECT NUMBER	DRAWING NUMBER	ISSUE/REVISION
60149110	4	

D SIZE: 24" x 36" (609.6mm x 914.4mm)

PLOT: 3/1/2011 8:41:16 PM

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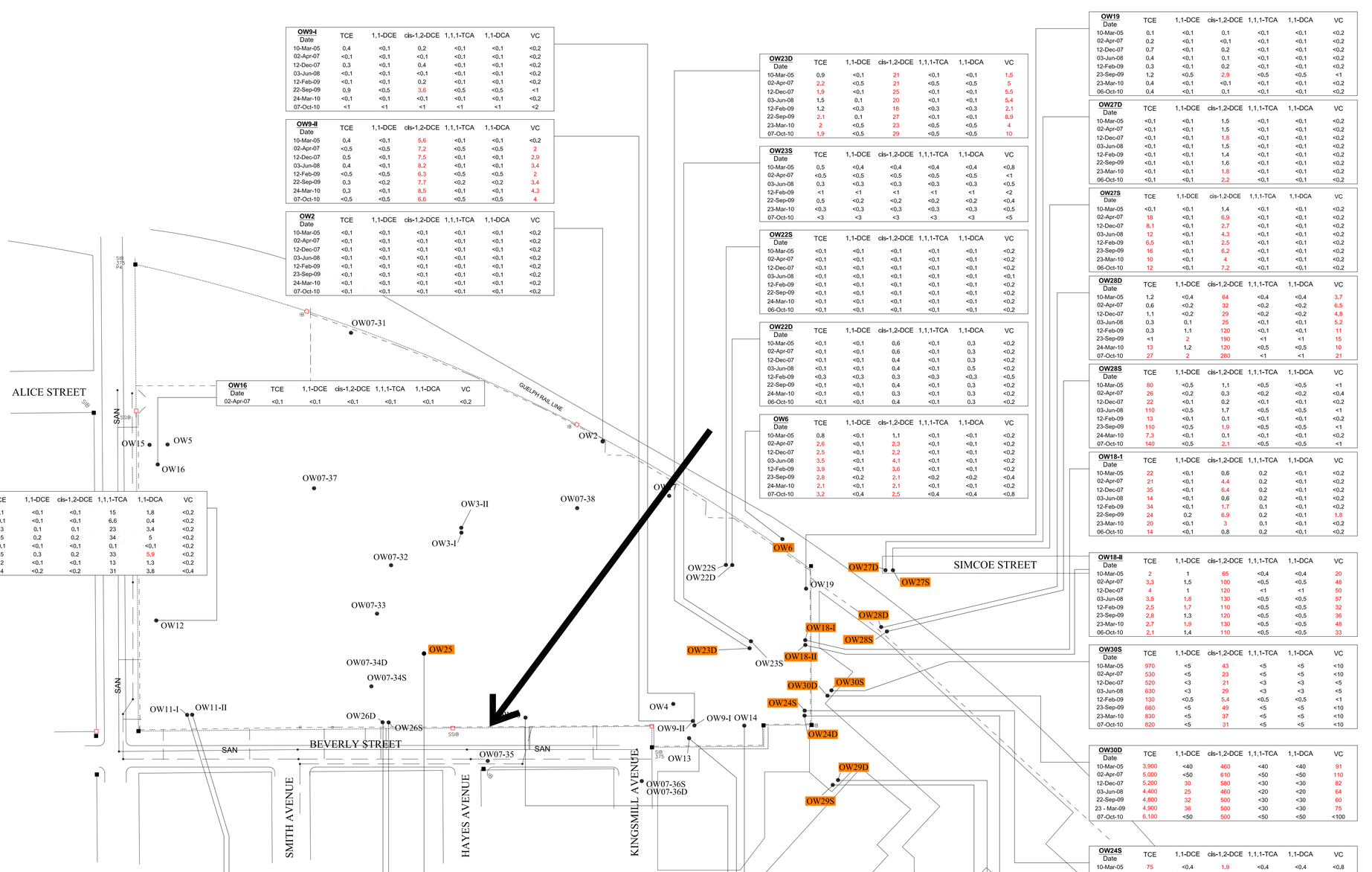

OW9-I

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
10-Mar-05	0,4	<0,1	0,2	<0,1	<0,1	<0,2
02-Apr-07	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
12-Dec-07	0,3	<0,1	0,4	<0,1	<0,1	<0,2
03-Jun-08	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
12-Feb-09	<0,1	<0,1	0,2	<0,1	<0,1	<0,2
22-Sep-09	0,9	<0,5	3,6	<0,5	<0,5	<1
24-Mar-10	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
07-Oct-10	<1	<1	<1	<1	<1	<2

OW9-II

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
10-Mar-05	0,4	<0,1	5,6	<0,1	<0,1	<0,2
02-Apr-07	<0,5	<0,5	7,2	<0,5	<0,5	2
12-Dec-07	0,5	<0,1	7,5	<0,1	<0,1	2,9
03-Jun-08	0,4	<0,1	8,2	<0,1	<0,1	3,4
12-Feb-09	<0,5	<0,5	6,3	<0,5	<0,5	2
22-Sep-09	0,3	<0,2	7,7	<0,2	<0,2	3,4
24-Mar-10	0,3	<0,1	8,5	<0,1	<0,1	4,3
07-Oct-10	<0,5	<0,5	6,6	<0,5	<0,5	4

OW2

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
10-Mar-05	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
02-Apr-07	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
12-Dec-07	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
03-Jun-08	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
12-Feb-09	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
23-Sep-09	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
24-Mar-10	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
07-Oct-10	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2

OW16

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
02-Apr-07	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2

OW12

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
11-Mar-05	0,1	<0,1	<0,1	15	1,8	<0,2
02-Apr-07	<0,1	<0,1	<0,1	6,6	0,4	<0,2
12-Dec-07	0,3	0,1	0,1	23	3,4	<0,2
03-Jun-08	0,5	0,2	0,2	34	5	<0,2
12-Feb-09	<0,1	<0,1	<0,1	0,1	<0,1	<0,2
22-Sep-09	0,5	0,3	0,2	33	5,9	<0,2
23-Mar-10	0,2	<0,1	<0,1	13	1,3	<0,2
07-Oct-10	0,4	<0,2	<0,2	31	3,8	<0,4

OW11-I

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
24-Mar-10	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
02-Apr-07	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
12-Dec-07	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
03-Jun-08	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
12-Feb-09	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
22-Sep-09	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
06-Oct-10	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2

OW11-I

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
02-Apr-07	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2

OW25

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
11-Mar-05	2,8	<0,1	<0,1	0,5	<0,1	<0,2
02-Apr-07	3	<0,1	<0,1	0,5	<0,1	<0,2
12-Dec-07	2,1	<0,1	0,8	0,4	0,2	0,4
03-Jun-08	2,5	<0,1	0,2	0,3	<0,1	<0,2
12-Feb-09	1,6	<0,1	<0,1	0,1	<0,1	<0,2
22-Sep-09	4,1	<0,1	1,2	0,7	0,3	0,4
24-Mar-10	2,2	<0,1	0,4	0,3	0,1	<0,2
07-Oct-10	3,1	<0,1	0,7	0,6	0,2	<0,2

OW26S

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
11-Mar-05	<0,1	<0,1	<0,1	0,4	0,2	<0,2
02-Apr-07	<0,1	<0,1	0,1	2,4	3	<0,2
12-Dec-07	0,1	<0,1	0,1	1,7	2,4	<0,2
03-Jun-08	<0,1	<0,1	0,1	2,3	3	<0,2
12-Feb-09	0,2	0,1	0,3	3,5	5	<0,2
22-Sep-09	0,2	0,1	0,4	4	6,4	<0,2
24-Mar-10	0,1	<0,1	0,2	2,6	4,3	<0,2
06-Oct-10	0,2	<0,1	0,3	3,5	4,9	<0,2

OW26D

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
11-Mar-05	<0,1	<0,1	<0,1	<0,1	0,3	<0,2
02-Apr-07	0,4	0,1	1,8	0,3	4,9	<0,2
12-Dec-07	0,3	<0,1	1,9	<0,1	3,3	<0,2
03-Jun-08	0,2	<0,1	1,7	<0,1	3,6	<0,2
12-Feb-09	0,2	<0,1	2	<0,1	3,5	<0,2
23-Sep-09	0,4	<0,1	2	<0,1	3,3	<0,2
24-Mar-10	0,3	<0,1	2,1	<0,1	3,3	<0,2
06-Oct-10	0,3	<0,1	2	<0,1	3,4	<0,2

OW23D

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
10-Mar-05	0,9	<0,1	21	<0,1	<0,1	1,5
02-Apr-07	2,2	<0,5	21	<0,5	<0,5	5
12-Dec-07	1,9	<0,1	25	<0,1	<0,1	5,5
03-Jun-08	1,5	0,1	20	<0,1	<0,1	5,4
12-Feb-09	1,2	<0,3	18	<0,3	<0,3	2,1
22-Sep-09	2,1	0,1	27	<0,1	<0,1	8,9
23-Mar-10	2	<0,5	23	<0,5	<0,5	4
07-Oct-10	1,9	<0,5	29	<0,5	<0,5	10

OW23S

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
10-Mar-05	0,5	<0,4	<0,4	<0,4	<0,4	<0,8
02-Apr-07	<0,5	<0,5	<0,5	<0,5	<0,5	<1
03-Jun-08	0,3	<0,3	<0,3	<0,3	<0,3	<0,5
12-Feb-09	<1	<1	<1	<1	<1	<2
22-Sep-09	0,5	<0,2	<0,2	<0,2	<0,2	<0,4
23-Mar-10	<0,3	<0,3	<0,3	<0,3	<0,3	<0,5
07-Oct-10	<3	<3	<3	<3	<3	<5

OW22S

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
10-Mar-05	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
02-Apr-07	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
12-Dec-07	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
03-Jun-08	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1
12-Feb-09	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
22-Sep-09	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
24-Mar-10	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
06-Oct-10	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2

OW22D

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
10-Mar-05	<0,1	<0,1	0,6	<0,1	0,3	<0,2
02-Apr-07	<0,1	<0,1	0,6	<0,1	0,3	<0,2
12-Dec-07	<0,1	<0,1	0,4	<0,1	0,3	<0,2
03-Jun-08	<0,1	<0,1	0,4	<0,1	0,5	<0,2
12-Feb-09	<0,3	<0,3	0,3	<0,3	<0,3	<0,5
22-Sep-09	<0,1	<0,1	0,4	<0,1	0,3	<0,2
24-Mar-10	<0,1	<0,1	0,3	<0,1	0,3	<0,2
06-Oct-10	<0,1	<0,1	0,4	<0,1	0,3	<0,2

OW6

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
10-Mar-05	0,8	<0,1	1,1	<0,1	<0,1	<0,2
02-Apr-07	2,6	<0,1	2,3	<0,1	<0,1	<0,2
12-Dec-07	2,5	<0,1	2,2	<0,1	<0,1	<0,2
03-Jun-08	3,5	<0,1	4,1	<0,1	<0,1	<0,2
12-Feb-09	3,9	<0,1	3,6	<0,1	<0,1	<0,2
23-Sep-09	2,8	<0,2	2,1	<0,2	<0,2	<0,4
24-Mar-10	2,1	<0,1	2,1	<0,1	<0,1	<0,2
07-Oct-10	3,2	<0,4	2,5	<0,4	<0,4	<0,8

OW14

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
10-Mar-05	0,7	<0,1	0,6	<0,1	<0,1	<0,2
02-Apr-07	0,3	<0,1	1	<0,1	<0,1	<0,2
12-Dec-07	1	<0,1	3,7	<0,1	<0,1	<0,2
03-Jun-08	2,1	<0,1	<0,1	<0,1	<0,1	<0,2
12-Feb-09	1,5	<0,1	0,1	<0,1	<0,1	<0,2
22-Sep-09	2,4	<0,1	5,6	<0,1	<0,1	<0,2
23-Mar-10	0,4	<0,1	2,3	<0,1	<0,1	<0,2
07-Oct-10	1,5	<0,1	0,7	<0,1	<0,1	<0,2

OW13

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
10-Mar-05	0,6	<0,1	2,6	<0,1	<0,1	<0,2
02-Apr-07	1,1	<0,1	0,6	<0,1	<0,1	<0,2
12-Dec-07	1,4	<0,1	3,7	<0,1	<0,1	0,3
03-Jun-08	1	<0,1	1	<0,1	<0,1	<0,2
12-Feb-09	1	<0,1	0,7	<0,1	<0,1	<0,2
23-Sep-09	0,9	<0,1	1,2	<0,1	<0,1	0,3
24-Mar-10	1,1	<0,1	0,9	<0,1	<0,1	<0,2
07-Oct-10	1,2	<0,5	1,3	<0,5	<0,5	<1

OW10

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
11-Mar-05	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
02-Apr-07	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
12-Dec-07	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
03-Jun-08	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
12-Feb-09	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
22-Sep-09	<0,1	<0,1	<0,1	<0,1	0,1	<0,2
24-Mar-10	<0,1	<0,1	<0,1	<0,1	<0,1	<0,2
06-Oct-10	<0,1	<0,1	<0,1	<0,1	0,1	<0,2

OW19

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
10-Mar-05	0,1	<0,1	0,1	<0,1	<0,1	<0,2
02-Apr-07	0,2	<0,1	<0,1	<0,1	<0,1	<0,2
12-Dec-07	0,7	<0,1	0,2	<0,1	<0,1	<0,2
03-Jun-08	0,4	<0,1	0,1	<0,1	<0,1	<0,2
12-Feb-09	0,3	<0,1	0,2	<0,1	<0,1	<0,2
23-Sep-09	1,2	<0,5	2,9	<0,5	<0,5	<1
23-Mar-10	0,4	<0,1	<0,1	<0,1	<0,1	<0,2
06-Oct-10	0,4	<0,1	0,1	<0,1	<0,1	<0,2

OW27D

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
10-Mar-05	<0,1	<0,1	1,5	<0,1	<0,1	<0,2
02-Apr-07	<0,1	<0,1	1,5	<0,1	<0,1	<0,2
12-Dec-07	<0,1	<0,1	1,8	<0,1	<0,1	<0,2
03-Jun-08	<0,1	<0,1	1,5	<0,1	<0,1	<0,2
12-Feb-09	<0,1	<0,1	1,4	<0,1	<0,1	<0,2
22-Sep-09	<0,1	<0,1	1,6	<0,1	<0,1	<0,2
23-Mar-10	<0,1	<0,1	1,8	<0,1	<0,1	<0,2
06-Oct-10	<0,1	<0,1	2,2	<0,1	<0,1	<0,2

OW27S

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
10-Mar-05	<0,1	<0,1	1,4	<0,1	<0,1	<0,2
02-Apr-07	18	<0,1	6,9	<0,1	<0,1	<0,2
12-Dec-07	8,1	<0,1	2,7	<0,1	<0,1	<0,2
03-Jun-08	12	<0,1	4,3	<0,1	<0,1	<0,2
12-Feb-09	6,5	<0,1	2,5	<0,1	<0,1	<0,2
23-Sep-09	16	<0,1	6,2	<0,1	<0,1	<0,2
23-Mar-10	10	<0,1	4	<0,1	<0,1	<0,2
06-Oct-10	12	<0,1	7,2	<0,1	<0,1	<0,2

OW28D

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
10-Mar-05	1,2	<0,4	64	<0,4	<0,4	3,7
02-Apr-07	0,6	<0,2	32	<0,2	<0,2	6,5
12-Dec-07	1,1	<0,2	29	<0,2	<0,2	4,8
03-Jun-08	0,3	0,1	25	<0,1	<0,1	5,2
12-Feb-09	0,3	1,1	120	<0,1	<0,1	11
23-Sep-09	<1	2	190	<1	<1	15
24-Mar-10	13	1,2	120	<0,5	<0,5	10
07-Oct-10	27	2	280	<1	<1	21

OW28S

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
10-Mar-05	80	<0,5	1,1	<0,5	<0,5	<1
02-Apr-07	26	<0,2	0,3	<0,2	<0,2	<0,4
12-Dec-07	22	<0,1	0,2	<0,1	<0,1	<0,2
03-Jun-08	110	<0,5	1,7	<0,5	<0,5	<1
12-Feb-09	13	<0,1	0,1	<0,1	<0,1	<0,2
23-Sep-09	110	<0,5	1,9	<0,5	<0,5	<1
24-Mar-10	7,3	<0,1	0,1	<0,1	<0,1	<0,2
07-Oct-10	140	<0,5	2,1	<0,5	<0,5	<1

OW18-I

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
10-Mar-05	22	<0,1	0,6	0,2	<0,1	<0,2
02-Apr-07	21	<0,1	4,4	0,2	<0,1	<0,2
12-Dec-07	35	<0,1	6,4	0,2	<0,1	<0,2
03-Jun-08	14	<0,1	0,6	0,2	<0,1	<0,2
12-Feb-09	34	<0,1	1,7	0,1	<0,1	<0,2
22-Sep-09	24	0,2	6,9	0,2	<0,1	1,8
23-Mar-10	20	<0,1	3	0,1	<0,1	<0,2
06-Oct-10	14	<0,1	0,8	0,2	<0,1	<0,2

OW18-II

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
10-Mar-05	2	1	65	<0,4	<0,4	20
02-Apr-07	3,3	1,5	100	<0,5	<0,5	48
12-Dec-07	4	1	120	<1	<1	50
03-Jun-08	3,5	1,8	130	<0,5	<0,5	57
12-Feb-09	2,5	1,7	110	<0,5	<0,5	32
23-Sep-09	2,8	1,3	120	<0,5	<0,5	36
23-Mar-10	2,7	1,9	130	<0,5	<0,5	48
06-Oct-10	2,1	1,4	110	<0,5	<0,5	33

OW30S

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
10-Mar-05	970	<5	43	<5	<5	<10
02-Apr-07	530	<5	23	<5	<5	<10
12-Dec-07	520	<3	21	<3	<3	<5
03-Jun-08	630	<3	29	<3	<3	<5
12-Feb-09	130	<0,5	5,4	<0,5	<0,5	<1
23-Sep-09	660	<5	49	<5	<5	<10
23-Mar-10	830	<5	37	<5	<5	<10
07-Oct-10	820	<5	31	<5	<5	<10

OW30D

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
10-Mar-05	3,900	<40	460	<40	<40	91
02-Apr-07	5,000	<50	610	<50	<50	110
12-Dec-07	5,200	30	580	<30	<30	82
03-Jun-08	4,400	25	460	<20	<20	84
22-Sep-09	4,800	32	500	<30	<30	60
23 - Mar-09	4,900	36	500	<30	<30	75
07-Oct-10	6,100	<50	500	<50	<50	<100

OW24S

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
10-Mar-05	75	<0,4	1,9	<0,4	<0,4	<0,8
02-Apr-07	86	<0,5	<0,5	<0,5	<0,5	<1
12-Dec-07	100	<0,5	<0,5	<0,5	<0,5	<1
03-Jun-08	64	<0,3	1,6	<0,3	<0,3	<0,5
12-Feb-09	65	<0,5	2,3	<0,5	<0,5	<1
23-Sep-09	83	<0,5	12	<0,5	<0,5	<1
23-Mar-10	85	<0,5	<0,5	<0,5	<0,5	<1
06-Oct-10	78	<0,5	6,5	<0,5	<0,5	<1

OW24D

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
10-Mar-05	5,200	<40	600	<40	<40	<80
02-Apr-07	2,800	<20	420	<20	<20	46
12-Dec-07	2,100	12	300	<10	<10	<20
03-Jun-08	2,000	11	270	<10	<10	22
12-Feb-09	2,400	<20	350	<20	<20	<40
23-Sep-09	3,600	29	560	<20	<20	72
23-Mar-10	2,700	<30	450	<30	<30	<50
06-Oct-10	3,500	20	520	<10	<10	47

OW29D

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
10-Mar-05	460	<2	30	<2	<2	<4
02-Apr-07	1,000	<5	51	<5	<5	<10
12-Dec-07	1,100	<5	54	<5	<5	15
03-Jun-08	950	<5	46	<5	<5	<10
12-Feb-09	940	<5	42	<5	<5	<10
23-Sep-09	950	<5	42	<5	<5	<10
24-Mar-10	1,000	<5	52	<5	<5	<10
07-Oct-10	1,100	<5	35	<5	<5	<10

OW29S

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
10-Mar-05	120	<0,8	130	<0,8	<0,8	<2
02-Apr-07	100	<1	12	<1	<1	<2
12-Dec-07	130	<0,5	37	<0,5	<0,5	<1
03-Jun-08	130	<0,5	18	<0,5	<0,5	<1
12-Feb-09	110	<0,5	11	<0,5	<0,5	<1
22-Sep-09	140	<1	15	<1	<1	<2
24-Mar-10	140	<0,5	7,5	<0,5	<0,5	<1
24-Mar-10	130	<0,5	8,1	<0,5	<0,5	<1
07-Oct-10	200	<1	9	<1	<1	<2

PROPERTY BOUNDARY

OW17 ● SAMPLE LOCATION

OW27S 2010 ANALYTICAL RESULTS ABOVE MOE STANDARDS (2009)

SHALLOW GROUNDWATER FLOW DIRECTION

Concentrations in RED denote an exceedance of the MOE Table 2 Standards for coarse grain soil. The Table 2 Standards for the parameters presented in this figure are shown:

Parameter	Concentration	Units
TCE	0,1	ug/L
1,1-DCE	1,6	ug/L
cis-1,2-DCE	0,2	ug/L
1,1,1-TCA	2,4	ug/L
1,1-DCA	1	ug/L
VC	0,1	ug/L

Groundwater Monitor — Parameter

OW11-II

Date	TCE	1,1-DCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	VC
02-Apr-07	<0,1	2	<0,1	<0,1	<0,1	<0,2

Sample Date — Exceedances in Red — Indicates Less than Method Detection Limit (MDL) — Concentration

N

0 5 10 20 30 40 m

1 : 1000

DO NOT SCALE THIS DOCUMENT.
ALL MEASUREMENTS MUST BE OBTAINED FROM STATED DIMENSIONS.

AECOM

Former IMICO Site

Summary of Historical Volatile Organic Compounds Concentrations (VOC)

PROJECT NUMBER	DRAWING NUMBER	ISSUE/REVISION
60149110	5	

D SIZE 24" x 36" (609.6mm x 914.4mm)

PLOT: 3/1/2011 8:39:44 PM

FILE NAME: 60149110_SUMMARYHISTORICAL.DWG BY:----

OW12 Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
2-Apr-07	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05

OW16 Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
2-Apr-07	<0.05	<0.05	0.02	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05

OW2 Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
10-Mar-05	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
2-Apr-07	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Dec-07	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
3-Jun-08	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Feb-09	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
23-Sep-09	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
24-Mar-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05
7-Oct-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05

OW25 Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
11-Mar-05	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
2-Apr-07	<0.3	<0.3	3.5	<0.5	<0.3	<0.3	<0.5	<0.3	<0.3	<0.3
12-Dec-07	1	2.8	8.5	2	<0.05	2	0.5	6.8	3.6	5
3-Jun-08	<0.5	<0.5	6.9	<1	1.2	<0.5	<1	<0.5	<0.5	<0.5
17-Feb-09	<0.3	<0.3	<0.05	<0.5	<0.3	<0.3	<0.5	<0.3	<0.3	<0.3
22-Sep-09	<0.05	<0.05	0.63	<0.1	<10	<0.05	<0.1	<0.05	<0.05	<0.05
24-Mar-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05
7-Oct-10	<0.05	<0.05	1	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05

OW9-II Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
2-Apr-07	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05

OW9-I Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
2-Apr-07	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05

OW22S Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
2-Apr-07	<0.05	0.09	0.07	<0.1	<0.05	0.18	<0.1	0.07	<0.05	0.93

OW22D Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
10-Mar-05	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
2-Apr-07	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Dec-07	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
3-Jun-08	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Feb-09	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
22-Sep-09	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
24-Mar-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05
6-Oct-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05

OW6 Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
10-Mar-05	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
2-Apr-07	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Dec-07	<0.05	0.06	0.12	<0.1	0.05	<0.05	<0.1	0.09	<0.05	0.08
3-Jun-08	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Feb-09	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
23-Sep-09	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
24-Mar-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05
7-Oct-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05

OW19 Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
10-Mar-05	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	0.09
2-Apr-07	<0.05	<0.05	0.02	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	0.11
12-Dec-07	<0.05	<0.05	0.03	<0.1	<0.05	<0.05	<0.1	0.09	0.08	0.09
3-Jun-08	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Feb-09	0.05	<0.05	0.05	<0.1	<0.05	<0.05	<0.1	0.14	0.13	0.12
23-Sep-09	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
23-Mar-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05
6-Oct-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05

OW23S Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
2-Apr-07	2.2	<0.1	0.12	<0.2	<0.1	2.4	<0.2	1.6	2.2	5

OW23D Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
10-Mar-05	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
2-Apr-07	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Dec-07	<0.05	<0.05	0.02	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
3-Jun-08	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Feb-09	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
22-Sep-09	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
7-Oct-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05

OW27D Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
10-Mar-05	<0.05	<0.05	0.02	<0.1	<0.05	<0.05	<0.1	0.13	<0.05	0.11
2-Apr-07	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Dec-07	<0.05	0.14	0.25	0.2	0.1	0.1	<0.1	0.27	0.14	0.21
3-Jun-08	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Feb-09	<0.05	<0.05	0.03	<0.1	<0.05	<0.05	<0.1	0.06	<0.05	0.06
22-Sep-09	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
23-Mar-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05
6-Oct-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05

OW27S Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
10-Mar-05	<0.05	<0.05	0.04	<0.1	<0.05	<0.05	<0.1	0.09	<0.05	0.08
2-Apr-07	<0.05	<0.05	0.02	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Dec-07	<0.05	<0.05	0.03	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
3-Jun-08	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Feb-09	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
23-Sep-09	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
23-Mar-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05
6-Oct-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05

OW28D Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
2-Apr-07	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Dec-07	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
3-Jun-08	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Feb-09	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
23-Sep-09	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
24-Mar-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05
7-Oct-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05

OW28S Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
2-Apr-07	<0.05	0.08	0.06	<0.1	<0.05	0.08	<0.1	0.05	<0.05	0.06
12-Dec-07	<0.05	<0.05	0.02	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
3-Jun-08	<0.05	<0.05	0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Feb-09	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
23-Sep-09	<0.05	<0.05	0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
24-Mar-10	<0.05	<0.05	0.02	<0.1	<0.05	<0.05	<0.1	0.06	0.05	<0.05
7-Oct-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05

OW18-I Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
10-Mar-05	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
2-Apr-07	0.08	0.15	0.1	<0.1	0.06	0.11	<0.1	0.3	0.27	0.24
12-Dec-07	<0.05	0.09	0.08	<0.1	<0.05	0.06	<0.1	0.2	0.16	0.15
3-Jun-08	<0.05	<0.05	0.02	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Feb-09	0.19	0.43	0.35	0.2	0.17	0.3	<0.1	0.9	0.72	0.69
22-Sep-09	<0.05	<0.05	0.02	<0.1	<0.05	<0.05	<0.1	0.05	0.06	<0.05
23-Mar-10	<0.05	<0.05	0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05
6-Oct-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05

OW18-II Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
10-Mar-05	<0.05	<0.05	0.02	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
2-Apr-07	<0.05	<0.05	0.04	<0.1	<0.05	<0.05	<0.1	0.11	0.09	0.09
12-Dec-07	<0.05	<0.05	0.03	<0.1	<0.05	<0.05	<0.1	0.07	0.05	0.06
3-Jun-08	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Feb-09	0.3	0.43	0.11	<0.1	0.09	0.33	<0.1	2.7	1.7	1.6
23-Sep-09	<0.05	<0.05	0.02	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
23-Mar-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05
6-Oct-10	<0.05	<0.05	0.01	<0.1	<0.05	<0.05	<0.1	<0.05	0.04	<0.05

OW30S Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
2-Apr-07	1.1	4.2	4.3	2.7	2.1	3.9	0.7	10	6.6	8.3
12-Dec-07	0.11	0.49	0.46	0.3	0.26	0.53	<0.1	1.2	0.67	0.98
3-Jun-08	<0.3	0.8	0.74	<0.5	0.5	0.8	<0.5	2.2	1.2	1.5
12-Feb-09	2	8.2	8.1	6	4.7	7.5	1	21	11	18
23-Sep-09	1.3	5.7	5.7	3.3	3.4	5.2	<0.5	14	7.9	12
23-Mar-10	0.16	0.72	0.72	0.7	0.39	0.72	0.1	1.9	0.98	1.5
7-Oct-10	<0.05	<0.05	0.04	<0.1	<0.05	<0.05	<0.1	0.11	0.06	0.09

OW30D Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
2-Apr-07	0.15	0.91	1.1	0.8	0.57	0.92	0.2	2.2	0.96	2
12-Dec-07	0.06	0.17	0.16	<0.1	0.09	0.18	<0.1	0.56	0.42	0.41
3-Jun-08	0.6	2.9	3.3	1.8	2	3	<0.5	8.3	3.8	5.4
22-Sep-09	0.05	0.23	0.24	0.1	0.16	0.22	<0.1	0.56	0.3	0.48
23-Mar-10	<0.05	0.06	0.07	<0.1	<0.05	0.06	<0.1	0.15	0.09	0.13
7-Oct-10	<0.05	<0.05	0.02	<0.1	<0.05	<0.05	<0.1	0.05	0.05	<0.05

OW24S Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
10-Mar-05	<0.05	<0.05	0.03	<0.1	<0.05	<0.05	<0.1	0.08	<0.05	0.07
2-Apr-07	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Dec-07	<0.05	0.09	0.06	<0.1	<0.05	0.06	<0.1	0.17	0.07	0.13
3-Jun-08	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Feb-09	<0.05	<0.05	0.02	<0.1	<0.05	<0.05	<0.1	0.07	0.07	0.06
23-Sep-09	<0.05	<0.05	0.03	<0.1	<0.05	<0.05	<0.1	0.08	<0.05	0.07
23-Mar-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05
6-Oct-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05

OW10 Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
2-Apr-07	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05

OW13 Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
2-Apr-07	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05

OW14 Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
2-Apr-07	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05

OW29S Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
2-Apr-07	<0.05	0.06	0.13	0.1	0.06	<0.05	<0.1	0.05	<0.05	0.07
12-Dec-07	<0.05	<0.05	0.04	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
3-Jun-08	<0.05	<0.05	0.05	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Feb-09	<0.05	<0.05	0.07	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
22-Sep-09	<0.05	0.14	0.15	<0.1	0.09	0.11	<0.1	0.22	0.1	0.21
24-Mar-10	<0.05	0.07	0.14	0.2	0.07	<0.05	<0.1	0.07	<0.03	0.07
24-Mar-10	0.05	0.1	0.19	0.2	0.11	0.07	<0.1	0.12	0.05	0.12
7-Oct-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05

OW29D Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
2-Apr-07	<0.05	<0.05	0.03	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Dec-07	<0.05	0.07	0.05	<0.1	<0.05	<0.05	<0.1	0.14	0.16	0.11
3-Jun-08	<0.05	<0.05	0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Feb-09	<0.05	<0.05	0.03	<0.1	<0.05	<0.05	<0.1	0.07	<0.05	0.06
23-Sep-09	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
24-Mar-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05
7-Oct-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05

OW24D Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
10-Mar-05	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
2-Apr-07	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Dec-07	0.1	0.28	0.22	0.1	0.1	0.16	<0.1	0.54	0.3	0.39
3-Jun-08	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Feb-09	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
23-Sep-09	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
23-Mar-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05
6-Oct-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05

OW11-I Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
2-Apr-07	<0.05	<0.05	0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05

OW11-II Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
2-Apr-07	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05

OW26D Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
11-Mar-05	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
2-Apr-07	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Dec-07	<0.05	<0.05	0.03	<0.1	<0.05	<0.05	<0.1	0.08	0.08	0.06
3-Jun-08	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Feb-09	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	0.12	<0.05
23-Sep-09	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
23-Mar-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05
24-Mar-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05
6-Oct-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05

OW26S Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
11-Mar-05	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
2-Apr-07	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Dec-07	<0.05	<0.05	0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
3-Jun-08	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
12-Feb-09	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
22-Sep-09	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
24-Mar-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05
6-Oct-10	<0.05	<0.05	<0.01	<0.1	<0.05	<0.05	<0.1	<0.05	<0.03	<0.05

PROPERTY BOUNDARY

OW17 ● SAMPLE LOCATION

OW28S 2010 ANALYTICAL RESULTS ABOVE MOE STANDARDS (2009)

← SHALLOW GROUNDWATER FLOW DIRECTION

Concentrations in RED denote an exceedance of the MOE Table 2 Standards for coarse grain soil. The Table 2 Standards for the parameters presented in this figure are shown:

Parameter	Concentration	Units
Anthracene	2.4	ug/L
Benzo (a) anthracene	1	ug/L
Benzo (a) pyrene	0.01	ug/L
Benzo (g,h,i) perylene	0.2	ug/L
Benzo (k) fluoranthene	0.1	ug/L
Chrysene	0.1	ug/L
Dibenz (a,h) anthracene	0.2	ug/L
Fluoranthene	0.41	ug/L
Phenanthren	1	ug/L
Pyrene	4.1	ug/L

Groundwater Monitor

Parameter

OW23S Date	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Phenanthrene	Pyrene
2-Apr-07	2.2	<0.1	0.12	<0.2	<0.1	2.4	<0.2	1.6	2.2	5

Sample Date

Exceedances in Red

Indicates Less than Method Detection Limit (MDL)

Concentration (ug/L)

DO NOT SCALE THIS DOCUMENT.
ALL MEASUREMENTS MUST BE OBTAINED FROM STATED DIMENSIONS.

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AECOM

Former IMICO Site

Summary of Historical Polyaromatic Hydrocarbon Concentrations (PAH)

PROJECT NUMBER	DRAWING NUMBER	ISSUE/REVISION
60149110	6	

OW10

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	<100	<100	<100
12-Dec-07	<100	<100	<100	<100
12-Feb-09	<100	<100	<100	<100
22-Sep-09	<100	<100	<100	<100
24-Mar-10	<100	<100	<100	<100
6-Oct-10	<100	<100	<100	<100

OW25

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	<100	1,800	<100
12-Dec-07	<100	<100	280	<100
3-Jun-08	<100	1,400	4,600	<100
12-Feb-09	<100	120	1,200	<100
22-Sep-09	<100	<100	1,500	<100
24-Mar-10	<100	190	3,300	<100
7-Oct-10	<100	110	4,100	<100

OW16

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	<100	<100	<100
12-Dec-07		<100	<100	<100
3-Jun-08	<100		<100	<100
3-Jun-08		<100		
12-Feb-09	<100	<100	<100	<100
22-Sep-09	<100	<100	<100	<100
23-Mar-10	<100	<100	<100	<100
7-Oct-10		<100	<100	<100

OW12

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	<100	<100	<100

OW6

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	<100	<100	<100
12-Dec-07	<100	<100	<100	<100
3-Jun-08	<100	<100	<100	<100
12-Feb-09	<100	<100	<100	<100
23-Sep-09	<100	<100	<100	<100
24-Mar-10	<100	<100	<100	<100
7-Oct-10	<100	<100	<100	<100

OW22D

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	<100	<100	<100
12-Dec-07	<100	<100	<100	<100
3-Jun-08	<100	<100	<100	<100
12-Feb-09	<100	<100	<100	<100
22-Sep-09	<100	<100	<100	<100
24-Mar-10	<100	<100	<100	<100
6-Oct-10	<100	<100	<100	<100

OW22S

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	1,300	18,000	540

OW2

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	<100	<100	<100
12-Dec-07	<100	<100	<100	<100
3-Jun-08	<100	<100	<100	<100
12-Feb-09	<100	<100	<100	<100
23-Sep-09	<100	<100	<100	<100
24-Mar-10	<100	<100	<100	<100
7-Oct-10	<100	<100	<100	<100

OW27S

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	<100	<100	<100
12-Dec-07	<100	<100	<100	<100
3-Jun-08	<100	<100	<100	<100
12-Feb-09	<100	<100	<100	<100
23-Sep-09	<100	<100	<100	<100
23-Mar-10	<100	<100	<100	<100
6-Oct-10	<100	<100	<100	<100

OW27D

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	<100	<100	<100
12-Dec-07	<100	<100	<100	<100
3-Jun-08	<100	<100	<100	<100
12-Feb-09	<100	<100	<100	<100
22-Sep-09	<100	<100	<100	<100
23-Mar-10	<100	<100	<100	<100
6-Oct-10	<100	<100	<100	<100

OW19

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	430	1,200	<100
12-Dec-07	<100	<100	290	<100
3-Jun-08	<100	220	310	<100
12-Feb-09	<100	230	240	<100
23-Sep-09	<100	<100	130	<100
23-Mar-10	<100	<100	<100	<100
6-Oct-10	<100	<100	<100	<100

OW28D

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	<100	<100	<100
12-Dec-07	<100	<100	<100	<100
3-Jun-08	<100	<100	<100	<100
12-Feb-09	<100	<100	<100	<100
23-Sep-09	<100	<100	<100	<100
24-Mar-10	<100	<100	<100	<100
7-Oct-10	<100	<100	<100	<100

OW28S

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	<100	<100	<100
12-Dec-07	<100	<100	<100	<100
3-Jun-08	<100	<100	<100	<100
12-Feb-09	<100	<100	<100	<100
23-Sep-09	<100	<100	<100	<100
24-Mar-10	<100	<100	<100	<100
7-Oct-10	<100	<100	<100	<100

OW18-I

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	<100	<100	<100
12-Dec-07	<100	<100	<100	<100
3-Jun-08	<100	<100	<100	<100
12-Feb-09	<100	<100	<100	<100
22-Sep-09	<100	<100	<100	<100
23-Mar-10	<100	<100	<100	<100
6-Oct-10	<100	<100	<100	<100

OW18-II

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	<100	<100	<100
12-Dec-07	<100	<100	<100	<100
3-Jun-08	<100	<100	<100	<100
12-Feb-09	<100	<100	<100	<100
23-Sep-09	<100	<100	<100	<100
23-Mar-10	<100	<100	<100	<100
6-Oct-10	<100	<100	<100	<100

OW23S

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	14,000	730,000	42,000

OW23D

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	<100	<100	<100
12-Dec-07	<100	<100	<100	<100
3-Jun-08	<100	<100	<100	<100
12-Feb-09	<100	<100	<100	<100
22-Sep-09	<100	<100	<100	<100
23-Mar-10	<100	<100	<100	<100
7-Oct-10	<100	<100	<100	<100

OW30S

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	<100	<100	<100
12-Dec-07	<100	<100	<100	<100
3-Jun-08	120	<100	<100	<100
12-Feb-09	<100	<100	260	380
23-Sep-09	<100	<100	150	<100
23-Mar-10	110	<100	<100	<100
7-Oct-10	180	<100	<100	<100

OW30D

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	880	<100	<100	<100
12-Dec-07	980	<100	<100	<100
3-Jun-08	1,100	<100	<100	<100
22-Sep-09	650	<100	<100	<100
23-Mar-10	1,000	<100	<100	<100
7-Oct-10	1,100	<100	<100	<100

OW24S

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	<100	<100	<100
12-Dec-07	<100	<100	<100	<100
3-Jun-08	<100	<100	<100	<100
12-Feb-09	<100	<100	<100	<100
23-Sep-09	<100	<100	<100	<100
23-Mar-10	<100	<100	<100	<100
6-Oct-10	<100	<100	<100	<100

OW24D

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	490	<100	<100	<100
12-Dec-07	450	<100	<100	<100
3-Jun-08	360	<100	<100	<100
12-Feb-09	610	<100	<100	<100
23-Sep-09	860	<100	<100	<100
23-Mar-10	600	<100	<100	<100
6-Oct-10	590	<100	<100	<100

OW29D

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	170	<100	<100	<100
12-Dec-07	140	<100	<100	<100
3-Jun-08	200	<100	<100	<100
12-Feb-09	210	<100	<100	<100
23-Sep-09	130	<100	<100	<100
24-Mar-10	140	<100	<100	<100
7-Oct-10	200	<100	<100	<100

OW11-I

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	<100	<100	<100
12-Dec-07	<100	<100	<100	<100
3-Jun-08	<100	<100	<100	<100
3-Jun-08	<100	<100	<100	<100
12-Feb-09	<100	<100	<100	<100
22-Sep-09	<100	<100	<100	<100
24-Mar-10	<100	<100	<100	<100
6-Oct-10	<100	<100	<100	<100

OW11-II

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	<100	<100	<100

OW26D

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	<100	<100	<100
12-Dec-07	<100	<100	<100	<100
3-Jun-08	<100	<100	<100	<100
12-Feb-09	<100	<100	<100	<100
23-Sep-09	<100	<100	<100	<100
24-Mar-10	<100	<100	<100	<100
6-Oct-10	<100	<100	<100	<100

OW26S

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	<100	<100	<100
12-Dec-07	<100	<100	<100	<100
3-Jun-08	<100	<100	<100	<100
12-Feb-09	<100	<100	<100	<100
22-Sep-09	<100	<100	<100	<100
24-Mar-10	<100	<100	<100	<100
6-Oct-10	<100	<100	<100	<100

OW9-II

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	<100	<100	<100
12-Dec-07	<100	<100	<100	<100
3-Jun-08	<100	<100	<100	<100
12-Feb-09	<100	<100	<100	<100
22-Sep-09	<100	<100	<100	<100
24-Mar-10	<100	<100	<100	<100
7-Oct-10	<100	<100	<100	<100

OW9-I

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	<100	<100	<100
12-Dec-07	<100	<100	<100	<100
3-Jun-08	<100	<100	<100	<100
12-Feb-09	<100	<100	<100	<100
22-Sep-09	<100	<100	<100	<100
24-Mar-10	<100	<100	<100	<100
7-Oct-10	<100	<100	<100	<100

OW13

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	<100	<100	<100
12-Dec-07	<100	<100	<100	<100
3-Jun-08	<100	<100	<100	<100
12-Feb-09	<100	<100	<100	<100
23-Sep-09	<100	<100	<100	<100
24-Mar-10	<100	<100	<100	<100
7-Oct-10	<100	<100	<100	<100

OW14

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	<100	<100	<100
12-Dec-07	<100	<100	<100	<100
3-Jun-08	<100	<100	<100	<100
12-Feb-09	<100	<100	<100	<100
22-Sep-09	<100	<100	<100	<100
23-Mar-10	<100	<100	<100	<100
7-Oct-10	<100	<100	<100	<100

OW29S

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	<100	<100	<100	<100
12-Dec-07	<100	<100	<100	<100
3-Jun-08	<100	<100	<100	<100
12-Feb-09	<100	<100	<100	<100
22-Sep-09	<100	<100	<100	<100
24-Mar-10	<100	<100	<100	<100
24-Mar-10	<100	<100	<100	<100
7-Oct-10	<100	<100	<100	<100

PROPERTY BOUNDARY

OW17 ● SAMPLE LOCATION

OW30D 2010 ANALYTICAL RESULTS ABOVE MOE STANDARDS (2009)

SHALLOW GROUNDWATER FLOW DIRECTION

Concentrations in RED denote an exceedance of the MOE Table 2 Standards for coarse grain soil. The Table 2 Standards for the parameters presented in this figure are shown:

Parameter	Concentration	Units
F1 (C6-C10)	750	ug/L
F2 (C10-C16 Hydrocarbons)	150	ug/L
F3 (C16-C34 Hydrocarbons)	500	ug/L
F4 (C34-C50 Hydrocarbons)	500	ug/L
Benzo (a) pyrene	0.01	ug/L

Groundwater Monitor — Parameter

OW18-I

Date	F1 (C6-C10)	F2 (C10-C16 Hydrocarbons)	F3 (C16-C34 Hydrocarbons)	F4 (C34-C50 Hydrocarbons)
2-Apr-07	800	<100	<100	<100

Concentration (ug/L)

Sample Date — Exceedances in Red — Indicates Less than Method Detection Limit (MDL)

N

0 5 10 20 30 40 m

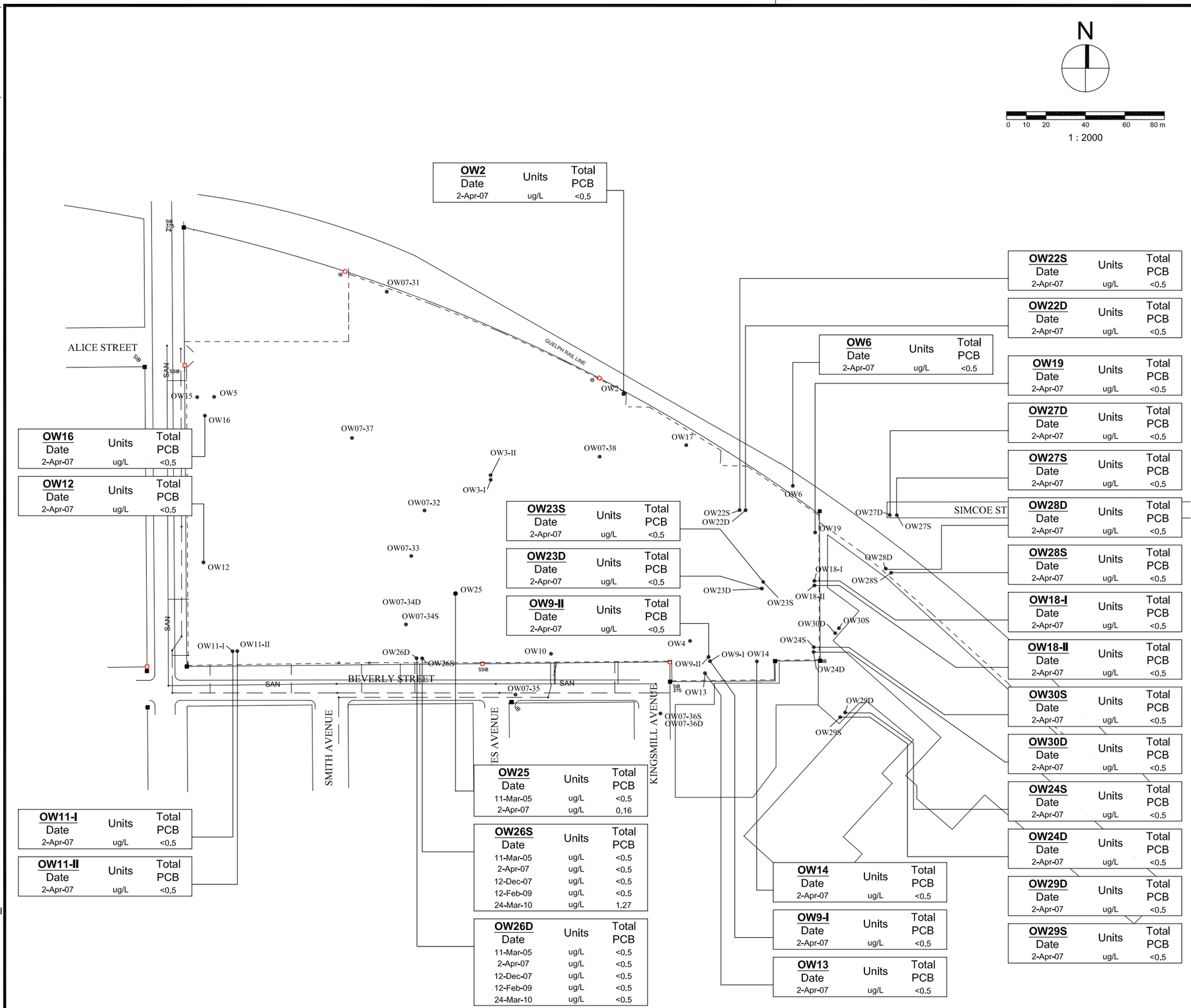
1 : 1000

AECOM

Former IMICO Site

Summary of Historical Petroleum Hydrocarbon Concentrations (PHC)

PROJECT NUMBER	DRAWING NUMBER	ISSUE/REVISION
60149110	7	

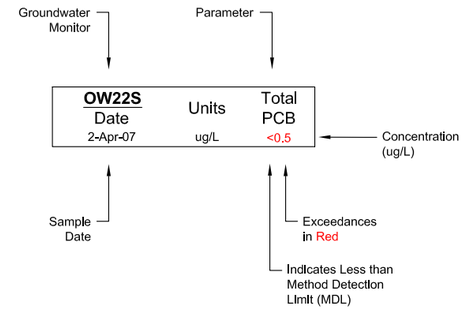


PROPERTY BOUNDARY

OW17 • SAMPLE LOCATION

Concentrations In RED denote an exceedance of the MOE Table 2 Standards for coarse grain soil. The Table 2 Standards for the parameters presented in this figure are shown:

Parameter	Concentration	Units
Total PCB	3	ug/L



AECOM

Former IMICO Site

Summary of Historical Polychlorinated Biphenyl Concentrations (PCB)

PROJECT NUMBER	DRAWING NUMBER	ISSUE/REVISION
60149110	8	

Appendix A

- Groundwater Elevations 2010

AECOM

Table A-1. Groundwater Elevations 2010
Former IMICO Site and 490 York Road Property, City of Guelph

MONITOR	Ground Elevation (mASL)	Top of Pipe Elevation (mASL)	23-Mar-10		3-Jun-10			6-Oct-10			9-Dec-10		
			Water Level (m)	Water Level Elevation (mASL)	Water Level (m)	LNAPL Thickness (m)	Water Level Elevation (mASL)	Water Level (m)	LNAPL Thickness (m)	Water Level Elevation (mASL)	Water Level (m)	LNAPL Thickness (m)	Water Level Elevation (mASL)
OW2	-	315.90	1.91	313.99	2.33	0	313.57	2.30	0	313.60	2.23	0	313.67
OW3-I	-	316.10	2.47	313.63	3.33	0	312.77	3.17	0	312.93	2.73	0	313.37
OW3-II	315.30	316.13	3.24	312.90	3.59	0	312.54	3.38	0	312.75	3.27	0	312.86
OW4	315.70	316.56	3.42	313.14	DRY			3.84	0	312.72	3.70	0	312.86
OW5	314.90	315.82	N/A		3.26	0	312.56	N/A			N/A		
OW6	315.20	316.04	2.30	313.74	2.83	0	313.21	2.73	0	313.31	N/A		
OW9-I	316.10	316.93	3.72	313.21	4.28	0	312.65	4.18	0	312.75	4.04	0	312.89
OW9-II	316.00	316.91	4.04	312.87	4.39	0	312.52	4.28	0	312.63	4.15	0	312.76
OW10	315.30	316.20	3.36	312.84	3.69	0	312.51	3.51	0	312.69	3.4	0	312.80
OW11-I	315.20	315.98	2.61	313.37	3.4	0	312.58	3.27	0	312.71	2.92	0	313.06
OW11-II	315.20	316.05	3.23	312.82	3.59	0	312.46	3.37	0	312.68	N/A		
OW12	315.30	316.18	3.21	312.97	3.64	0	312.54	3.31	0	312.87	3.09	0	313.09
OW13	316.30	317.26	4.21	313.05	4.67	0	312.59	4.57	0	312.69	4.34	0	312.92
OW14	316.20	317.25	3.83	313.42	4.37	0	312.88	4.28	0	312.97	4.15	0	313.10
OW15	314.80	315.79	3.11	312.68	N/A			2.91	0	312.88	2.86	0	312.93
OW16	314.90	315.83	3.08	312.75	3.23	0	312.60	2.99	0	312.84	2.89	0	312.94
OW17	315.40	316.31	2.17	314.14	2.71	0	313.60	2.57	0	313.74	2.39	0	313.92
OW18-I	316.30	316.35	2.28	314.07	2.53	0	313.82	2.54	0	313.81	2.55	0	313.80
OW18-II	316.30	316.34	2.77	313.57	3.3	0	313.04	3.23	0	313.11	3.15	0	313.19
OW19	316.30	316.37	2.14	314.23	N/A			2.60	0	313.77	2.4	0	313.97
OW22(S)	315.00	316.06	N/A		2.35	0	313.71	2.27	0	313.79	2.03	0	314.03
OW22(D)	315.00	316.00	3.15	312.85	3.5	0	312.50	3.38	0	312.62	3.25	0	312.75
OW23(S)	316.30	316.35	N/A		3.07	0.15	313.28	2.94	0.06	313.41	2.89	0.14	313.46
OW23(D)	316.30	316.39	3.49	312.90	4.87	0	311.52	3.76	0	312.63	N/A		
OW24(S)	316.30	316.40	2.79	313.61	3.24	0	313.16	3.19	0	313.21	3.16	0	313.24
OW24(D)	316.30	316.40	2.87	313.53	3.36	0	313.04	3.27	0	313.13	3.25	0	313.15
OW25	315.10	316.05	3.23	312.82	4.57	0	311.48	3.34	0	312.71	3.25	0	312.80
OW26(S)	315.50	316.38	3.58	312.80	3.91	0	312.47	3.64	0	312.74	3.59	0	312.79
OW26(D)	315.50	316.24	3.50	312.75	4.83	0	311.41	3.56	0	312.68	3.51	0	312.73
OW27(S)	315.80	315.44	1.34	314.10	1.73	0	313.71	1.70	0	313.74	3.05	0	312.39
OW27(D)	315.80	315.50	2.72	312.79	2.86	0	312.64	N/A			1.61	0	313.89
OW28(S)	315.48	316.38	2.50	313.88	3.15	0	313.23	3.13	0	313.25	2.97	0	313.41
OW28(D)	315.53	316.43	3.52	312.91	3.83	0	312.60	5.59	0	310.84	4.21	0	312.22
OW29(S)	317.16	317.11	3.73	313.38	4.23	0	312.88	4.21	0	312.90	N/A		
OW29(D)	317.14	317.09	4.11	312.98	5.45	0	311.64	4.66	0	312.43	4.52	0	312.57
OW30(S)	316.51	316.46	2.72	313.74	3.045	0	313.42	3.08	0	313.38	N/A		
OW30(D)	316.60	316.55	3.49	313.06	N/A			4.00	0	312.55	N/A		
OW07-31*	315.14	315.93	N/A		N/A			N/A			N/A		

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Table A-1. Groundwater Elevations 2010
Former IMICO Site and 490 York Road Property, City of Guelph

MONITOR	Ground Elevation (mASL)	Top of Pipe Elevation (mASL)	23-Mar-10		3-Jun-10			6-Oct-10			9-Dec-10		
			Water Level (m)	Water Level Elevation (mASL)	Water Level (m)	LNAPL Thickness (m)	Water Level Elevation (mASL)	Water Level (m)	LNAPL Thickness (m)	Water Level Elevation (mASL)	Water Level (m)	LNAPL Thickness (m)	Water Level Elevation (mASL)
OW07-32*	316.00	316.67	3.39	313.28	3.72	0	312.95	3.50	0	313.17	3.4	0	313.27
OW07-33*	315.36	316.23	3.39	312.84	3.72	0	312.51	3.50	0	312.73	3.4	0	312.83
OW07-34S*	315.68	316.50	3.60	312.90	3.94	0	312.56	3.74	0	312.76	3.62	0	312.88
OW07-34D*	315.85	316.62	3.50	313.12	3.83	0	312.79	3.63	0	312.99	3.51	0	313.11
OW07-35*	315.50	315.50	N/A		2.88	0	312.62	N/A			N/A		
OW07-36S*	316.40	316.40	N/A		3.75	0	312.65	3.72	0	312.68	N/A		
OW07-36D*	316.40	316.40	N/A		3.88	0	312.52	3.61	0	312.79	N/A		
OW07-37*	315.79	316.53	3.50	313.03	3.85	0	312.68	3.61	0	312.92	3.51	0	313.02
OW07-38*	315.74	316.60	2.45	314.15	3.05	0	313.55	2.96	0	313.64	2.75	0	313.85

Notes:
BTOP - Below top of pipe.
m ASL = metres above sea level.
Measuring Point Elevation - Top of riser pipe.
Survey completed by The City of Guelph on March 12, 2004.
NA = Not Available = --.

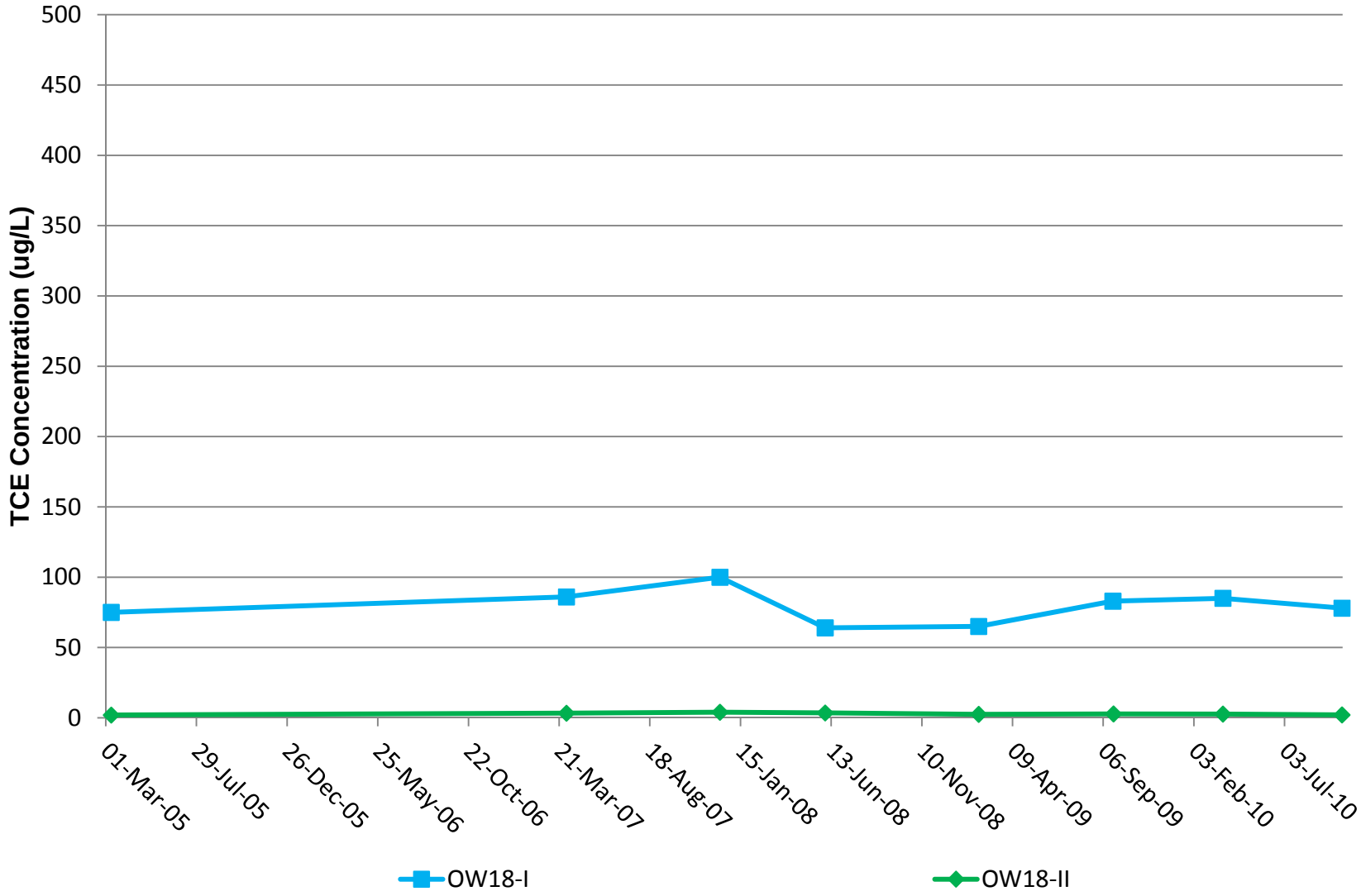
Appendix B

- Groundwater Chemistry Parameters Analyzed in 2010
- Groundwater Chemistry Results

Table B-1 Groundwater Analytical Parameter List 2010
Former IMICO, 200 Beverly Street, Guelph, ON

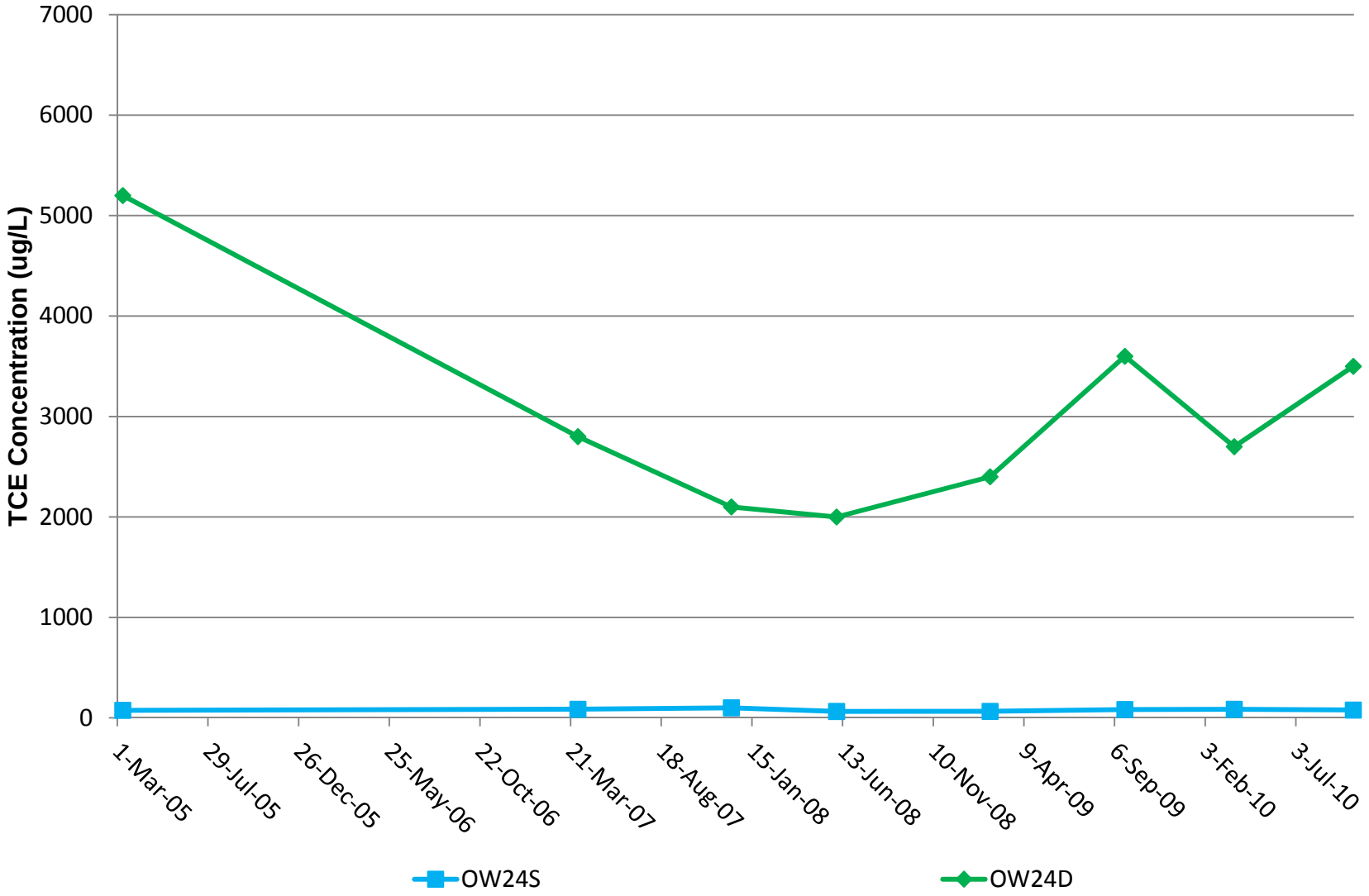
Well	General Chemistry	Metals	VOCs	SVOCs	TPH	PCBs
OW2	X	X	X	X	X	
OW3	Monitoring Discontinued - Waterlevel Measurement Only					
OW3-I	Monitoring Discontinued - Waterlevel Measurement Only					
OW4	Monitoring Discontinued - Waterlevel Measurement Only					
OW5	Monitoring Discontinued - Waterlevel Measurement Only					
OW6	X	X	X	X	X	
OW9-I	X	X	X		X	
OW9-II	X	X	X		X	
OW10	X	X	X		X	
OW11-I	X	X	X		X	
OW11-II	X	X				
OW12	X	X	X			
OW13	X	X	X		X	
OW14	X	X	X		X	
OW15	Monitoring Discontinued - Waterlevel Measurement Only					
OW16	X	X			X	
OW17	Monitoring Discontinued - Waterlevel Measurement Only					
OW18-I	X	X	X	X	X	
OW18-II	X	X	X	X	X	
OW19	X	X	X	X	X	
OW22 (s)	X	X	X			
OW22 (d)	X	X	X	X	X	
OW23 (s)	X	X	X			
OW23 (d)	X	X	X	X	X	
OW24 (s)	X	X	X	X	X	
OW24 (d)	X	X	X	X	X	
OW25	X	X	X	X	X	
OW26 (s)	X	X	X	X	X	X*
OW26 (d)	X	X	X	X	X	X*
OW27 (s)	X	X	X	X	X	
OW27 (d)	X	X	X	X	X	
Trip Blank			X			
OW28 (s)	X	X	X	X	X	
OW28 (d)	X	X	X	X	X	
OW29 (s)	X	X	X	X	X	
OW29 (d)	X	X	X	X	X	
OW30 (s)	X	X	X	X	X	
OW30 (d)	X	X	X	X	X	
Duplicate (OW**)	X	X	X	X	X	X*
Duplicate (OW**)	X	X	X		X	

General Chemistry : pH, Conductivity, Alkalinity
Major Ions: Fluoride, Chloride, Nitrate, Nitrite, Bromide, Phosphate, Sulfate, Ca, K, Mg, Na
Metals: As, Pb, Zn
VOCs: 624 EPA
SVOCs: PAHs
TPH: Heavy Oils and Gas/Diesel
* reduced scope to include one sample for PCBs per year for each well indicated.



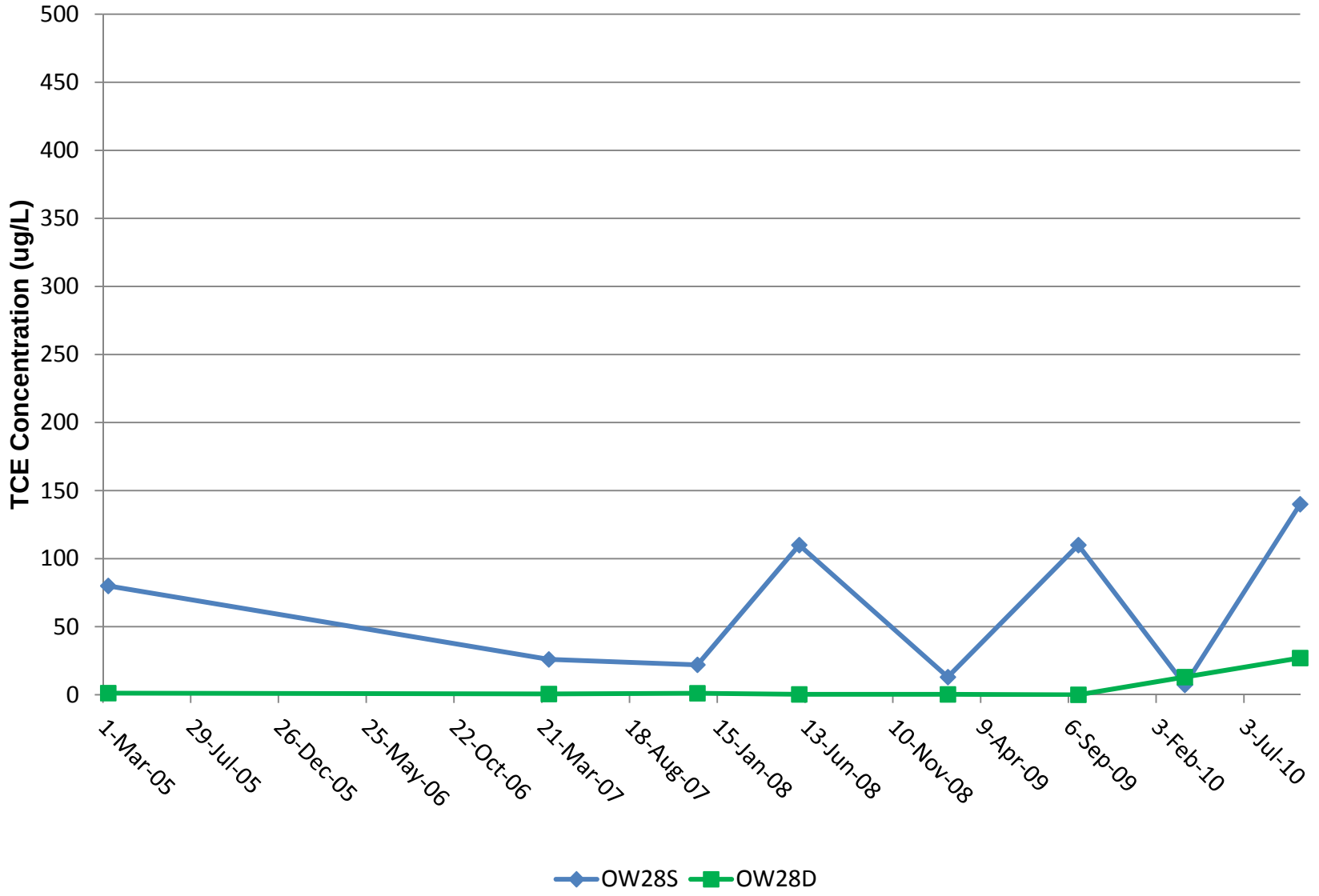
AECOM

TCE Concentration over Time OW24S & OW24D



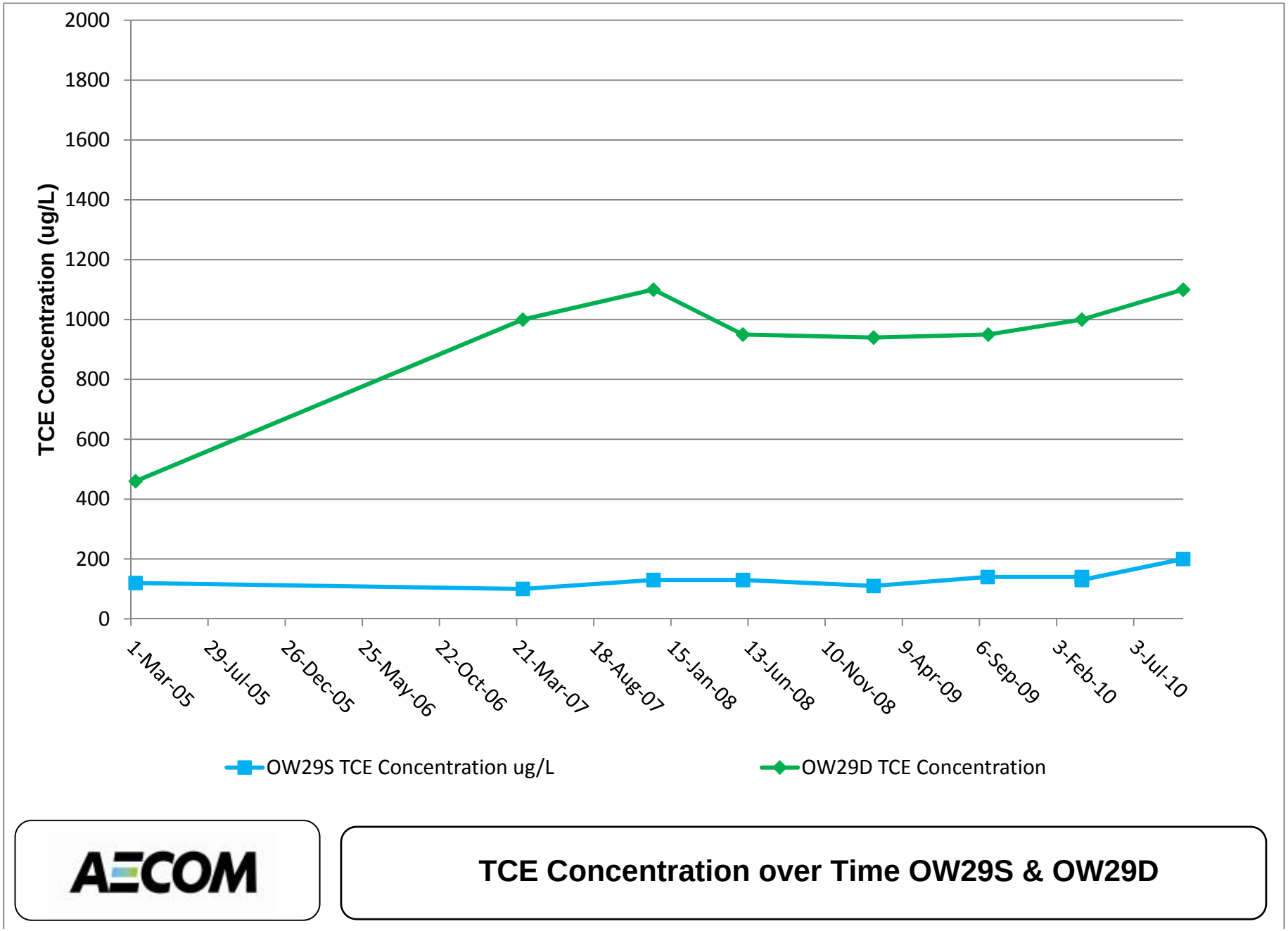
AECOM

TCE Concentration over Time OW24S & OW24D



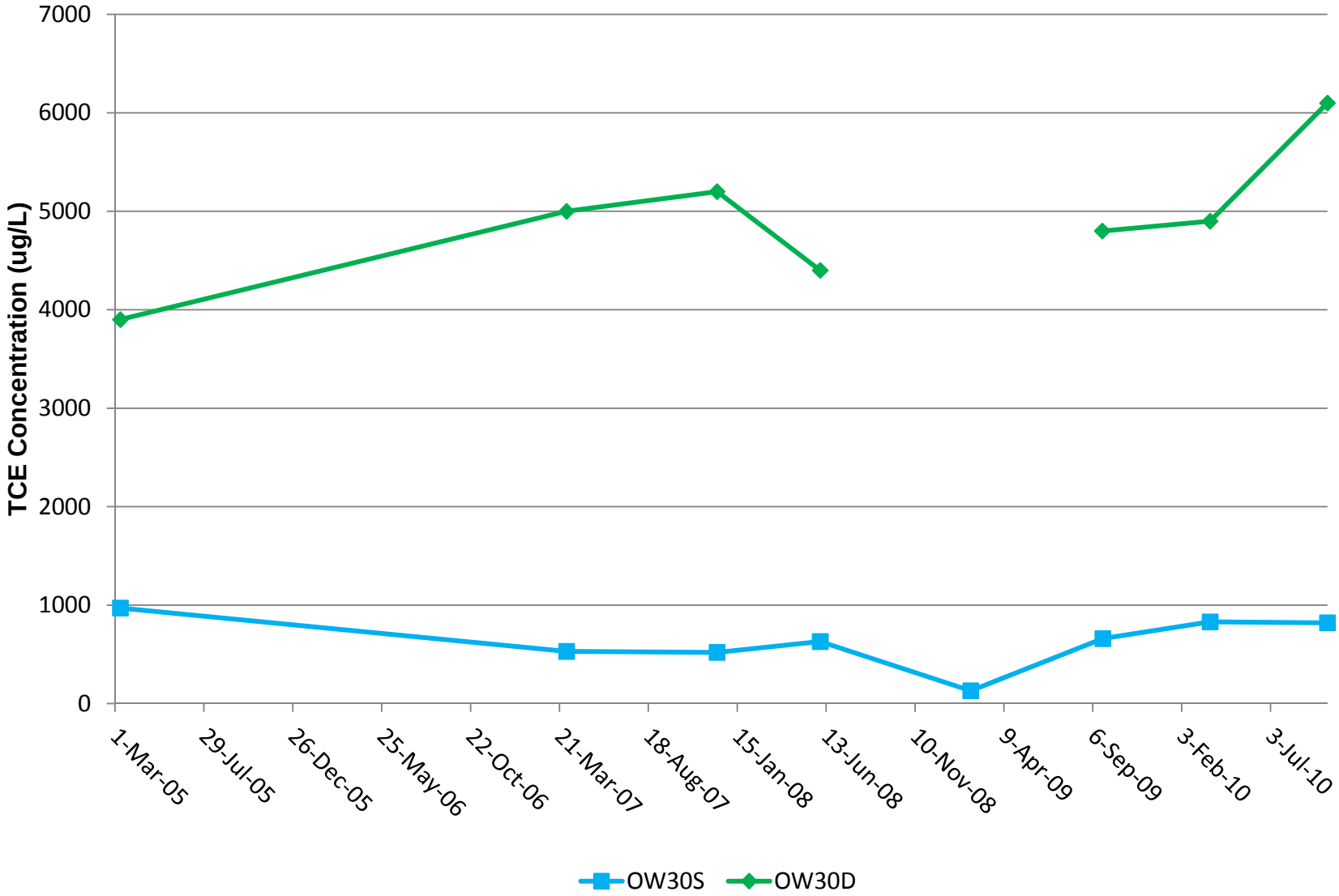
AECOM

TCE Concentration over Time OW28S & OW28D



AECOM

TCE Concentration over Time OW29S & OW29D



AECOM

TCE Concentration over Time OW30S & OW30D

Your Project #: IMICO Sept. Sampling
Site: IMICO SITE
Your C.O.C. #: 21496204, 214962-04-01, 214962-03-01

Attention: Albanie Tremblay
AECOM Canada Ltd
512 Woolwich St
Suite 2
Guelph, ON
N1H 3X7

Report Date: 2010/10/20

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0E3110
Received: 2010/10/08, 17:55

Sample Matrix: Water
Samples Received: 18

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Alkalinity	18	N/A	2010/10/14	CAM SOP-00448	SM 2320B
Anions	18	N/A	2010/10/15	CAM SOP-00435	SM 4110B
Conductivity	18	N/A	2010/10/14	CAM SOP-00448	SM 2510
Petroleum Hydro. CCME F1 & BTEX in Water	1	N/A	2010/10/15	CAM SOP-00315	CCME CWS
Petroleum Hydro. CCME F1 & BTEX in Water	14	N/A	2010/10/16	CAM SOP-00315	CCME CWS
Petroleum Hydrocarbons F2-F4 in Water	6	2010/10/15	2010/10/15	CAM SOP-00316	CCME Hydrocarbons
Petroleum Hydrocarbons F2-F4 in Water	9	2010/10/15	2010/10/16	CAM SOP-00316	CCME Hydrocarbons
Petroleum Hydrocarbons F2-F4 in Water	1	2010/10/15	2010/10/19	CAM SOP-00316	CCME Hydrocarbons
Fluoride	18	2010/10/14	2010/10/14	CAM SOP-00448	APHA 4500FC
Dissolved Metals by ICPMS	17	N/A	2010/10/14	CAM SOP-00447	EPA 6020
Dissolved Metals by ICPMS	1	N/A	2010/10/15	CAM SOP-00447	EPA 6020
Nitrate (NO3) and Nitrite (NO2) in Water (1)	18	N/A	2010/10/14	CAM SOP-00440	SM 4500 NO3I/NO2B
PAH Compounds in Water by GC/MS (SIM)	10	2010/10/14	2010/10/15	CAM SOP-00318	EPA 8270
pH	18	N/A	2010/10/14	CAM SOP-00448	SM 4500H
Orthophosphate	18	N/A	2010/10/15	CAM SOP-00461	SM 4500 P-F
Volatile Organic Compounds in Water	16	N/A	2010/10/18	CAM SOP-00226	EPA 8260 modified
Volatile Organic Compounds in Water	1	N/A	2010/10/20	CAM SOP-00226	EPA 8260 modified

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
* Results relate only to the items tested.

(1) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

Encryption Key

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

MARIJANE CRUZ, Project Manager
Email: MCruz@maxxam.ca
Phone# (905) 817-5756

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Total cover pages: 1

Maxxam Job #: B0E3110
Report Date: 2010/10/20

AECOM Canada Ltd
Client Project #: IMICO Sept. Sampling
Project name: IMICO SITE

RESULTS OF ANALYSES OF WATER

Maxxam ID		HL5630			HL5631		HL5632		HL5633		
Sampling Date		2010/10/07			2010/10/07		2010/10/07		2010/10/07		
	Units	**OW29S**	**RDL**	**QC Batch**	**MW**	**QC Batch**	**OW28S**	**QC Batch**	**OW28D**	**RDL**	**QC Batch**
Inorganics											
Conductivity	umho/cm	2250	1	2296858	929	2296803	632	2296858	926	1	2296803
Fluoride (F-)	mg/L	0.5	0.1	2296841	0.7	2296805	0.3	2296841	0.7	0.1	2296805
Orthophosphate (P)	mg/L	<0.01	0.01	2297563	<0.01	2297555	<0.01	2297563	<0.01	0.01	2297555
pH	pH	7.7		2296865	7.4	2296802	7.8	2296865	7.6		2296802
Alkalinity (Total as CaCO3)	mg/L	296	1	2296861	323	2296790	281	2296861	299	1	2296790
Nitrite (N)	mg/L	<0.01	0.01	2296879	<0.01	2297131	<0.01	2296879	<0.01	0.01	2297131
Dissolved Chloride (Cl)	mg/L	543	5	2296873	37	2297000	17	2296873	60	1	2297000
Nitrate (N)	mg/L	1.3	0.1	2296879	<0.1	2297131	1.7	2296879	<0.1	0.1	2297131
Dissolved Bromide (Br-)	mg/L	<1	1	2296873	<1	2297000	<1	2296873	<1	1	2297000
Dissolved Sulphate (SO4)	mg/L	31	1	2296873	127	2297000	30	2296873	109	1	2297000

Maxxam ID		HL5634		HL5635		HL5636		HL5637	HL5659		
Sampling Date		2010/10/07		2010/10/07		2010/10/07		2010/10/07	2010/10/07		
	Units	**OW30D**	**QC Batch**	**OW30S**	**QC Batch**	**OW25**	**QC Batch**	**OW6**	**OW9-I**	**RDL**	**QC Batch**
Inorganics											
Conductivity	umho/cm	871	2296858	1160	2297009	689	2297009	1560	848	1	2296858
Fluoride (F-)	mg/L	0.4	2296841	0.4	2297010	0.2	2297010	1.7	2.3	0.1	2296841
Orthophosphate (P)	mg/L	<0.01	2297563	<0.01	2297555	0.10	2297555	<0.01	<0.01	0.01	2297563
pH	pH	7.8	2296865	7.7	2297008	7.7	2297008	7.6	7.4		2296865
Alkalinity (Total as CaCO3)	mg/L	283	2296861	319	2297007	350	2297007	255	404	1	2296861
Nitrite (N)	mg/L	<0.01	2296879	<0.01	2297128	<0.01	2297131	0.01	<0.01	0.01	2296879
Dissolved Chloride (Cl)	mg/L	53	2296873	160	2297000	2	2297000	177	7	1	2296873
Nitrate (N)	mg/L	<0.1	2296879	<0.1	2297128	<0.1	2297131	0.1	<0.1	0.1	2296879
Dissolved Bromide (Br-)	mg/L	<1	2296873	<1	2297000	<1	2297000	<1	<1	1	2296873
Dissolved Sulphate (SO4)	mg/L	100	2296873	30	2297000	30	2297000	306	56	1	2296873

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B0E3110
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AECOM Canada Ltd
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RESULTS OF ANALYSES OF WATER

Maxxam ID		HL5660		HL5661		HL5662		HL5663		HL5664		
Sampling Date		2010/10/07		2010/10/07		2010/10/07		2010/10/07		2010/10/07		
	Units	**OW14**	**QC Batch**	**OW9-II**	**QC Batch**	**OW23S**	**QC Batch**	**OW23D**	**QC Batch**	**OW2**	**RDL**	**QC Batch**
Inorganics												
Conductivity	umho/cm	902	2296803	900	2296803	956	2296858	933	2296803	980	1	2297009
Fluoride (F-)	mg/L	3.9	2296805	0.8	2296805	0.5	2296841	0.6	2296805	0.6	0.1	2297010
Orthophosphate (P)	mg/L	<0.01	2297555	<0.01	2297555	<0.01	2297563	<0.01	2297555	<0.01	0.01	2297555
pH	pH	7.5	2296802	7.4	2296802	7.4	2296865	7.4	2296802	7.6		2297008
Alkalinity (Total as CaCO3)	mg/L	312	2296790	359	2296790	518	2296861	327	2296790	369	1	2297007
Nitrite (N)	mg/L	<0.01	2297113	<0.01	2297131	<0.01	2296879	<0.01	2297131	<0.01	0.01	2297128
Dissolved Chloride (Cl)	mg/L	12	2297000	34	2297000	<1	2296873	39	2297000	4	1	2297000
Nitrate (N)	mg/L	<0.1	2297113	<0.1	2297131	<0.1	2296879	<0.1	2297131	<0.1	0.1	2297128
Dissolved Bromide (Br-)	mg/L	<1	2297000	<1	2297000	<1	2296873	<1	2297000	<1	1	2297000
Dissolved Sulphate (SO4)	mg/L	158	2297000	84	2297000	9	2296873	115	2297000	180	1	2297000

Maxxam ID		HL5665		HL5666		HL5667		HL5668		
Sampling Date		2010/10/07		2010/10/07		2010/10/07		2010/10/07		
	Units	**OW16**	**QC Batch**	**OW13**	**QC Batch**	**OW12**	**QC Batch**	**OW29D**	**RDL**	**QC Batch**
Inorganics										
Conductivity	umho/cm	929	2296858	815	2297009	664	2296858	999	1	2296803
Fluoride (F-)	mg/L	0.1	2296841	2.0	2297010	0.4	2296841	0.6	0.1	2296805
Orthophosphate (P)	mg/L	<0.01	2297563	<0.01	2297555	<0.01	2297563	<0.01	0.01	2297555
pH	pH	7.6	2296865	7.6	2297008	7.7	2296865	7.6		2296802
Alkalinity (Total as CaCO3)	mg/L	264	2296861	324	2297007	340	2296861	331	1	2296790
Nitrite (N)	mg/L	<0.01	2296879	<0.01	2297131	<0.01	2296879	0.01	0.01	2297131
Dissolved Chloride (Cl)	mg/L	92	2296873	24	2297000	2	2296873	94	1	2297000
Nitrate (N)	mg/L	0.3	2296879	<0.1	2297131	0.2	2296879	0.1	0.1	2297131
Dissolved Bromide (Br-)	mg/L	1	2296873	<1	2297000	<1	2296873	<1	1	2297000
Dissolved Sulphate (SO4)	mg/L	91	2296873	87	2297000	22	2296873	55	1	2297000

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B0E3110
Report Date: 2010/10/20

AECOM Canada Ltd
Client Project #: IMICO Sept. Sampling
Project name: IMICO SITE

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		HL5630	HL5631		HL5632	HL5633		HL5634	HL5635		
Sampling Date		2010/10/07	2010/10/07		2010/10/07	2010/10/07		2010/10/07	2010/10/07		
	Units	**OW29S**	**MW**	**QC Batch**	**OW28S**	**OW28D**	**QC Batch**	**OW30D**	**OW30S**	**RDL**	**QC Batch**
Metals											
Dissolved Arsenic (As)	ug/L	<1	16	2297214	<1	2	2297451	3	<1	1	2297214
Dissolved Calcium (Ca)	ug/L	130000	140000	2297214	86000	110000	2297451	110000	120000	200	2297214
Dissolved Lead (Pb)	ug/L	<0.5	1.0	2297214	<0.5	<0.5	2297451	<0.5	<0.5	0.5	2297214
Dissolved Magnesium (Mg)	ug/L	26000	28000	2297214	19000	31000	2297451	27000	23000	50	2297214
Dissolved Potassium (K)	ug/L	3500	4800	2297214	1700	3400	2297451	2600	4100	200	2297214
Dissolved Sodium (Na)	ug/L	300000	24000	2297214	8600	33000	2297451	32000	97000	100	2297214
Dissolved Zinc (Zn)	ug/L	830	690	2297214	630	25	2297451	230	810	5	2297214

Maxxam ID		HL5636	HL5637	HL5659		HL5660		HL5661		HL5662		
Sampling Date		2010/10/07	2010/10/07	2010/10/07		2010/10/07		2010/10/07		2010/10/07		
	Units	**OW25**	**OW6**	**OW9-I**	**QC Batch**	**OW14**	**QC Batch**	**OW9-II**	**QC Batch**	**OW23S**	**RDL**	**QC Batch**
Metals												
Dissolved Arsenic (As)	ug/L	<1	1	1	2297451	<1	2297214	23	2297477	1	1	2297214
Dissolved Calcium (Ca)	ug/L	98000	190000	140000	2297451	140000	2297214	130000	2297477	160000	200	2297214
Dissolved Lead (Pb)	ug/L	<0.5	<0.5	<0.5	2297451	<0.5	2297214	10	2297477	<0.5	0.5	2297214
Dissolved Magnesium (Mg)	ug/L	24000	20000	24000	2297451	35000	2297214	28000	2297477	25000	50	2297214
Dissolved Potassium (K)	ug/L	8600	7200	5700	2297451	6000	2297214	5200	2297477	11000	200	2297214
Dissolved Sodium (Na)	ug/L	7100	99000	5900	2297451	6600	2297214	21000	2301175	9500	100	2297214
Dissolved Zinc (Zn)	ug/L	9	2300	1800	2297451	3700	2297214	710	2297477	7	5	2297214

Maxxam ID		HL5663	HL5664	HL5665		HL5666		HL5667		HL5668		
Sampling Date		2010/10/07	2010/10/07	2010/10/07		2010/10/07		2010/10/07		2010/10/07		
	Units	**OW23D**	**OW2**	**OW16**	**QC Batch**	**OW13**	**QC Batch**	**OW12**	**QC Batch**	**OW29D**	**RDL**	**QC Batch**
Metals												
Dissolved Arsenic (As)	ug/L	17	<1	<1	2297214	7	2297451	<1	2297214	<1	1	2297451
Dissolved Calcium (Ca)	ug/L	130000	150000	140000	2297214	120000	2297451	110000	2297214	120000	200	2297451
Dissolved Lead (Pb)	ug/L	1.1	<0.5	2.4	2297214	<0.5	2297451	<0.5	2297214	1.7	0.5	2297451
Dissolved Magnesium (Mg)	ug/L	28000	37000	20000	2297214	25000	2297451	22000	2297214	23000	50	2297451
Dissolved Potassium (K)	ug/L	4600	9300	1100	2297214	4500	2297451	4200	2297214	5200	200	2297451
Dissolved Sodium (Na)	ug/L	24000	5900	22000	2297214	16000	2297451	4000	2297214	45000	100	2297451
Dissolved Zinc (Zn)	ug/L	670	480	200	2297214	1900	2297451	910	2297214	1000	5	2297451

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B0E3110
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AECOM Canada Ltd
Client Project #: IMICO Sept. Sampling
Project name: IMICO SITE

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HL5630	HL5632	HL5633	HL5634	HL5635		
Sampling Date		2010/10/07	2010/10/07	2010/10/07	2010/10/07	2010/10/07		
	Units	**OW29S**	**OW28S**	**OW28D**	**OW30D**	**OW30S**	**RDL**	**QC Batch**
Polyaromatic Hydrocarbons								
Acenaphthene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2296779
Acenaphthylene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2296779
Anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2296779
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2296779
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	0.02	0.04	0.01	2296779
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.06	0.05	2296779
Benzo(g,h,i)perylene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2296779
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2296779
Chrysene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2296779
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2296779
Fluoranthene	ug/L	<0.05	<0.05	<0.05	0.05	0.11	0.05	2296779
Fluorene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2296779
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2296779
1-Methylnaphthalene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2296779
2-Methylnaphthalene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2296779
Naphthalene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2296779
Phenanthrene	ug/L	<0.03	<0.03	<0.03	0.05	0.06	0.03	2296779
Pyrene	ug/L	<0.05	<0.05	<0.05	<0.05	0.09	0.05	2296779
Surrogate Recovery (%)								
D10-Anthracene	%	90	94	91	91	93		2296779
D14-Terphenyl (FS)	%	97	98	97	94	96		2296779
D7-Quinoline	%	78	77	72	70	81		2296779
D8-Acenaphthylene	%	73	67	63	67	74		2296779

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B0E3110
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AECOM Canada Ltd
Client Project #: IMICO Sept. Sampling
Project name: IMICO SITE

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HL5636	HL5637	HL5663	HL5664	HL5668		
Sampling Date		2010/10/07	2010/10/07	2010/10/07	2010/10/07	2010/10/07		
	Units	**OW25**	**OW6**	**OW23D**	**OW2**	**OW29D**	**RDL**	**QC Batch**
Polyaromatic Hydrocarbons								
Acenaphthene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2296779
Acenaphthylene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2296779
Anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2296779
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2296779
Benzo(a)pyrene	ug/L	1.0	<0.01	<0.01	<0.01	<0.01	0.01	2296779
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2296779
Benzo(g,h,i)perylene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2296779
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2296779
Chrysene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2296779
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2296779
Fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2296779
Fluorene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2296779
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2296779
1-Methylnaphthalene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2296779
2-Methylnaphthalene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2296779
Naphthalene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2296779
Phenanthrene	ug/L	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	2296779
Pyrene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2296779
Surrogate Recovery (%)								
D10-Anthracene	%	93	92	88	93	90		2296779
D14-Terphenyl (FS)	%	94	97	94	99	94		2296779
D7-Quinoline	%	86	83	87	80	78		2296779
D8-Acenaphthylene	%	84	78	77	72	70		2296779

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B0E3110
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AECOM Canada Ltd
Client Project #: IMICO Sept. Sampling
Project name: IMICO SITE

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		HL5630		HL5631		HL5632		HL5633		HL5634		
Sampling Date		2010/10/07		2010/10/07		2010/10/07		2010/10/07		2010/10/07		
	Units	**OW29S**	**RDL**	**MW**	**RDL**	**OW28S**	**RDL**	**OW28D**	**RDL**	**OW30D**	**RDL**	**QC Batch**
Volatile Organics												
Acetone (2-Propanone)	ug/L	<100	100	<20	20	<50	50	<100	100	<5000	5000	2296991
Benzene	ug/L	<1	1	1.5	0.2	<0.5	0.5	<1	1	<50	50	2296991
Bromodichloromethane	ug/L	<1	1	<0.2	0.2	<0.5	0.5	<1	1	<50	50	2296991
Bromoform	ug/L	<2	2	<0.4	0.4	<1	1	<2	2	<100	100	2296991
Bromomethane	ug/L	<5	5	<1	1	<3	3	<5	5	<300	300	2296991
Carbon Tetrachloride	ug/L	<1	1	<0.2	0.2	<0.5	0.5	<1	1	<50	50	2296991
Chlorobenzene	ug/L	<1	1	<0.2	0.2	<0.5	0.5	<1	1	<50	50	2296991
Chloroform	ug/L	<1	1	<0.2	0.2	<0.5	0.5	<1	1	<50	50	2296991
Dibromochloromethane	ug/L	<2	2	<0.4	0.4	<1	1	<2	2	<100	100	2296991
1,2-Dichlorobenzene	ug/L	<2	2	<0.4	0.4	<1	1	<2	2	<100	100	2296991
1,3-Dichlorobenzene	ug/L	<2	2	<0.4	0.4	<1	1	<2	2	<100	100	2296991
1,4-Dichlorobenzene	ug/L	<2	2	<0.4	0.4	<1	1	<2	2	<100	100	2296991
1,1-Dichloroethane	ug/L	<1	1	<0.2	0.2	<0.5	0.5	<1	1	<50	50	2296991
1,2-Dichloroethane	ug/L	<2	2	<0.4	0.4	<1	1	<2	2	<100	100	2296991
1,1-Dichloroethylene	ug/L	<1	1	<0.2	0.2	<0.5	0.5	2	1	<50	50	2296991
cis-1,2-Dichloroethylene	ug/L	9	1	24	0.2	2.1	0.5	280	1	500	50	2296991
trans-1,2-Dichloroethylene	ug/L	<1	1	0.4	0.2	<0.5	0.5	2	1	<50	50	2296991
1,2-Dichloropropane	ug/L	<1	1	<0.2	0.2	<0.5	0.5	<1	1	<50	50	2296991
cis-1,3-Dichloropropene	ug/L	<2	2	<0.4	0.4	<1	1	<2	2	<100	100	2296991
trans-1,3-Dichloropropene	ug/L	<2	2	<0.4	0.4	<1	1	<2	2	<100	100	2296991
Ethylbenzene	ug/L	<1	1	<0.2	0.2	<0.5	0.5	<1	1	<50	50	2296991
Ethylene Dibromide	ug/L	<2	2	<0.4	0.4	<1	1	<2	2	<100	100	2296991
Methylene Chloride(Dichloromethane)	ug/L	<5	5	<1	1	<3	3	<5	5	<300	300	2296991
Methyl Isobutyl Ketone	ug/L	<50	50	<10	10	<30	30	<50	50	<3000	3000	2296991
Methyl Ethyl Ketone (2-Butanone)	ug/L	<50	50	<10	10	<30	30	<50	50	<3000	3000	2296991
Methyl t-butyl ether (MTBE)	ug/L	<2	2	<0.4	0.4	<1	1	<2	2	<100	100	2296991
Styrene	ug/L	<2	2	<0.4	0.4	<1	1	<2	2	<100	100	2296991
1,1,1,2-Tetrachloroethane	ug/L	<1	1	<0.2	0.2	<0.5	0.5	<1	1	<50	50	2296991
1,1,2,2-Tetrachloroethane	ug/L	<2	2	<0.4	0.4	<1	1	<2	2	<100	100	2296991
Tetrachloroethylene	ug/L	<1	1	<0.2	0.2	<0.5	0.5	<1	1	<50	50	2296991
Toluene	ug/L	<2	2	<0.4	0.4	<1	1	<2	2	<100	100	2296991
1,1,1-Trichloroethane	ug/L	<1	1	<0.2	0.2	<0.5	0.5	<1	1	<50	50	2296991
1,1,2-Trichloroethane	ug/L	<2	2	<0.4	0.4	<1	1	<2	2	<100	100	2296991
Trichloroethylene	ug/L	200	1	1.4	0.2	140	0.5	27	1	6100	50	2296991
Vinyl Chloride	ug/L	<2	2	6.1	0.4	<1	1	21	2	<100	100	2296991

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B0E3110
Report Date: 2010/10/20

AECOM Canada Ltd
Client Project #: IMICO Sept. Sampling
Project name: IMICO SITE

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		HL5630		HL5631		HL5632		HL5633		HL5634		
Sampling Date		2010/10/07		2010/10/07		2010/10/07		2010/10/07		2010/10/07		
	Units	**OW29S**	**RDL**	**MW**	**RDL**	**OW28S**	**RDL**	**OW28D**	**RDL**	**OW30D**	**RDL**	**QC Batch**
p+m-Xylene	ug/L	<1	1	<0.2	0.2	<0.5	0.5	<1	1	<50	50	2296991
o-Xylene	ug/L	<1	1	<0.2	0.2	<0.5	0.5	<1	1	<50	50	2296991
Xylene (Total)	ug/L	<1	1	<0.2	0.2	<0.5	0.5	<1	1	<50	50	2296991
Chloroethane	ug/L	<2	2	<0.4	0.4	<1	1	<2	2	<100	100	2296991
Chloromethane	ug/L	<5	5	<1	1	<3	3	<5	5	<300	300	2296991
Trichlorofluoromethane (FREON 11)	ug/L	<2	2	<0.4	0.4	<1	1	<2	2	<100	100	2296991
Surrogate Recovery (%)												
4-Bromofluorobenzene	%	106		110		107		108		105		2296991
D4-1,2-Dichloroethane	%	120		118		121		121		116		2296991
D8-Toluene	%	103		100		101		102		103		2296991

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B0E3110
Report Date: 2010/10/20

AECOM Canada Ltd
Client Project #: IMICO Sept. Sampling
Project name: IMICO SITE

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		HL5635		HL5636		HL5637		HL5659		
Sampling Date		2010/10/07		2010/10/07		2010/10/07		2010/10/07		
	Units	**OW30S**	**RDL**	**OW25**	**RDL**	**OW6**	**RDL**	**OW9-I**	**RDL**	**QC Batch**
Volatile Organics										
Acetone (2-Propanone)	ug/L	<500	500	<10	10	<40	40	<100	100	2296991
Benzene	ug/L	<5	5	<0.1	0.1	<0.4	0.4	<1	1	2296991
Bromodichloromethane	ug/L	<5	5	<0.1	0.1	<0.4	0.4	<1	1	2296991
Bromoform	ug/L	<10	10	<0.2	0.2	<0.8	0.8	<2	2	2296991
Bromomethane	ug/L	<30	30	<0.5	0.5	<2	2	<5	5	2296991
Carbon Tetrachloride	ug/L	<5	5	<0.1	0.1	<0.4	0.4	<1	1	2296991
Chlorobenzene	ug/L	<5	5	<0.1	0.1	<0.4	0.4	<1	1	2296991
Chloroform	ug/L	<5	5	<0.1	0.1	<0.4	0.4	<1	1	2296991
Dibromochloromethane	ug/L	<10	10	<0.2	0.2	<0.8	0.8	<2	2	2296991
1,2-Dichlorobenzene	ug/L	<10	10	<0.2	0.2	<0.8	0.8	<2	2	2296991
1,3-Dichlorobenzene	ug/L	<10	10	<0.2	0.2	<0.8	0.8	<2	2	2296991
1,4-Dichlorobenzene	ug/L	<10	10	<0.2	0.2	<0.8	0.8	<2	2	2296991
1,1-Dichloroethane	ug/L	<5	5	0.2	0.1	<0.4	0.4	<1	1	2296991
1,2-Dichloroethane	ug/L	<10	10	<0.2	0.2	<0.8	0.8	<2	2	2296991
1,1-Dichloroethylene	ug/L	<5	5	<0.1	0.1	<0.4	0.4	<1	1	2296991
cis-1,2-Dichloroethylene	ug/L	31	5	0.7	0.1	2.5	0.4	<1	1	2296991
trans-1,2-Dichloroethylene	ug/L	<5	5	0.2	0.1	<0.4	0.4	<1	1	2296991
1,2-Dichloropropane	ug/L	<5	5	<0.1	0.1	<0.4	0.4	<1	1	2296991
cis-1,3-Dichloropropene	ug/L	<10	10	<0.2	0.2	<0.8	0.8	<2	2	2296991
trans-1,3-Dichloropropene	ug/L	<10	10	<0.2	0.2	<0.8	0.8	<2	2	2296991
Ethylbenzene	ug/L	<5	5	<0.1	0.1	<0.4	0.4	<1	1	2296991
Ethylene Dibromide	ug/L	<10	10	<0.2	0.2	<0.8	0.8	<2	2	2296991
Methylene Chloride(Dichloromethane)	ug/L	<30	30	<0.5	0.5	<2	2	<5	5	2296991
Methyl Isobutyl Ketone	ug/L	<300	300	<5	5	<20	20	<50	50	2296991
Methyl Ethyl Ketone (2-Butanone)	ug/L	<300	300	<5	5	<20	20	<50	50	2296991
Methyl t-butyl ether (MTBE)	ug/L	<10	10	<0.2	0.2	<0.8	0.8	<2	2	2296991
Styrene	ug/L	<10	10	<0.2	0.2	<0.8	0.8	<2	2	2296991
1,1,1,2-Tetrachloroethane	ug/L	<5	5	<0.1	0.1	<0.4	0.4	<1	1	2296991
1,1,2,2-Tetrachloroethane	ug/L	<10	10	<0.2	0.2	<0.8	0.8	<2	2	2296991
Tetrachloroethylene	ug/L	<5	5	<0.1	0.1	<0.4	0.4	<1	1	2296991
Toluene	ug/L	<10	10	<0.2	0.2	<0.8	0.8	<2	2	2296991
1,1,1-Trichloroethane	ug/L	<5	5	0.6	0.1	<0.4	0.4	<1	1	2296991
1,1,2-Trichloroethane	ug/L	<10	10	<0.2	0.2	<0.8	0.8	<2	2	2296991
Trichloroethylene	ug/L	820	5	3.1	0.1	3.2	0.4	<1	1	2296991
Vinyl Chloride	ug/L	<10	10	<0.2	0.2	<0.8	0.8	<2	2	2296991

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B0E3110
Report Date: 2010/10/20

AECOM Canada Ltd
Client Project #: IMICO Sept. Sampling
Project name: IMICO SITE

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		HL5635		HL5636		HL5637		HL5659		
Sampling Date		2010/10/07		2010/10/07		2010/10/07		2010/10/07		
	Units	**OW30S**	**RDL**	**OW25**	**RDL**	**OW6**	**RDL**	**OW9-I**	**RDL**	**QC Batch**
p+m-Xylene	ug/L	<5	5	<0.1	0.1	<0.4	0.4	<1	1	2296991
o-Xylene	ug/L	<5	5	<0.1	0.1	<0.4	0.4	<1	1	2296991
Xylene (Total)	ug/L	<5	5	<0.1	0.1	<0.4	0.4	<1	1	2296991
Chloroethane	ug/L	<10	10	<0.2	0.2	<0.8	0.8	<2	2	2296991
Chloromethane	ug/L	<30	30	<0.5	0.5	<2	2	<5	5	2296991
Trichlorofluoromethane (FREON 11)	ug/L	<10	10	<0.2	0.2	<0.8	0.8	<2	2	2296991
Surrogate Recovery (%)										
4-Bromofluorobenzene	%	92		108		116		114		2296991
D4-1,2-Dichloroethane	%	121		123		118		119		2296991
D8-Toluene	%	103		100		100		99		2296991

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Maxxam Job #: B0E3110
Report Date: 2010/10/20

AECOM Canada Ltd
Client Project #: IMICO Sept. Sampling
Project name: IMICO SITE

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		HL5660		HL5661		HL5662		HL5663		
Sampling Date		2010/10/07		2010/10/07		2010/10/07		2010/10/07		
	Units	**OW14**	**RDL**	**OW9-II**	**RDL**	**OW23S**	**RDL**	**OW23D**	**RDL**	**QC Batch**
Volatile Organics										
Acetone (2-Propanone)	ug/L	<10	10	<50	50	<300	300	<50	50	2296991
Benzene	ug/L	<0.1	0.1	3.4	0.5	<3	3	2.1	0.5	2296991
Bromodichloromethane	ug/L	<0.1	0.1	<0.5	0.5	<3	3	<0.5	0.5	2296991
Bromoform	ug/L	<0.2	0.2	<1	1	<5	5	<1	1	2296991
Bromomethane	ug/L	<0.5	0.5	<3	3	<10	10	<3	3	2296991
Carbon Tetrachloride	ug/L	<0.1	0.1	<0.5	0.5	<3	3	<0.5	0.5	2296991
Chlorobenzene	ug/L	<0.1	0.1	<0.5	0.5	<3	3	<0.5	0.5	2296991
Chloroform	ug/L	<0.1	0.1	<0.5	0.5	<3	3	<0.5	0.5	2296991
Dibromochloromethane	ug/L	<0.2	0.2	<1	1	<5	5	<1	1	2296991
1,2-Dichlorobenzene	ug/L	<0.2	0.2	<1	1	<5	5	<1	1	2296991
1,3-Dichlorobenzene	ug/L	<0.2	0.2	<1	1	<5	5	<1	1	2296991
1,4-Dichlorobenzene	ug/L	<0.2	0.2	<1	1	<5	5	<1	1	2296991
1,1-Dichloroethane	ug/L	<0.1	0.1	<0.5	0.5	<3	3	<0.5	0.5	2296991
1,2-Dichloroethane	ug/L	<0.2	0.2	<1	1	<5	5	<1	1	2296991
1,1-Dichloroethylene	ug/L	<0.1	0.1	<0.5	0.5	<3	3	<0.5	0.5	2296991
cis-1,2-Dichloroethylene	ug/L	0.7	0.1	6.6	0.5	<3	3	29	0.5	2296991
trans-1,2-Dichloroethylene	ug/L	<0.1	0.1	<0.5	0.5	<3	3	0.5	0.5	2296991
1,2-Dichloropropane	ug/L	<0.1	0.1	<0.5	0.5	<3	3	<0.5	0.5	2296991
cis-1,3-Dichloropropene	ug/L	<0.2	0.2	<1	1	<5	5	<1	1	2296991
trans-1,3-Dichloropropene	ug/L	<0.2	0.2	<1	1	<5	5	<1	1	2296991
Ethylbenzene	ug/L	<0.1	0.1	<0.5	0.5	<3	3	<0.5	0.5	2296991
Ethylene Dibromide	ug/L	<0.2	0.2	<1	1	<5	5	<1	1	2296991
Methylene Chloride(Dichloromethane)	ug/L	<0.5	0.5	<3	3	<10	10	<3	3	2296991
Methyl Isobutyl Ketone	ug/L	<5	5	<30	30	<100	100	<30	30	2296991
Methyl Ethyl Ketone (2-Butanone)	ug/L	<5	5	<30	30	<100	100	<30	30	2296991
Methyl t-butyl ether (MTBE)	ug/L	<0.2	0.2	<1	1	<5	5	<1	1	2296991
Styrene	ug/L	<0.2	0.2	<1	1	<5	5	<1	1	2296991
1,1,1,2-Tetrachloroethane	ug/L	<0.1	0.1	<0.5	0.5	<3	3	<0.5	0.5	2296991
1,1,2,2-Tetrachloroethane	ug/L	<0.2	0.2	<1	1	<5	5	<1	1	2296991
Tetrachloroethylene	ug/L	<0.1	0.1	<0.5	0.5	<3	3	<0.5	0.5	2296991
Toluene	ug/L	<0.2	0.2	<1	1	<5	5	<1	1	2296991
1,1,1-Trichloroethane	ug/L	<0.1	0.1	<0.5	0.5	<3	3	<0.5	0.5	2296991
1,1,2-Trichloroethane	ug/L	<0.2	0.2	<1	1	<5	5	<1	1	2296991
Trichloroethylene	ug/L	1.5	0.1	<0.5	0.5	<3	3	1.9	0.5	2296991
Vinyl Chloride	ug/L	<0.2	0.2	4	1	<5	5	10	1	2296991

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B0E3110
Report Date: 2010/10/20

AECOM Canada Ltd
Client Project #: IMICO Sept. Sampling
Project name: IMICO SITE

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		HL5660		HL5661		HL5662		HL5663		
Sampling Date		2010/10/07		2010/10/07		2010/10/07		2010/10/07		
	Units	**OW14**	**RDL**	**OW9-II**	**RDL**	**OW23S**	**RDL**	**OW23D**	**RDL**	**QC Batch**
p+m-Xylene	ug/L	<0.1	0.1	<0.5	0.5	<3	3	<0.5	0.5	2296991
o-Xylene	ug/L	<0.1	0.1	<0.5	0.5	<3	3	<0.5	0.5	2296991
Xylene (Total)	ug/L	<0.1	0.1	<0.5	0.5	<3	3	<0.5	0.5	2296991
Chloroethane	ug/L	<0.2	0.2	<1	1	<5	5	<1	1	2296991
Chloromethane	ug/L	<0.5	0.5	<3	3	<10	10	<3	3	2296991
Trichlorofluoromethane (FREON 11)	ug/L	<0.2	0.2	<1	1	<5	5	<1	1	2296991
Surrogate Recovery (%)										
4-Bromofluorobenzene	%	122		119		124		113		2296991
D4-1,2-Dichloroethane	%	119		119		111		120		2296991
D8-Toluene	%	100		99		98		100		2296991

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B0E3110
Report Date: 2010/10/20

AECOM Canada Ltd
Client Project #: IMICO Sept. Sampling
Project name: IMICO SITE

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		HL5664		HL5666		HL5667		HL5668		
Sampling Date		2010/10/07		2010/10/07		2010/10/07		2010/10/07		
	Units	**OW2**	**RDL**	**OW13**	**RDL**	**OW12**	**RDL**	**OW29D**	**RDL**	**QC Batch**
Volatile Organics										
Acetone (2-Propanone)	ug/L	<10	10	<50	50	<20	20	<500	500	2296991
Benzene	ug/L	<0.1	0.1	<0.5	0.5	<0.2	0.2	<5	5	2296991
Bromodichloromethane	ug/L	<0.1	0.1	<0.5	0.5	<0.2	0.2	<5	5	2296991
Bromoform	ug/L	<0.2	0.2	<1	1	<0.4	0.4	<10	10	2296991
Bromomethane	ug/L	<0.5	0.5	<3	3	<1	1	<30	30	2296991
Carbon Tetrachloride	ug/L	<0.1	0.1	<0.5	0.5	<0.2	0.2	<5	5	2296991
Chlorobenzene	ug/L	<0.1	0.1	<0.5	0.5	<0.2	0.2	<5	5	2296991
Chloroform	ug/L	<0.1	0.1	<0.5	0.5	<0.2	0.2	<5	5	2296991
Dibromochloromethane	ug/L	<0.2	0.2	<1	1	<0.4	0.4	<10	10	2296991
1,2-Dichlorobenzene	ug/L	<0.2	0.2	<1	1	<0.4	0.4	<10	10	2296991
1,3-Dichlorobenzene	ug/L	<0.2	0.2	<1	1	<0.4	0.4	<10	10	2296991
1,4-Dichlorobenzene	ug/L	<0.2	0.2	<1	1	<0.4	0.4	<10	10	2296991
1,1-Dichloroethane	ug/L	<0.1	0.1	<0.5	0.5	3.8	0.2	<5	5	2296991
1,2-Dichloroethane	ug/L	<0.2	0.2	<1	1	<0.4	0.4	<10	10	2296991
1,1-Dichloroethylene	ug/L	<0.1	0.1	<0.5	0.5	<0.2	0.2	<5	5	2296991
cis-1,2-Dichloroethylene	ug/L	<0.1	0.1	1.3	0.5	<0.2	0.2	35	5	2296991
trans-1,2-Dichloroethylene	ug/L	<0.1	0.1	<0.5	0.5	<0.2	0.2	<5	5	2296991
1,2-Dichloropropane	ug/L	<0.1	0.1	<0.5	0.5	<0.2	0.2	<5	5	2296991
cis-1,3-Dichloropropene	ug/L	<0.2	0.2	<1	1	<0.4	0.4	<10	10	2296991
trans-1,3-Dichloropropene	ug/L	<0.2	0.2	<1	1	<0.4	0.4	<10	10	2296991
Ethylbenzene	ug/L	<0.1	0.1	<0.5	0.5	<0.2	0.2	<5	5	2296991
Ethylene Dibromide	ug/L	<0.2	0.2	<1	1	<0.4	0.4	<10	10	2296991
Methylene Chloride(Dichloromethane)	ug/L	<0.5	0.5	<3	3	<1	1	<30	30	2296991
Methyl Isobutyl Ketone	ug/L	<5	5	<30	30	<10	10	<300	300	2296991
Methyl Ethyl Ketone (2-Butanone)	ug/L	<5	5	<30	30	<10	10	<300	300	2296991
Methyl t-butyl ether (MTBE)	ug/L	<0.2	0.2	<1	1	<0.4	0.4	<10	10	2296991
Styrene	ug/L	<0.2	0.2	<1	1	<0.4	0.4	<10	10	2296991
1,1,1,2-Tetrachloroethane	ug/L	<0.1	0.1	<0.5	0.5	<0.2	0.2	<5	5	2296991
1,1,2,2-Tetrachloroethane	ug/L	<0.2	0.2	<1	1	<0.4	0.4	<10	10	2296991
Tetrachloroethylene	ug/L	<0.1	0.1	<0.5	0.5	<0.2	0.2	<5	5	2296991
Toluene	ug/L	<0.2	0.2	<1	1	<0.4	0.4	<10	10	2296991
1,1,1-Trichloroethane	ug/L	<0.1	0.1	<0.5	0.5	31	0.2	<5	5	2296991
1,1,2-Trichloroethane	ug/L	<0.2	0.2	<1	1	<0.4	0.4	<10	10	2296991
Trichloroethylene	ug/L	<0.1	0.1	1.2	0.5	0.4	0.2	1100	5	2296991
Vinyl Chloride	ug/L	<0.2	0.2	<1	1	<0.4	0.4	<10	10	2296991

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B0E3110
Report Date: 2010/10/20

AECOM Canada Ltd
Client Project #: IMICO Sept. Sampling
Project name: IMICO SITE

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		HL5664		HL5666		HL5667		HL5668		
Sampling Date		2010/10/07		2010/10/07		2010/10/07		2010/10/07		
	Units	**OW2**	**RDL**	**OW13**	**RDL**	**OW12**	**RDL**	**OW29D**	**RDL**	**QC Batch**
p+m-Xylene	ug/L	<0.1	0.1	<0.5	0.5	<0.2	0.2	<5	5	2296991
o-Xylene	ug/L	<0.1	0.1	<0.5	0.5	<0.2	0.2	<5	5	2296991
Xylene (Total)	ug/L	<0.1	0.1	<0.5	0.5	<0.2	0.2	<5	5	2296991
Chloroethane	ug/L	<0.2	0.2	<1	1	<0.4	0.4	<10	10	2296991
Chloromethane	ug/L	<0.5	0.5	<3	3	<1	1	<30	30	2296991
Trichlorofluoromethane (FREON 11)	ug/L	<0.2	0.2	<1	1	<0.4	0.4	<10	10	2296991
Surrogate Recovery (%)										
4-Bromofluorobenzene	%	108		108		106		105		2296991
D4-1,2-Dichloroethane	%	117		120		120		118		2296991
D8-Toluene	%	97		100		97		102		2296991

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		HL5630	HL5631	HL5632	HL5633	HL5634	HL5635	HL5636	HL5637		
Sampling Date		2010/10/07	2010/10/07	2010/10/07	2010/10/07	2010/10/07	2010/10/07	2010/10/07	2010/10/07		
	Units	**OW29S**	**MW**	**OW28S**	**OW28D**	**OW30D**	**OW30S**	**OW25**	**OW6**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons											
F1 (C6-C10)	ug/L	<100	<100	<100	<100	1100	180	<100	<100	100	2299092
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	<100	1100	180	<100	<100	100	2299092
F2-F4 Hydrocarbons											
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	<100	<100	110	<100	100	2298283
F3 (C16-C34 Hydrocarbons)	ug/L	<100	<100	<100	<100	<100	<100	4100	<100	100	2298283
F4 (C34-C50 Hydrocarbons)	ug/L	<100	<100	<100	<100	<100	<100	<100	<100	100	2298283
Reached Baseline at C50	ug/L	YES	YES	YES	YES	YES	YES	YES	YES		2298283
Surrogate Recovery (%)											
1,4-Difluorobenzene	%	99	98	100	99	99	99	97	99		2299092
4-Bromofluorobenzene	%	101	103	101	101	100	101	100	101		2299092
D10-Ethylbenzene	%	113	118	103	108	114	109	103	102		2299092
D4-1,2-Dichloroethane	%	103	108	102	101	99	102	101	100		2299092
o-Terphenyl	%	111	113	115	116	116	116	98	117		2298283

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		HL5659	HL5660	HL5661	HL5663	HL5664	HL5665	HL5666	HL5668		
Sampling Date		2010/10/07	2010/10/07	2010/10/07	2010/10/07	2010/10/07	2010/10/07	2010/10/07	2010/10/07		
	Units	**OW9-I**	**OW14**	**OW9-II**	**OW23D**	**OW2**	**OW16**	**OW13**	**OW29D**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons											
F1 (C6-C10)	ug/L	<100	<100	<100	<100	<100		<100	200	100	2299092
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	<100	<100		<100	200	100	2299092
F2-F4 Hydrocarbons											
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	<100	<100	<100	<100	100	2298283
F3 (C16-C34 Hydrocarbons)	ug/L	<100	<100	<100	<100	<100	<100	<100	<100	100	2298283
F4 (C34-C50 Hydrocarbons)	ug/L	<100	<100	<100	<100	<100	<100	<100	<100	100	2298283
Reached Baseline at C50	ug/L	YES	YES	YES	YES	YES	YES	YES	YES		2298283
Surrogate Recovery (%)											
1,4-Difluorobenzene	%	103	99	101	97	97		98	101		2299092
4-Bromofluorobenzene	%	103	103	104	100	102		100	103		2299092
D10-Ethylbenzene	%	116	107	114	107	115		110	111		2299092
D4-1,2-Dichloroethane	%	102	103	106	101	103		102	105		2299092
o-Terphenyl	%	117	119	118	117	123	118	118	117		2298283

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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GENERAL COMMENTS

VOC Analysis: Due to high concentrations of target analytes and or foaming, some samples required dilution. Detection limits were adjusted accordingly.

PAH Analysis :Samples were decanted prior to extraction with the client's permission.
F1 BTEX Analysis: The BTEX results used for the F1-BTEX calculation were obtained from Headspace-GC analysis.

Sample HL5664-01: F2 F4 Analysis : Sample was decanted prior to analyses according to client request.

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QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
2296779	D10-Anthracene	2010/10/15	86	30 - 130	89	30 - 130	99	%				
2296779	D14-Terphenyl (FS)	2010/10/15	95	30 - 130	96	30 - 130	97	%				
2296779	D7-Quinoline	2010/10/15	86	30 - 130	95	30 - 130	94	%				
2296779	D8-Acenaphthylene	2010/10/15	80	30 - 130	84	30 - 130	90	%				
2296779	Acenaphthene	2010/10/15	85	30 - 130	88	30 - 130	<0.05	ug/L	NC	40		
2296779	Acenaphthylene	2010/10/15	79	30 - 130	83	30 - 130	<0.05	ug/L	NC	40		
2296779	Anthracene	2010/10/15	87	30 - 130	89	30 - 130	<0.05	ug/L	NC	40		
2296779	Benzo(a)anthracene	2010/10/15	83	30 - 130	84	30 - 130	<0.05	ug/L	NC	40		
2296779	Benzo(a)pyrene	2010/10/15	78	30 - 130	81	30 - 130	<0.01	ug/L	NC	40		
2296779	Benzo(b/j)fluoranthene	2010/10/15	83	30 - 130	82	30 - 130	<0.05	ug/L	NC	40		
2296779	Benzo(g,h,i)perylene	2010/10/15	83	30 - 130	82	30 - 130	<0.1	ug/L	NC	40		
2296779	Benzo(k)fluoranthene	2010/10/15	85	30 - 130	90	30 - 130	<0.05	ug/L	NC	40		
2296779	Chrysene	2010/10/15	85	30 - 130	87	30 - 130	<0.05	ug/L	NC	40		
2296779	Dibenz(a,h)anthracene	2010/10/15	81	30 - 130	80	30 - 130	<0.1	ug/L	NC	40		
2296779	Fluoranthene	2010/10/15	94	30 - 130	94	30 - 130	<0.05	ug/L	NC	40		
2296779	Fluorene	2010/10/15	96	30 - 130	97	30 - 130	<0.05	ug/L	NC	40		
2296779	Indeno(1,2,3-cd)pyrene	2010/10/15	82	30 - 130	78	30 - 130	<0.1	ug/L	NC	40		
2296779	1-Methylnaphthalene	2010/10/15	73	30 - 130	82	30 - 130	<0.05	ug/L	NC	40		
2296779	2-Methylnaphthalene	2010/10/15	71	30 - 130	81	30 - 130	<0.05	ug/L	NC	40		
2296779	Naphthalene	2010/10/15	64	30 - 130	76	30 - 130	<0.05	ug/L	NC	40		
2296779	Phenanthrene	2010/10/15	94	30 - 130	94	30 - 130	<0.03	ug/L	NC	40		
2296779	Pyrene	2010/10/15	93	30 - 130	93	30 - 130	<0.05	ug/L	NC	40		
2296790	Alkalinity (Total as CaCO3)	2010/10/14					2, RDL=1	mg/L	0.5	25	99	85 - 115
2296803	Conductivity	2010/10/14					<1	umho/cm	0.2	25	100	85 - 115
2296805	Fluoride (F-)	2010/10/14	96	80 - 120	99	85 - 115	<0.1	mg/L	NC	25		
2296841	Fluoride (F-)	2010/10/14	101	80 - 120	101	85 - 115	<0.1	mg/L	NC	25		
2296858	Conductivity	2010/10/14					<1	umho/cm	0.2	25	100	85 - 115
2296861	Alkalinity (Total as CaCO3)	2010/10/14					<1	mg/L	2.2	25	98	85 - 115
2296873	Dissolved Bromide (Br-)	2010/10/15	100	80 - 120	88	85 - 115	<1	mg/L	NC	25		
2296873	Dissolved Chloride (Cl)	2010/10/15			94	85 - 115	<1	mg/L				
2296873	Dissolved Sulphate (SO4)	2010/10/15			97	85 - 115	<1	mg/L				
2296879	Nitrite (N)	2010/10/14	103	80 - 120	104	85 - 115	<0.01	mg/L	NC	25		
2296879	Nitrate (N)	2010/10/14	90	80 - 120	107	85 - 115	<0.1	mg/L	0.3	25		
2296991	4-Bromofluorobenzene	2010/10/18	111	70 - 130	110	70 - 130	104	%				
2296991	D4-1,2-Dichloroethane	2010/10/18	114	70 - 130	111	70 - 130	118	%				
2296991	D8-Toluene	2010/10/18	101	70 - 130	105	70 - 130	101	%				
2296991	Acetone (2-Propanone)	2010/10/18	95	60 - 140	125	60 - 140	<10	ug/L	1.1	40		
2296991	Benzene	2010/10/18	101	70 - 130	92	70 - 130	<0.1	ug/L	NC	40		
2296991	Bromodichloromethane	2010/10/18	104	70 - 130	96	70 - 130	<0.1	ug/L	NC	40		
2296991	Bromoform	2010/10/18	85	70 - 130	79	70 - 130	<0.2	ug/L	NC	40		

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QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
2296991	Bromomethane	2010/10/18	126	60 - 140	109	60 - 140	<0.5	ug/L	NC	40		
2296991	Carbon Tetrachloride	2010/10/18	121	70 - 130	112	70 - 130	<0.1	ug/L	NC	40		
2296991	Chlorobenzene	2010/10/18	101	70 - 130	96	70 - 130	<0.1	ug/L	NC	40		
2296991	Chloroform	2010/10/18	103	70 - 130	96	70 - 130	<0.1	ug/L	NC	40		
2296991	Dibromochloromethane	2010/10/18	104	70 - 130	97	70 - 130	<0.2	ug/L	NC	40		
2296991	1,2-Dichlorobenzene	2010/10/18	93	70 - 130	92	70 - 130	<0.2	ug/L	NC	40		
2296991	1,3-Dichlorobenzene	2010/10/18	90	70 - 130	90	70 - 130	<0.2	ug/L	NC	40		
2296991	1,4-Dichlorobenzene	2010/10/18	91	70 - 130	92	70 - 130	<0.2	ug/L	NC	40		
2296991	1,1-Dichloroethane	2010/10/18	99	70 - 130	92	70 - 130	<0.1	ug/L	NC	40		
2296991	1,2-Dichloroethane	2010/10/18	108	70 - 130	101	70 - 130	<0.2	ug/L	NC	40		
2296991	1,1-Dichloroethylene	2010/10/18	95	70 - 130	88	70 - 130	<0.1	ug/L	NC	40		
2296991	cis-1,2-Dichloroethylene	2010/10/18	107	70 - 130	90	70 - 130	<0.1	ug/L	NC	40		
2296991	trans-1,2-Dichloroethylene	2010/10/18	104	70 - 130	93	70 - 130	<0.1	ug/L	NC	40		
2296991	1,2-Dichloropropane	2010/10/18	98	70 - 130	90	70 - 130	<0.1	ug/L	NC	40		
2296991	cis-1,3-Dichloropropene	2010/10/18	86	70 - 130	78	70 - 130	<0.2	ug/L	NC	40		
2296991	trans-1,3-Dichloropropene	2010/10/18	87	70 - 130	81	70 - 130	<0.2	ug/L	NC	40		
2296991	Ethylbenzene	2010/10/18	103	70 - 130	97	70 - 130	<0.1	ug/L	NC	40		
2296991	Ethylene Dibromide	2010/10/18	98	70 - 130	93	70 - 130	<0.2	ug/L	NC	40		
2296991	Methylene Chloride(Dichloromethane)	2010/10/18	106	70 - 130	98	70 - 130	<0.5	ug/L	NC	40		
2296991	Methyl Isobutyl Ketone	2010/10/18	84	70 - 130	75	70 - 130	<5	ug/L	NC	40		
2296991	Methyl Ethyl Ketone (2-Butanone)	2010/10/18	94	60 - 140	98	60 - 140	<5	ug/L	NC	40		
2296991	Methyl t-butyl ether (MTBE)	2010/10/18	118	70 - 130	106	70 - 130	<0.2	ug/L	NC	40		
2296991	Styrene	2010/10/18	107	70 - 130	103	70 - 130	<0.2	ug/L	NC	40		
2296991	1,1,1,2-Tetrachloroethane	2010/10/18	110	70 - 130	104	70 - 130	<0.1	ug/L	NC	40		
2296991	1,1,2,2-Tetrachloroethane	2010/10/18	96	70 - 130	88	70 - 130	<0.2	ug/L	NC	40		
2296991	Tetrachloroethylene	2010/10/18	101	70 - 130	97	70 - 130	<0.1	ug/L	NC	40		
2296991	Toluene	2010/10/18	101	70 - 130	92	70 - 130	<0.2	ug/L	NC	40		
2296991	1,1,1-Trichloroethane	2010/10/18	116	70 - 130	107	70 - 130	<0.1	ug/L	NC	40		
2296991	1,1,2-Trichloroethane	2010/10/18	93	70 - 130	88	70 - 130	<0.2	ug/L	NC	40		
2296991	Trichloroethylene	2010/10/18	102	70 - 130	93	70 - 130	<0.1	ug/L	NC	40		
2296991	Vinyl Chloride	2010/10/18	108	70 - 130	101	70 - 130	<0.2	ug/L	NC	40		
2296991	p+m-Xylene	2010/10/18	106	70 - 130	99	70 - 130	<0.1	ug/L	NC	40		
2296991	o-Xylene	2010/10/18	105	70 - 130	97	70 - 130	<0.1	ug/L	NC	40		
2296991	Chloroethane	2010/10/18	100	70 - 130	100	70 - 130	<0.2	ug/L				
2296991	Chloromethane	2010/10/18	107	60 - 140	103	60 - 140	<0.5	ug/L				
2296991	Trichlorofluoromethane (FREON 11)	2010/10/18	113	70 - 130	107	70 - 130	<0.2	ug/L	NC	40		
2296991	Xylene (Total)	2010/10/18					<0.1	ug/L	NC	40		
2297000	Dissolved Chloride (Cl)	2010/10/15	101	80 - 120	99	85 - 115	<1	mg/L	8.1	25		
2297000	Dissolved Bromide (Br-)	2010/10/15	96	80 - 120	93	85 - 115	<1	mg/L	NC	25		
2297000	Dissolved Sulphate (SO4)	2010/10/15	NC	80 - 120	103	85 - 115	<1	mg/L	2.0	25		

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QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
2297007	Alkalinity (Total as CaCO3)	2010/10/14					<1	mg/L	1.1	25	98	85 - 115
2297009	Conductivity	2010/10/14					<1	umho/cm	0	25	100	85 - 115
2297010	Fluoride (F-)	2010/10/14	NC	80 - 120	99	85 - 115	<0.1	mg/L	1.5	25		
2297113	Nitrite (N)	2010/10/14	105	80 - 120	105	85 - 115	<0.01	mg/L	NC	25		
2297113	Nitrate (N)	2010/10/14	108	80 - 120	106	85 - 115	<0.1	mg/L	NC	25		
2297128	Nitrite (N)	2010/10/14	101	80 - 120	103	85 - 115	<0.01	mg/L	1.8	25		
2297128	Nitrate (N)	2010/10/14	89	80 - 120	106	85 - 115	<0.1	mg/L	0.4	25		
2297131	Nitrite (N)	2010/10/14	102	80 - 120	104	85 - 115	<0.01	mg/L				
2297131	Nitrate (N)	2010/10/14	105	80 - 120	105	85 - 115	<0.1	mg/L	NC	25		
2297214	Dissolved Arsenic (As)	2010/10/14	106	80 - 120	103	90 - 110	<1	ug/L	NC	25		
2297214	Dissolved Calcium (Ca)	2010/10/14	NC	80 - 120	109	90 - 110	<200	ug/L	0.7	25		
2297214	Dissolved Lead (Pb)	2010/10/14	101	80 - 120	101	90 - 110	0.5, RDL=0.5	ug/L	NC	25		
2297214	Dissolved Magnesium (Mg)	2010/10/14	NC	80 - 120	102	90 - 110	<50	ug/L	3.5	25		
2297214	Dissolved Potassium (K)	2010/10/14	103	80 - 120	106	90 - 110	<200	ug/L	1.9	25		
2297214	Dissolved Sodium (Na)	2010/10/14	97	80 - 120	102	90 - 110	<100	ug/L	2.1	25		
2297214	Dissolved Zinc (Zn)	2010/10/14	NC	80 - 120	99	90 - 110	<5	ug/L	0.09	25		
2297451	Dissolved Arsenic (As)	2010/10/14	99	80 - 120	95	90 - 110	<1	ug/L	NC	25		
2297451	Dissolved Calcium (Ca)	2010/10/14	NC	80 - 120	99	90 - 110	<200	ug/L	0.4	25		
2297451	Dissolved Lead (Pb)	2010/10/14	101	80 - 120	100	90 - 110	<0.5	ug/L	NC	25		
2297451	Dissolved Magnesium (Mg)	2010/10/14	NC	80 - 120	94	90 - 110	<50	ug/L	2.3	25		
2297451	Dissolved Potassium (K)	2010/10/14	92	80 - 120	97	90 - 110	<200	ug/L	1.3	25		
2297451	Dissolved Sodium (Na)	2010/10/14	NC	80 - 120	98	90 - 110	<100	ug/L	4.9	25		
2297451	Dissolved Zinc (Zn)	2010/10/14	NC	80 - 120	97	90 - 110	<5	ug/L	3.3	25		
2297477	Dissolved Arsenic (As)	2010/10/15	102	80 - 120	100	90 - 110	<1	ug/L				
2297477	Dissolved Calcium (Ca)	2010/10/15	NC	80 - 120	101	90 - 110	<200	ug/L				
2297477	Dissolved Lead (Pb)	2010/10/15	100	80 - 120	101	90 - 110	<0.5	ug/L	NC	25		
2297477	Dissolved Magnesium (Mg)	2010/10/15	NC	80 - 120	105	90 - 110	<50	ug/L				
2297477	Dissolved Potassium (K)	2010/10/15	106	80 - 120	100	90 - 110	<200	ug/L				
2297477	Dissolved Zinc (Zn)	2010/10/15	99	80 - 120	100	90 - 110	<5	ug/L				
2297555	Orthophosphate (P)	2010/10/15	99	75 - 125	100	80 - 120	<0.01	mg/L	NC	25		
2297563	Orthophosphate (P)	2010/10/15	100	75 - 125	102	80 - 120	<0.01	mg/L	NC	25		
2298283	o-Terphenyl	2010/10/15	112	30 - 130	109	30 - 130	105	%				
2298283	F2 (C10-C16 Hydrocarbons)	2010/10/15	116	60 - 130	114	60 - 130	<100	ug/L	NC	50		
2298283	F3 (C16-C34 Hydrocarbons)	2010/10/15	116	60 - 130	114	60 - 130	<100	ug/L	NC	50		
2298283	F4 (C34-C50 Hydrocarbons)	2010/10/15	116	60 - 130	114	60 - 130	<100	ug/L	NC	50		
2299092	1,4-Difluorobenzene	2010/10/15	97	70 - 130	98	70 - 130	102	%				
2299092	4-Bromofluorobenzene	2010/10/15	103	70 - 130	102	70 - 130	103	%				
2299092	D10-Ethylbenzene	2010/10/15	108	70 - 130	111	70 - 130	116	%				
2299092	D4-1,2-Dichloroethane	2010/10/15	104	70 - 130	102	70 - 130	104	%				
2299092	F1 (C6-C10)	2010/10/15	124	70 - 130	100	70 - 130	<100	ug/L	NC	40		

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QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
2299092	F1 (C6-C10) - BTEX	2010/10/15					<100	ug/L	NC	40		
2301175	Dissolved Sodium (Na)	2010/10/18	NC	80 - 120	105	90 - 110	<100	ug/L	3.9	25		

N/A = Not Applicable
RDL = Reportable Detection Limit
RPD = Relative Percent Difference
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

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Validation Signature Page

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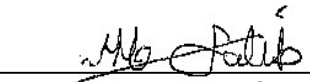
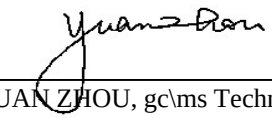
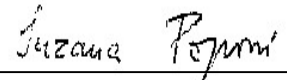
The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



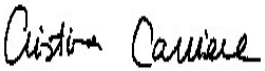
MAMDOUH SALIB, Analyst, Hydrocarbons



YUAN ZHOU, gc\ms Technician



SUZANA POPOVIC, Supervisor, Hydrocarbons



CRISTINA CARRIERE, Scientific Services

==========

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

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Analytics International Corporation o/a Maxxam Analytics

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CHAIN OF CUSTODY

8-Oct-10 20:29
MARIJANE CRUZ
B0E3110
MAF ENV-743

Page 1 of 1

nly:

BOTTLE ORDER #: 214962

INVOICE INFORMATION:		REPORT INFORMATION (if differs from invoice):		PROJECT INFORMATION:	
Company Name:	#14423 AECOM Canada Ltd	Company Name:		Quotation #:	A98293
Contact Name:	Albanie Tremblay	Contact Name:		P.O. #:	
Address:	512 Woolwich St Suite 2 Guelph ON N1H 3X7	Address:		Project #:	IMICO Sept. Sampling
				Project Name:	
Phone:	(519)763-7783 x5107 Fax: (519)763-1668	Phone:	Fax:	Site #:	
Email:	albanie.tremblay@aecom.com	Email:		Sampled By:	AT

CHAIN OF CUSTODY #: C#214962-04-01

PROJECT MANAGER: MARIJANE CRUZ

REGULATORY CRITERIA:

- [ ] MISA — Reg. 153/04 — Sewer Use: [ ] Sanitary [ ] Storm [ ] Combined
- [ ] PWQO — [ ] Table 1 [ ] Table 2 [ ] Table 3 [ ] Table 6 — [ ] Residential/Parkland [ ] Industrial/Commercial [ ] Medium/Fine [ ] Coarse
- [ ] Reg. 558 — Municipality
- Other (specify) — Report Criteria on C of A? [ ]

Reg. 153 [ ] 2004 [x] 2011

SPECIAL INSTRUCTIONS

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

SAMPLES MUST BE KEPT COOL (< 10ºC) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

ANALYSIS REQUESTED (Please be specific):

TURNAROUND TIME (TAT) REQUIRED:

PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS

Regular (Standard) TAT: [x]
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission) [ ]
Date Required: Time Required:
Rush Confirmation Number: *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Alkalinity	Anions	Conductivity	Fluoride	Dissolved Metals by ICPMS	Nitrate (NO3) and Nitrite (NO2) in Water	pH	Orthophosphate	Volatile Organic Compounds in Water	Petroleum Hydro. CCME F1 & BTEX in Water	# of Bottles	Comments
1		OW29S ~~OW30 (d)~~	Oct7/10		WT	N	Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
2		~~Duplicate (OW**)~~	Oct7/10		WT	N	Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	8	
3		OW28S ~~Duplicate (OW**)~~	oct7/10		WT	N	Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
4		OW28D	oct7/10		WT	N	Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
5		OW30D	Oct7/10		WT	N	Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
6		OW30S	Oct7/10		WT	N	Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
7		OW25	Oct7/10		WT	N	Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	11	
8		OW6	Oct7/10		WT	N	Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	
9																			1/1/1°C 4/4/4°C
10																			3/3/3°C 2/2/2°C

*RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time:	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time:	# Jars Used and Not Submitted
Albanie T	Oct 8/10		Ashlie Ashlie Surname	10/10/08	17:55	

Laboratory Use Only

Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
[x]	4/4/4°C	[ ] Yes [ ] No

1/1/1°C

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

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Maxxam Analytics

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CHAIN OF CUSTODY RECORD

INVOICE INFORMATION:		REPORT INFORMATION (if differs from invoice):		PROJECT INFORMATION:	
Company Name:	#14423 AECOM Canada Ltd	Company Name:		Quotation #:	A98293
Contact Name:	Albanie Tremblay	Contact Name:		P.O. #:	
Address:	512 Woolwich St Suite 2	Address:		Project #:	IMICO Sept. Sampling
	Guelph ON N1H 3X7			Project Name:	
Phone:	(519)763-7783 x5107 Fax: (519)763-1668	Phone:	Fax:	Site #:	
Email:	albanie.tremblay@aecom.com	Email:		Sampled By:	AT

Laboratory Use Only:

MAXXAM JOB #:	BOTTLE ORDER #:
B0E3110	214962
CHAIN OF CUSTODY #:	PROJECT MANAGER:
C#214962-03-02	MARIJANE CRUZ

REGULATORY CRITERIA:

- [ ] MISA Reg. 153/04
- [ ] PWQO
- [ ] Reg. 558
- [x] Table 1
- [ ] Table 2
- [ ] Table 3
- [ ] Table 6
- [ ] Residential/Parkland
- [ ] Industrial/Commercial
- [ ] Medium/Fine
- [ ] Coarse

Sewer Use: [ ] Sanitary [ ] Storm [ ] Combined

Municipality ______

Other (specify) ______ Report Criteria on C of A ? [ ]

SPECIAL INSTRUCTIONS

Reg. 153 [ ] 2004 [x] 2011

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

SAMPLES MUST BE KEPT COOL (< 10ºC) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

ANALYSIS REQUESTED (Please be specific):

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	Petroleum Hydrocarbons F2-F4 in Water	PAH Compounds in Water by GC/MS (SIM)	# of Bottles	Comments
1		~~OW25~~ OW29S	Oct7/10		WT	N	Y	✓	✓	12	
2		MW8 ~~OW26 (s)~~	Oct7/10		WT	N	Y	✓	✓	8	
3		OW28S ~~OW28 (d)~~	↓		WT	↓	↓	✓	✓	12	
4		OW28D ~~OW27 (s)~~			WT			✓	✓	12	
5		OW30D ~~OW27 (d)~~			WT			✓	✓	12	
6		OW30S ~~OW28 (s)~~			WT			✓	✓	12	
7		OW25 ~~OW28 (d)~~			WT			✓	✓	11	
8		OW6 ~~OW29 (s)~~			WT			✓	✓	10	1/1/1°C 4/4/4°C
9		OW29 (d)			WT						3/3/3°C 2/2/2°C
10		OW30 (s)			WT						4/4/4°C 1/1/1°C

TURNAROUND TIME (TAT) REQUIRED:

PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS

Regular (Standard) TAT: [x]
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission) [ ]
Date Required: ______ Time Required: ______
Rush Confirmation Number: ______ (call lab for #)

*RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time:	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time:	# Jars Used and Not Submitted
Albanie T	Oct 8/10		Ashlette / Ashi Ant Sulcaman	10/10/08	17:55	

Laboratory Use Only

Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
[x]		[ ] Yes [ ] No

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

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CHAIN OF CUSTODY RECORD

INVOICE INFORMATION:		REPORT INFORMATION (if differs from invoice):		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#14423 AECOM Canada Ltd	Company Name:		Quotation #:	A98293	MAXXAM JOB #: B0E3110	BOTTLE ORDER #: 214962
Contact Name:	Albanie Tremblay	Contact Name:		P.O. #:			
Address:	512 Woolwich St Suite 2 Guelph ON N1H 3X7	Address:		Project #:	IMICO Sept. Sampling	CHAIN OF CUSTODY #: C#214962-03-01	PROJECT MANAGER: MARIJANE CRUZ
Phone:	(519)763-7783 x5107 Fax: (519)763-1668	Phone:	Fax:	Project Name:			
Email:	albanie.tremblay@aecom.com	Email:		Site #:			
				Sampled By:			

REGULATORY CRITERIA:
☐ MISA Reg. 153/04 Sewer Use ☐ Sanitary ☐ Storm ☐ Combined
☐ PWQO ☑ Table 1 ☐ Table 2 ☐ Table 3 ☐ Table 6 ☐ Residential/Parkland ☐ Industrial/Commercial ☐ Medium/Fine ☐ Coarse
☐ Reg. 558 Municipality
Other (specify) Report Criteria on C of A ? ☐
Reg. 153 ☐ 2004 ☑ 2011

SPECIAL INSTRUCTIONS:

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Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required: ☐
Rush Confirmation Number: (call lab for #)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Alkalinity	Anions	Conductivity	Fluoride	Dissolved Metals by ICPMS	Nitrate (NO3) and Nitrite (NO2) in Water	pH	Orthophosphate	Volatile Organic Compounds in Water	Petroleum Hydro. CCME F1 & BTEX in Water	# of Bottles	Comments
1		~~OW25~~ OW9-I	Oct7/10		WT	N	Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	no sVOCs.
2		~~OW26 (s)~~ OW14	Oct7/10		WT	N	Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	No sVOCs.
3		~~OW28 (d)~~ OW9-II	Oct7/10		WT	N	Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	No sVOCs.
4		~~OW27 (s)~~ OW23S	Oct7/10		WT	N	Y	✓	✓	✓	✓	✓	✓	✓		✓		8	NO sVOCs.
5		~~OW27 (d)~~ OW23D	Oct7/10		WT	N	Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	11	
6		~~OW28 (s)~~ OW2	Oct7/10		WT	N	Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	
7		~~OW28 (d)~~ OW16	Oct7/10		WT	N	Y	✓	✓	✓	✓	✓	✓	✓	✓		✓	4	NO VOCs + sVOCs.
8		~~OW28 (s)~~ OW13	Oct7/10		WT	N	Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	NO sVOCs
9		~~OW29 (d)~~ OW12	Oct7/10		WT	N	Y	✓	✓	✓	✓	✓	✓	✓		✓		6	1/1/1°C 4/4/4°C
10		~~OW30 (s)~~ OW29D	Oct7/10		WT	N	Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	~~10~~ 11	3/3/3°C 2/2/2°C 4/4/4°C

*RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time:	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time:	# Jars Used and Not Submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
	Oct8/10		Ashlie	10/10/08	17:58		X		☐ Yes ☐ No

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

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CHAIN OF CUSTODY RECORD

Page 8 of 8 4/4

INVOICE INFORMATION:		REPORT INFORMATION (if differs from invoice):		PROJECT INFORMATION:	
Company Name:	#14423 AECOM Canada Ltd	Company Name:		Quotation #:	A98293
Contact Name:	Albanie Tremblay	Contact Name:		P.O. #:	
Address:	512 Woolwich St Suite 2 Guelph ON N1H 3X7	Address:		Project #:	IMICO Sept. Sampling
				Project Name:	
Phone:	(519)763-7783 x5107 Fax: (519)763-1668	Phone:	Fax:	Site #:	
Email:	albanie.tremblay@aecom.com	Email:		Sampled By:	AT

Laboratory Use Only:

MAXXAM JOB #:	BOTTLE ORDER #:
B0E3110	214962
CHAIN OF CUSTODY #:	**PROJECT MANAGER:**
C#214962-04-02	MARIJANE CRUZ

REGULATORY CRITERIA:

- ☐ MISA Reg. 153/04
- ☐ PWQO ☐ Table 1 ☑ Table 2 ☐ Table 3 ☐ Table 6
- ☐ Reg. 558
- ☐ Residential/Parkland ☐ Industrial/Commercial ☐ Medium/Fine ☐ Coarse
- Sewer Use ☐ Sanitary ☐ Storm ☐ Combined
- Municipality ____
- Other (specify) ____
- Report Criteria on C of A ? ☐

Reg. 153 ☐ 2004 ☑ 2011

SPECIAL INSTRUCTIONS

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Job Specific Rush TAT (if applies to entire submission) ☐
Date Required: ____ Time Required: ____
Rush Confirmation Number: ____ (call lab for #)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	Petroleum Hydrocarbons F2-F4 in Water	PAH Compounds in Water by GC/MS (SIM)									# of Bottles	Comments
1		OW9-I ~~OW30 (d)~~		Oct 7/10	WT	N	Y											10	NO SVOCs
2		OW14 ~~Duplicate (OW**)~~		↓	WT	↓	↓											10	NO SVOCS
3		OW9-II ~~Duplicate (OW**)~~			WT													10	NO SVOCS
4		OW23S																8	NO SVOCS
5		OW23D																11	
6		OW2																10	
7		OW16																4	NO SVOCs & VOCS
8		OW13																10	NO SVOCS
9		OW12																6	1/1/1°C 1/1/1°C
10		OW 29D																11	3/3/3°C 4/4/4°C 4/4/4°C 2/2/2°C

*RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time:	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time:	# Jars Used and Not Submitted
Albanie T	Oct 7/10		[signature] ASHI... SUKUMAN	10/10/08	17:55	

Laboratory Use Only		
Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
X		☐ Yes ☐ No

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

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Maxxam Analytics International Corporation o/a Maxxam Analytics

Your Project #: 6014910
Site Location: IMICO SITE-MARCH 2010 SAMPLING
Your C.O.C. #: 18539102, 185391-0

Attention: Albanie Tremblay
AECOM Canada Ltd
IMICO
ON
CANADA

Report Date: 2010/07/08
This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B035447
Received: 2010/03/24, 17:19

Sample Matrix: Water
Samples Received: 15

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Alkalinity	14	N/A	2010/03/26	CAM SOP-00448	SM 2320B
Anions	10	N/A	2010/03/26	CAM SOP-00435	SM 4110B
Anions	4	N/A	2010/03/30	CAM SOP-00435	SM 4110B
Conductivity	14	N/A	2010/03/26	CAM SOP-00448	SM 2510
Petroleum Hydro. CCME F1 & BTEX in Water	5	N/A	2010/03/27	CAM SOP-00315	CCME CWS
Petroleum Hydro. CCME F1 & BTEX in Water	7	N/A	2010/03/28	CAM SOP-00315	CCME CWS
F1 + F2 Calculation	12	N/A	2010/03/30	CAM SOP-00316	CCME Hydrocarbons
Petroleum Hydrocarbons F2-F4 in Water	1	2010/03/29	2010/03/29	CAM SOP-00316	CCME Hydrocarbons
Petroleum Hydrocarbons F2-F4 in Water	11	2010/03/29	2010/03/30	CAM SOP-00316	CCME Hydrocarbons
F3 + F4 Calculation	12	N/A	2010/03/30	CAM SOP-00316	CCME Hydrocarbons
Fluoride	14	2010/03/26	2010/03/26	CAM SOP-00448	APHA 4500FC
Dissolved Metals by ICPMS	14	N/A	2010/03/29	CAM SOP-00447	EPA 6020
Nitrate (NO3) and Nitrite (NO2) in Water (1)	14	N/A	2010/03/26	CAM SOP-00440	SM 4500 NO3I/NO2B
PAH Compounds in Water by GC/MS (SIM)	10	2010/03/26	2010/03/27	CAM SOP-00318	EPA 8270
pH	14	N/A	2010/03/26	CAM SOP-00448	SM 4500H
Orthophosphate	10	N/A	2010/03/29	CAM SOP-00461	SM 4500 P-F
Orthophosphate	4	N/A	2010/03/31	CAM SOP-00461	SM 4500 P-F
Volatile Organic Compounds in Water	3	N/A	2010/03/28	CAM SOP-00226	EPA 8260 modified
Volatile Organic Compounds in Water	10	N/A	2010/03/29	CAM SOP-00226	EPA 8260 modified
Volatile Organic Compounds in Water	1	N/A	2010/03/30	CAM SOP-00226	EPA 8260 modified

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

(1) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

../2

Your Project #: 6014910
Site Location: IMICO SITE-MARCH 2010 SAMPLING
Your C.O.C. #: 18539102, 185391-0

Attention: Albanie Tremblay
AECOM Canada Ltd
IMICO
ON
CANADA

Report Date: 2010/07/08
This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

Encryption Key

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

MARIJANE CRUZ, Project Manager
Email: Marijane.Cruz@maxxamanalytics.com
Phone# (905) 817-5756

==========

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

Maxxam Job #: B035447
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

O'REG 153 POLYAROMATIC HYDROCARBONS (WATER)

Maxxam ID			FK5203	FK5204	FK5205	FK5206	FK5208		
Sampling Date			2010/03/23	2010/03/23	2010/03/23	2010/03/23	2010/03/23		
COC Number			185391-0	185391-0	185391-0	185391-0	185391-0		
	Units	**Criteria**	**OW27(S)**	**OW27(D)**	**OW30(S)**	**OW30(D)**	**OW23(D)**	**RDL**	**QC Batch**
Polyaromatic Hydrocarbons									
Acenaphthene	ug/L	**4.1**	<0.05	<0.05	0.07	<0.05	<0.05	0.05	2110098
Acenaphthylene	ug/L	**1**	<0.05	<0.05	0.05	<0.05	<0.05	0.05	2110098
Anthracene	ug/L	**2.4**	<0.05	<0.05	0.16	<0.05	<0.05	0.05	2110098
Benzo(a)anthracene	ug/L	**1.0**	<0.05	<0.05	0.72	0.06	<0.05	0.05	2110098
Benzo(a)pyrene	ug/L	**0.01**	<0.01	<0.01	**0.72**	**0.07**	<0.01	0.01	2110098
Benzo(b/j)fluoranthene	ug/L	**-**	<0.05	<0.05	1.1	0.10	<0.05	0.05	2110098
Benzo(g,h,i)perylene	ug/L	**0.2**	<0.1	<0.1	**0.7**	<0.1	<0.1	0.1	2110098
Benzo(k)fluoranthene	ug/L	**0.1**	<0.05	<0.05	**0.39**	<0.05	<0.05	0.05	2110098
Chrysene	ug/L	**0.1**	<0.05	<0.05	**0.72**	0.06	<0.05	0.05	2110098
Dibenz(a,h)anthracene	ug/L	**0.2**	<0.1	<0.1	0.1	<0.1	<0.1	0.1	2110098
Fluoranthene	ug/L	**0.41**	<0.05	<0.05	**1.9**	0.15	<0.05	0.05	2110098
Fluorene	ug/L	**120**	<0.05	<0.05	0.06	<0.05	<0.05	0.05	2110098
Indeno(1,2,3-cd)pyrene	ug/L	**0.2**	<0.1	<0.1	**0.6**	<0.1	<0.1	0.1	2110098
1-Methylnaphthalene	ug/L	**3.2**	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2110098
2-Methylnaphthalene	ug/L	**3.2**	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2110098
Naphthalene	ug/L	**11**	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2110098
Phenanthrene	ug/L	**1**	<0.03	<0.03	0.98	0.09	<0.03	0.03	2110098
Pyrene	ug/L	**4.1**	<0.05	<0.05	1.5	0.13	<0.05	0.05	2110098
Surrogate Recovery (%)									
D10-Anthracene	%	-	102	94	96	99	102		2110098
D14-Terphenyl (FS)	%	-	96	87	94	91	93		2110098
D7-Quinoline	%	-	97	90	100	97	82		2110098
D8-Acenaphthylene	%	-	85	80	88	92	87		2110098

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035447
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

O'REG 153 POLYAROMATIC HYDROCARBONS (WATER)

Maxxam ID			FK5209	FK5211	FK5213	FK5214	FK5215		
Sampling Date			2010/03/23	2010/03/23	2010/03/23	2010/03/23	2010/03/23		
COC Number			185391-0	185391-0	185391-0	185391-0	185391-0		
	Units	**Criteria**	**OW24(S)**	**OW24(D)**	**OW19**	**OW18-I**	**OW18-II**	**RDL**	**QC Batch**
Polyaromatic Hydrocarbons									
Acenaphthene	ug/L	**4.1**	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2110098
Acenaphthylene	ug/L	**1**	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2110098
Anthracene	ug/L	**2.4**	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2110098
Benzo(a)anthracene	ug/L	**1.0**	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2110098
Benzo(a)pyrene	ug/L	**0.01**	<0.01	<0.01	<0.01	0.01	<0.01	0.01	2110098
Benzo(b/j)fluoranthene	ug/L	**-**	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2110098
Benzo(g,h,i)perylene	ug/L	**0.2**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2110098
Benzo(k)fluoranthene	ug/L	**0.1**	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2110098
Chrysene	ug/L	**0.1**	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2110098
Dibenz(a,h)anthracene	ug/L	**0.2**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2110098
Fluoranthene	ug/L	**0.41**	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2110098
Fluorene	ug/L	**120**	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2110098
Indeno(1,2,3-cd)pyrene	ug/L	**0.2**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2110098
1-Methylnaphthalene	ug/L	**3.2**	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2110098
2-Methylnaphthalene	ug/L	**3.2**	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2110098
Naphthalene	ug/L	**11**	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2110098
Phenanthrene	ug/L	**1**	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	2110098
Pyrene	ug/L	**4.1**	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2110098
Surrogate Recovery (%)									
D10-Anthracene	%	-	100	100	103	97	102		2110098
D14-Terphenyl (FS)	%	-	92	94	95	89	92		2110098
D7-Quinoline	%	-	94	95	99	93	79		2110098
D8-Acenaphthylene	%	-	84	87	88	85	85		2110098

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035447
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

O'REG 153 TABLE 2 HYDROCARBONS (WATER)

Maxxam ID			FK5201	FK5203	FK5204	FK5205	FK5206		
Sampling Date			2010/03/23	2010/03/23	2010/03/23	2010/03/23	2010/03/23		
COC Number			185391-0	185391-0	185391-0	185391-0	185391-0		
	Units	**Criteria**	**OW16**	**OW27(S)**	**OW27(D)**	**OW30(S)**	**OW30(D)**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons									
F1 (C6-C10)	ug/L	**750**		<100	<100	110	**1000**	100	2110723
F1 (C6-C10) - BTEX	ug/L	**750**		<100	<100	110	**1000**	100	2110723
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/L	**150**	<100	<100	<100	<100	<100	100	2110911
F3 (C16-C34 Hydrocarbons)	ug/L	**500**	<100	<100	<100	<100	<100	100	2110911
F4 (C34-C50 Hydrocarbons)	ug/L	**500**	<100	<100	<100	<100	<100	100	2110911
Reached Baseline at C50	ug/L	**-**	Yes	Yes	Yes	Yes	Yes		2110911
F1 + F2	ug/L	**-**	<100	<100	<100	110	1000	100	2108790
F3 + F4	ug/L	**-**	<100	<100	<100	<100	<100	100	2108791
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	-		99	99	99	98		2110723
4-Bromofluorobenzene	%	-		98	99	97	98		2110723
D10-Ethylbenzene	%	-		101	103	90	105		2110723
D4-1,2-Dichloroethane	%	-		110	110	111	113		2110723
o-Terphenyl	%	-	112	112	113	111	108		2110911

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035447
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

O'REG 153 TABLE 2 HYDROCARBONS (WATER)

Maxxam ID			FK5208	FK5209	FK5210	FK5211	FK5213		
Sampling Date			2010/03/23	2010/03/23	2010/03/23	2010/03/23	2010/03/23		
COC Number			185391-0	185391-0	185391-0	185391-0	185391-0		
	Units	**Criteria**	**OW23(D)**	**OW24(S)**	**OW14**	**OW24(D)**	**OW19**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons									
F1 (C6-C10)	ug/L	**750**	<100	<100	<100	600	<100	100	2110723
F1 (C6-C10) - BTEX	ug/L	**750**	<100	<100	<100	600	<100	100	2110723
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/L	**150**	<100	<100	<100	<100	<100	100	2110911
F3 (C16-C34 Hydrocarbons)	ug/L	**500**	<100	<100	<100	<100	<100	100	2110911
F4 (C34-C50 Hydrocarbons)	ug/L	**500**	<100	<100	<100	<100	<100	100	2110911
Reached Baseline at C50	ug/L	**-**	Yes	Yes	Yes	Yes	Yes		2110911
F1 + F2	ug/L	**-**	<100	<100	<100	600	<100	100	2108790
F3 + F4	ug/L	**-**	<100	<100	<100	<100	<100	100	2108791
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	-	98	96	98	99	98		2110723
4-Bromofluorobenzene	%	-	98	99	98	97	96		2110723
D10-Ethylbenzene	%	-	102	101	87	103	98		2110723
D4-1,2-Dichloroethane	%	-	111	109	110	108	112		2110723
o-Terphenyl	%	-	113	111	109	109	113		2110911

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035447
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

O'REG 153 TABLE 2 HYDROCARBONS (WATER)

Maxxam ID			FK5214	FK5215		
Sampling Date			2010/03/23	2010/03/23		
COC Number			185391-0	185391-0		
	Units	**Criteria**	**OW18-I**	**OW18-II**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons						
F1 (C6-C10)	ug/L	**750**	<100	<100	100	2110723
F1 (C6-C10) - BTEX	ug/L	**750**	<100	<100	100	2110723
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	**150**	<100	<100	100	2110911
F3 (C16-C34 Hydrocarbons)	ug/L	**500**	<100	<100	100	2110911
F4 (C34-C50 Hydrocarbons)	ug/L	**500**	<100	<100	100	2110911
Reached Baseline at C50	ug/L	**-**	Yes	Yes		2110911
F1 + F2	ug/L	**-**	<100	<100	100	2109430
F3 + F4	ug/L	**-**	<100	<100	100	2109431
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	-	97	98		2110723
4-Bromofluorobenzene	%	-	97	97		2110723
D10-Ethylbenzene	%	-	98	89		2110723
D4-1,2-Dichloroethane	%	-	112	112		2110723
o-Terphenyl	%	-	113	112		2110911

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035447
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

RESULTS OF ANALYSES OF WATER

Maxxam ID			FK5201		FK5202			FK5203		
Sampling Date			2010/03/23		2010/03/23			2010/03/23		
COC Number			185391-0		185391-0			185391-0		
	Units	**Criteria**	**OW16**	**QC Batch**	**OW12**	**RDL**	**QC Batch**	**OW27(S)**	**RDL**	**QC Batch**
Inorganics										
Conductivity	umho/cm	-	640	2109864	703	1	2109864	1180	1	2110171
Fluoride (F-)	mg/L	-	0.2	2109872	0.2	0.1	2109872	0.1	0.1	2110172
Orthophosphate (P)	mg/L	-	<0.01	2110078	<0.01	0.01	2110078	<0.01	0.01	2110078
pH	pH	-	7.5	2109871	7.5		2109871	7.7		2110170
Alkalinity (Total as CaCO3)	mg/L	-	330	2109858	369	1	2109858	253	1	2110168
Nitrite (N)	mg/L	-	0.01	2110118	0.02	0.01	2109751	<0.01	0.01	2110118
Dissolved Chloride (Cl)	mg/L	**790**	5	2110116	2	1	2110116	211	2	2112056
Nitrate (N)	mg/L	-	0.2	2110118	0.8	0.1	2109751	0.7	0.1	2110118
Dissolved Bromide (Br-)	mg/L	-	<1	2110116	<1	1	2110116	<1	1	2112056
Dissolved Sulphate (SO4)	mg/L	-	17	2110116	17	1	2110116	21	1	2112056

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035447
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

RESULTS OF ANALYSES OF WATER

Maxxam ID			FK5204		FK5205			FK5206	FK5206		
Sampling Date			2010/03/23		2010/03/23			2010/03/23	2010/03/23		
COC Number			185391-0		185391-0			185391-0	185391-0		
	Units	**Criteria**	**OW27(D)**	**RDL**	**OW30(S)**	**RDL**	**QC Batch**	**OW30(D)**	**OW30(D) Lab-Dup**	**RDL**	**QC Batch**
Inorganics											
Conductivity	umho/cm	-	870	1	5500	1	2109864	853	843	1	2110171
Fluoride (F-)	mg/L	-	0.4	0.1	0.5	0.1	2109872	0.5	0.5	0.1	2110172
Orthophosphate (P)	mg/L	-	0.04	0.01	<0.01	0.01	2110078	<0.01		0.01	2110078
pH	pH	-	7.6		7.5		2109871	7.7	7.7		2110170
Alkalinity (Total as CaCO3)	mg/L	-	257	1	312	1	2109858	281	285	1	2110168
Nitrite (N)	mg/L	-	<0.01	0.01	<0.01	0.01	2109751	<0.01		0.01	2110118
Dissolved Chloride (Cl)	mg/L	**790**	86	1	**1610**	10	2110116	50	50	1	2112056
Nitrate (N)	mg/L	-	<0.1	0.1	0.8	0.1	2109751	<0.1		0.1	2110118
Dissolved Bromide (Br-)	mg/L	-	<1	1	<1	1	2110116	<1	<1	1	2112056
Dissolved Sulphate (SO4)	mg/L	-	67	1	59	1	2110116	94	93	1	2112056

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035447
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

RESULTS OF ANALYSES OF WATER

Maxxam ID			FK5207			FK5208		FK5209		
Sampling Date			2010/03/23			2010/03/23		2010/03/23		
COC Number			185391-0			185391-0		185391-0		
	Units	**Criteria**	**OW23(S)**	**RDL**	**QC Batch**	**OW23(D)**	**QC Batch**	**OW24(S)**	**RDL**	**QC Batch**
Inorganics										
Conductivity	umho/cm	-	1030	1	2109864	819	2109864	638	1	2110171
Fluoride (F-)	mg/L	-	0.6	0.1	2109872	0.9	2109872	0.6	0.1	2110172
Orthophosphate (P)	mg/L	-	<0.05 (1)	0.05	2111498	<0.01	2110078	<0.01	0.01	2111498
pH	pH	-	7.2		2109871	7.2	2109871	7.8		2110170
Alkalinity (Total as CaCO3)	mg/L	-	474	1	2109858	365	2109858	260	1	2110168
Nitrite (N)	mg/L	-	<0.1	0.1	2110118	<0.01	2110118	<0.01	0.01	2110118
Dissolved Chloride (Cl)	mg/L	**790**	8	1	2110116	16	2110116	30	1	2112056
Nitrate (N)	mg/L	-	<1	1	2110118	<0.1	2110118	1.4	0.1	2110118
Dissolved Bromide (Br-)	mg/L	-	<1	1	2110116	<1	2110116	<1	1	2112056
Dissolved Sulphate (SO4)	mg/L	-	95	1	2110116	63	2110116	29	1	2112056

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil
(1) Due to the colour interferences, sample required dilution. Detection limit was adjusted accordingly.

AECOM Canada Ltd
Maxxam Job #: B035447
Client Project #: 6014910
Report Date: 2010/07/08
Project name: IMICO SITE-MARCH 2010 SAMPLING

RESULTS OF ANALYSES OF WATER

Maxxam ID			FK5210		FK5211	FK5213		FK5214		
Sampling Date			2010/03/23		2010/03/23	2010/03/23		2010/03/23		
COC Number			185391-0		185391-0	185391-0		185391-0		
	Units	**Criteria**	**OW14**	**QC Batch**	**OW24(D)**	**OW19**	**QC Batch**	**OW18-I**	**RDL**	**QC Batch**
Inorganics										
Conductivity	umho/cm	-	630	2110171	1030	803	2109864	953	1	2110171
Fluoride (F-)	mg/L	-	3.1	2110172	0.6	0.6	2109872	0.4	0.1	2110172
Orthophosphate (P)	mg/L	-	<0.01	2111498	<0.01	<0.01	2110078	<0.01	0.01	2111498
pH	pH	-	7.7	2110170	7.3	7.2	2109871	7.6		2110170
Alkalinity (Total as CaCO3)	mg/L	-	275	2110168	347	314	2109858	337	1	2110168
Nitrite (N)	mg/L	-	<0.01	2110118	<0.01	<0.01	2109751	0.01	0.01	2110118
Dissolved Chloride (Cl)	mg/L	**790**	11	2112056	71	5	2110116	94	1	2110116
Nitrate (N)	mg/L	-	0.1	2110118	<0.1	<0.1	2109751	<0.1	0.1	2110118
Dissolved Bromide (Br-)	mg/L	-	<1	2112056	<1	<1	2110116	<1	1	2110116
Dissolved Sulphate (SO4)	mg/L	-	47	2112056	110	129	2110116	34	1	2110116

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035447
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

RESULTS OF ANALYSES OF WATER

Maxxam ID			FK5215		
Sampling Date			2010/03/23		
COC Number			185391-0		
	Units	**Criteria**	**OW18-II**	**RDL**	**QC Batch**
Inorganics					
Conductivity	umho/cm	-	936	1	2109864
Fluoride (F-)	mg/L	-	0.8	0.1	2109872
Orthophosphate (P)	mg/L	-	<0.01	0.01	2110078
pH	pH	-	7.5		2109871
Alkalinity (Total as CaCO3)	mg/L	-	385	1	2109858
Nitrite (N)	mg/L	-	<0.01	0.01	2110118
Dissolved Chloride (Cl)	mg/L	**790**	22	1	2110116
Nitrate (N)	mg/L	-	<0.1	0.1	2110118
Dissolved Bromide (Br-)	mg/L	-	<1	1	2110116
Dissolved Sulphate (SO4)	mg/L	-	104	1	2110116

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035447
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID			FK5201	FK5202	FK5203	FK5204		FK5205		
Sampling Date			2010/03/23	2010/03/23	2010/03/23	2010/03/23		2010/03/23		
COC Number			185391-0	185391-0	185391-0	185391-0		185391-0		
	Units	**Criteria**	**OW16**	**OW12**	**OW27(S)**	**OW27(D)**	**RDL**	**OW30(S)**	**RDL**	**QC Batch**
Metals										
Dissolved Arsenic (As)	ug/L	**25**	<1	<1	<1	2	1	<5 (1)	5	2111023
Dissolved Calcium (Ca)	ug/L	**-**	110000	110000	130000	99000	200	220000	200	2111023
Dissolved Lead (Pb)	ug/L	**10**	2.0	<0.5	<0.5	<0.5	0.5	<0.5	0.5	2111023
Dissolved Magnesium (Mg)	ug/L	**-**	19000	26000	23000	29000	50	43000	50	2111023
Dissolved Potassium (K)	ug/L	**-**	1000	2300	4100	2400	200	5400	200	2111023
Dissolved Sodium (Na)	ug/L	**490000**	5300	3600	73000	51000	100	**820000**	100	2111023
Dissolved Zinc (Zn)	ug/L	**1100**	190	94	590	14	5	1100	5	2111023

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil
(1) Detection Limit was raised due to matrix interferences.

Maxxam ID			FK5206	FK5207	FK5208	FK5208	FK5209		
Sampling Date			2010/03/23	2010/03/23	2010/03/23	2010/03/23	2010/03/23		
COC Number			185391-0	185391-0	185391-0	185391-0	185391-0		
	Units	**Criteria**	**OW30(D)**	**OW23(S)**	**OW23(D)**	**OW23(D) Lab-Dup**	**OW24(S)**	**RDL**	**QC Batch**
Metals									
Dissolved Arsenic (As)	ug/L	**25**	2	1	13	13	<1	1	2111023
Dissolved Calcium (Ca)	ug/L	**-**	110000	170000	120000	120000	87000	200	2111023
Dissolved Lead (Pb)	ug/L	**10**	<0.5	<0.5	1.1	1.1	<0.5	0.5	2111023
Dissolved Magnesium (Mg)	ug/L	**-**	28000	28000	26000	26000	17000	50	2111023
Dissolved Potassium (K)	ug/L	**-**	2400	11000	4400	4500	3300	200	2111023
Dissolved Sodium (Na)	ug/L	**490000**	32000	15000	21000	21000	22000	100	2111023
Dissolved Zinc (Zn)	ug/L	**1100**	260	10	760	760	400	5	2111023

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035447
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID			FK5210	FK5211	FK5213	FK5214	FK5215		
Sampling Date			2010/03/23	2010/03/23	2010/03/23	2010/03/23	2010/03/23		
COC Number			185391-0	185391-0	185391-0	185391-0	185391-0		
	Units	**Criteria**	**OW14**	**OW24(D)**	**OW19**	**OW18-I**	**OW18-II**	**RDL**	**QC Batch**
Metals									
Dissolved Arsenic (As)	ug/L	**25**	<1	2	<1	<1	5	1	2111023
Dissolved Calcium (Ca)	ug/L	**-**	87000	130000	170000	110000	130000	200	2111023
Dissolved Lead (Pb)	ug/L	**10**	<0.5	<0.5	1.0	0.6	<0.5	0.5	2111023
Dissolved Magnesium (Mg)	ug/L	**-**	27000	30000	30000	27000	33000	50	2111023
Dissolved Potassium (K)	ug/L	**-**	3000	4400	2800	3900	5500	200	2111023
Dissolved Sodium (Na)	ug/L	**490000**	5400	43000	8300	39000	19000	100	2111023
Dissolved Zinc (Zn)	ug/L	**1100**	**1300**	580	**4500**	**1300**	960	5	2111023

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035447
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID			FK5202	FK5203	FK5203	FK5204		
Sampling Date			2010/03/23	2010/03/23	2010/03/23	2010/03/23		
COC Number			185391-0	185391-0	185391-0	185391-0		
	Units	**Criteria**	**OW12**	**OW27(S)**	**OW27(S) Lab-Dup**	**OW27(D)**	**RDL**	**QC Batch**
Volatile Organics								
Acetone (2-Propanone)	ug/L	**2700**	<10	<10	<10	<10	10	2109887
Benzene	ug/L	**5.0**	<0.1	<0.1	<0.1	<0.1	0.1	2109887
Bromodichloromethane	ug/L	**16.0**	<0.1	<0.1	<0.1	<0.1	0.1	2109887
Bromoform	ug/L	**25.0**	<0.2	<0.2	<0.2	<0.2	0.2	2109887
Bromomethane	ug/L	**0.89**	<0.5	<0.5	<0.5	<0.5	0.5	2109887
Carbon Tetrachloride	ug/L	**0.79**	<0.1	<0.1	<0.1	<0.1	0.1	2109887
Chlorobenzene	ug/L	**30**	<0.1	<0.1	<0.1	<0.1	0.1	2109887
Chloroform	ug/L	**2.4**	<0.1	<0.1	<0.1	<0.1	0.1	2109887
Dibromochloromethane	ug/L	**25.0**	<0.2	<0.2	<0.2	<0.2	0.2	2109887
1,2-Dichlorobenzene	ug/L	**3.0**	<0.2	<0.2	<0.2	<0.2	0.2	2109887
1,3-Dichlorobenzene	ug/L	**59**	<0.2	<0.2	<0.2	<0.2	0.2	2109887
1,4-Dichlorobenzene	ug/L	**1.0**	<0.2	<0.2	<0.2	<0.2	0.2	2109887
Dichlorodifluoromethane (FREON 12)	ug/L	**590**	<0.5	<0.5	<0.5	<0.5	0.5	2109887
1,1-Dichloroethane	ug/L	**5**	1.3	<0.1	<0.1	<0.1	0.1	2109887
1,2-Dichloroethane	ug/L	**1.6**	<0.2	<0.2	<0.2	<0.2	0.2	2109887
1,1-Dichloroethylene	ug/L	**1.6**	<0.1	<0.1	<0.1	<0.1	0.1	2109887
cis-1,2-Dichloroethylene	ug/L	**1.6**	<0.1	**4.0**	**4.1**	**1.8**	0.1	2109887
trans-1,2-Dichloroethylene	ug/L	**1.6**	<0.1	0.4	0.4	0.2	0.1	2109887
1,2-Dichloropropane	ug/L	**5.0**	<0.1	<0.1	<0.1	<0.1	0.1	2109887
cis-1,3-Dichloropropene	ug/L	**0.5**	<0.2	<0.2	<0.2	<0.2	0.2	2109887
trans-1,3-Dichloropropene	ug/L	**0.5**	<0.2	<0.2	<0.2	<0.2	0.2	2109887
Ethylbenzene	ug/L	**2.4**	<0.1	<0.1	<0.1	<0.1	0.1	2109887
Ethylene Dibromide	ug/L	**0.2**	<0.2	<0.2	<0.2	<0.2	0.2	2109887
Hexane	ug/L	**51**	<0.5	<0.5	<0.5	<0.5	0.5	2109887
Methylene Chloride(Dichloromethane)	ug/L	**50**	<0.5	<0.5	<0.5	<0.5	0.5	2109887
Methyl Isobutyl Ketone	ug/L	**640**	<5	<5	<5	<5	5	2109887
Methyl Ethyl Ketone (2-Butanone)	ug/L	**1800**	<5	<5	<5	<5	5	2109887
Methyl t-butyl ether (MTBE)	ug/L	**15**	<0.2	<0.2	<0.2	<0.2	0.2	2109887
Styrene	ug/L	**5.4**	<0.2	<0.2	<0.2	<0.2	0.2	2109887
1,1,1,2-Tetrachloroethane	ug/L	**1.1**	<0.1	<0.1	<0.1	<0.1	0.1	2109887

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035447
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID			FK5202	FK5203	FK5203	FK5204		
Sampling Date			2010/03/23	2010/03/23	2010/03/23	2010/03/23		
COC Number			185391-0	185391-0	185391-0	185391-0		
	Units	**Criteria**	**OW12**	**OW27(S)**	**OW27(S) Lab-Dup**	**OW27(D)**	**RDL**	**QC Batch**
1,1,2,2-Tetrachloroethane	ug/L	**1.0**	<0.2	<0.2	<0.2	<0.2	0.2	2109887
Tetrachloroethylene	ug/L	**1.6**	<0.1	<0.1	<0.1	<0.1	0.1	2109887
Toluene	ug/L	**24**	<0.2	<0.2	<0.2	<0.2	0.2	2109887
1,1,1-Trichloroethane	ug/L	**200**	13	<0.1	<0.1	<0.1	0.1	2109887
1,1,2-Trichloroethane	ug/L	**4.7**	<0.2	<0.2	<0.2	<0.2	0.2	2109887
Trichloroethylene	ug/L	**1.6**	0.2	**10**	**10**	<0.1	0.1	2109887
Vinyl Chloride	ug/L	**0.5**	<0.2	<0.2	<0.2	<0.2	0.2	2109887
p+m-Xylene	ug/L	**-**	<0.1	<0.1	<0.1	<0.1	0.1	2109887
o-Xylene	ug/L	**-**	<0.1	<0.1	<0.1	<0.1	0.1	2109887
Xylene (Total)	ug/L	**300**	<0.1	<0.1	<0.1	<0.1	0.1	2109887
Chloroethane	ug/L	**-**	<0.2	<0.2	<0.2	<0.2	0.2	2109887
Chloromethane	ug/L	**-**	<0.5	<0.5	<0.5	<0.5	0.5	2109887
Trichlorofluoromethane (FREON 11)	ug/L	**150**	<0.2	<0.2		<0.2	0.2	2109887
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	-	97	98	96	96		2109887
D4-1,2-Dichloroethane	%	-	116	118	120	121		2109887
D8-Toluene	%	-	100	100	102	100		2109887

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035447
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID			FK5205		FK5206		FK5207		
Sampling Date			2010/03/23		2010/03/23		2010/03/23		
COC Number			185391-0		185391-0		185391-0		
	Units	**Criteria**	**OW30(S)**	**RDL**	**OW30(D)**	**RDL**	**OW23(S)**	**RDL**	**QC Batch**
Volatile Organics									
Acetone (2-Propanone)	ug/L	**2700**	<500	500	<3000	3000	<30	30	2109887
Benzene	ug/L	**5.0**	<5	5	<30	30	<0.3	0.3	2109887
Bromodichloromethane	ug/L	**16.0**	<5	5	<30	30	<0.3	0.3	2109887
Bromoform	ug/L	**25.0**	<10	10	<50	50	<0.5	0.5	2109887
Bromomethane	ug/L	**0.89**	<30	30	<100	100	<1	1	2109887
Carbon Tetrachloride	ug/L	**0.79**	<5	5	<30	30	<0.3	0.3	2109887
Chlorobenzene	ug/L	**30**	<5	5	<30	30	<0.3	0.3	2109887
Chloroform	ug/L	**2.4**	<5	5	<30	30	<0.3	0.3	2109887
Dibromochloromethane	ug/L	**25.0**	<10	10	<50	50	<0.5	0.5	2109887
1,2-Dichlorobenzene	ug/L	**3.0**	<10	10	<50	50	<0.5	0.5	2109887
1,3-Dichlorobenzene	ug/L	**59**	<10	10	<50	50	<0.5	0.5	2109887
1,4-Dichlorobenzene	ug/L	**1.0**	<10	10	<50	50	<0.5	0.5	2109887
Dichlorodifluoromethane (FREON 12)	ug/L	**590**	<30	30	<100	100	<1	1	2109887
1,1-Dichloroethane	ug/L	**5**	<5	5	<30	30	<0.3	0.3	2109887
1,2-Dichloroethane	ug/L	**1.6**	<10	10	<50	50	<0.5	0.5	2109887
1,1-Dichloroethylene	ug/L	**1.6**	<5	5	**36**	30	<0.3	0.3	2109887
cis-1,2-Dichloroethylene	ug/L	**1.6**	**37**	5	**500**	30	<0.3	0.3	2109887
trans-1,2-Dichloroethylene	ug/L	**1.6**	<5	5	<30	30	<0.3	0.3	2109887
1,2-Dichloropropane	ug/L	**5.0**	<5	5	<30	30	<0.3	0.3	2109887
cis-1,3-Dichloropropene	ug/L	**0.5**	<10	10	<50	50	<0.5	0.5	2109887
trans-1,3-Dichloropropene	ug/L	**0.5**	<10	10	<50	50	<0.5	0.5	2109887
Ethylbenzene	ug/L	**2.4**	<5	5	<30	30	<0.3	0.3	2109887
Ethylene Dibromide	ug/L	**0.2**	<10	10	<50	50	<0.5	0.5	2109887
Hexane	ug/L	**51**	<30	30	<100	100	<1	1	2109887
Methylene Chloride(Dichloromethane)	ug/L	**50**	<30	30	<100	100	<1	1	2109887
Methyl Isobutyl Ketone	ug/L	**640**	<300	300	<1000	1000	<10	10	2109887
Methyl Ethyl Ketone (2-Butanone)	ug/L	**1800**	<300	300	<1000	1000	<10	10	2109887
Methyl t-butyl ether (MTBE)	ug/L	**15**	<10	10	<50	50	<0.5	0.5	2109887
Styrene	ug/L	**5.4**	<10	10	<50	50	<0.5	0.5	2109887
1,1,1,2-Tetrachloroethane	ug/L	**1.1**	<5	5	<30	30	<0.3	0.3	2109887

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035447
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID			FK5205		FK5206		FK5207		
Sampling Date			2010/03/23		2010/03/23		2010/03/23		
COC Number			185391-0		185391-0		185391-0		
	Units	**Criteria**	**OW30(S)**	**RDL**	**OW30(D)**	**RDL**	**OW23(S)**	**RDL**	**QC Batch**
1,1,2,2-Tetrachloroethane	ug/L	**1.0**	<10	10	<50	50	<0.5	0.5	2109887
Tetrachloroethylene	ug/L	**1.6**	<5	5	<30	30	<0.3	0.3	2109887
Toluene	ug/L	**24**	<10	10	<50	50	<0.5	0.5	2109887
1,1,1-Trichloroethane	ug/L	**200**	<5	5	<30	30	<0.3	0.3	2109887
1,1,2-Trichloroethane	ug/L	**4.7**	<10	10	<50	50	<0.5	0.5	2109887
Trichloroethylene	ug/L	**1.6**	**830**	5	**4900**	30	<0.3	0.3	2109887
Vinyl Chloride	ug/L	**0.5**	<10	10	**75**	50	<0.5	0.5	2109887
p+m-Xylene	ug/L	**-**	<5	5	<30	30	<0.3	0.3	2109887
o-Xylene	ug/L	**-**	<5	5	<30	30	<0.3	0.3	2109887
Xylene (Total)	ug/L	**300**	<5	5	<30	30	<0.3	0.3	2109887
Chloroethane	ug/L	**-**	<10	10	<50	50	<0.5	0.5	2109887
Chloromethane	ug/L	**-**	<30	30	<100	100	<1	1	2109887
Trichlorofluoromethane (FREON 11)	ug/L	**150**	<10	10	<50	50	<0.5	0.5	2109887
Surrogate Recovery (%)									
4-Bromofluorobenzene	%	-	96		97		104		2109887
D4-1,2-Dichloroethane	%	-	117		117		126		2109887
D8-Toluene	%	-	101		102		102		2109887

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035447
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID			FK5208	FK5209		FK5210		FK5211		
Sampling Date			2010/03/23	2010/03/23		2010/03/23		2010/03/23		
COC Number			185391-0	185391-0		185391-0		185391-0		
	Units	**Criteria**	**OW23(D)**	**OW24(S)**	**RDL**	**OW14**	**RDL**	**OW24(D)**	**RDL**	**QC Batch**
Volatile Organics										
Acetone (2-Propanone)	ug/L	**2700**	<50	<50	50	<10	10	<3000	3000	2109887
Benzene	ug/L	**5.0**	1.7	<0.5	0.5	<0.1	0.1	<30	30	2109887
Bromodichloromethane	ug/L	**16.0**	<0.5	<0.5	0.5	<0.1	0.1	<30	30	2109887
Bromoform	ug/L	**25.0**	<1	<1	1	<0.2	0.2	<50	50	2109887
Bromomethane	ug/L	**0.89**	<3	<3	3	<0.5	0.5	<100	100	2109887
Carbon Tetrachloride	ug/L	**0.79**	<0.5	<0.5	0.5	<0.1	0.1	<30	30	2109887
Chlorobenzene	ug/L	**30**	<0.5	<0.5	0.5	<0.1	0.1	<30	30	2109887
Chloroform	ug/L	**2.4**	<0.5	<0.5	0.5	<0.1	0.1	<30	30	2109887
Dibromochloromethane	ug/L	**25.0**	<1	<1	1	<0.2	0.2	<50	50	2109887
1,2-Dichlorobenzene	ug/L	**3.0**	<1	<1	1	<0.2	0.2	<50	50	2109887
1,3-Dichlorobenzene	ug/L	**59**	<1	<1	1	<0.2	0.2	<50	50	2109887
1,4-Dichlorobenzene	ug/L	**1.0**	<1	<1	1	<0.2	0.2	<50	50	2109887
Dichlorodifluoromethane (FREON 12)	ug/L	**590**	<3	<3	3	<0.5	0.5	<100	100	2109887
1,1-Dichloroethane	ug/L	**5**	<0.5	<0.5	0.5	<0.1	0.1	<30	30	2109887
1,2-Dichloroethane	ug/L	**1.6**	<1	<1	1	<0.2	0.2	<50	50	2109887
1,1-Dichloroethylene	ug/L	**1.6**	<0.5	<0.5	0.5	<0.1	0.1	<30	30	2109887
cis-1,2-Dichloroethylene	ug/L	**1.6**	**23**	<0.5	0.5	**2.3**	0.1	**450**	30	2109887
trans-1,2-Dichloroethylene	ug/L	**1.6**	0.6	<0.5	0.5	0.2	0.1	**35**	30	2109887
1,2-Dichloropropane	ug/L	**5.0**	<0.5	<0.5	0.5	<0.1	0.1	<30	30	2109887
cis-1,3-Dichloropropene	ug/L	**0.5**	<1	<1	1	<0.2	0.2	<50	50	2109887
trans-1,3-Dichloropropene	ug/L	**0.5**	<1	<1	1	<0.2	0.2	<50	50	2109887
Ethylbenzene	ug/L	**2.4**	<0.5	<0.5	0.5	<0.1	0.1	<30	30	2109887
Ethylene Dibromide	ug/L	**0.2**	<1	<1	1	<0.2	0.2	<50	50	2109887
Hexane	ug/L	**51**	<3	<3	3	<0.5	0.5	<100	100	2109887
Methylene Chloride(Dichloromethane)	ug/L	**50**	<3	<3	3	<0.5	0.5	<100	100	2109887
Methyl Isobutyl Ketone	ug/L	**640**	<30	<30	30	<5	5	<1000	1000	2109887
Methyl Ethyl Ketone (2-Butanone)	ug/L	**1800**	<30	<30	30	<5	5	<1000	1000	2109887
Methyl t-butyl ether (MTBE)	ug/L	**15**	<1	<1	1	<0.2	0.2	<50	50	2109887
Styrene	ug/L	**5.4**	<1	<1	1	<0.2	0.2	<50	50	2109887
1,1,1,2-Tetrachloroethane	ug/L	**1.1**	<0.5	<0.5	0.5	<0.1	0.1	<30	30	2109887

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035447
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID			FK5208	FK5209		FK5210		FK5211		
Sampling Date			2010/03/23	2010/03/23		2010/03/23		2010/03/23		
COC Number			185391-0	185391-0		185391-0		185391-0		
	Units	**Criteria**	**OW23(D)**	**OW24(S)**	**RDL**	**OW14**	**RDL**	**OW24(D)**	**RDL**	**QC Batch**
1,1,2,2-Tetrachloroethane	ug/L	**1.0**	<1	<1	1	<0.2	0.2	<50	50	2109887
Tetrachloroethylene	ug/L	**1.6**	<0.5	<0.5	0.5	<0.1	0.1	<30	30	2109887
Toluene	ug/L	**24**	<1	<1	1	<0.2	0.2	<50	50	2109887
1,1,1-Trichloroethane	ug/L	**200**	<0.5	<0.5	0.5	<0.1	0.1	<30	30	2109887
1,1,2-Trichloroethane	ug/L	**4.7**	<1	<1	1	<0.2	0.2	<50	50	2109887
Trichloroethylene	ug/L	**1.6**	**2.0**	**85**	0.5	0.4	0.1	**2700**	30	2109887
Vinyl Chloride	ug/L	**0.5**	**4**	<1	1	<0.2	0.2	<50	50	2109887
p+m-Xylene	ug/L	**-**	<0.5	<0.5	0.5	<0.1	0.1	<30	30	2109887
o-Xylene	ug/L	**-**	<0.5	<0.5	0.5	<0.1	0.1	<30	30	2109887
Xylene (Total)	ug/L	**300**	<0.5	<0.5	0.5	<0.1	0.1	<30	30	2109887
Chloroethane	ug/L	**-**	<1	<1	1	<0.2	0.2	<50	50	2109887
Chloromethane	ug/L	**-**	<3	<3	3	<0.5	0.5	<100	100	2109887
Trichlorofluoromethane (FREON 11)	ug/L	**150**	<1	<1	1	<0.2	0.2	<50	50	2109887
Surrogate Recovery (%)										
4-Bromofluorobenzene	%	-	99	99		98		98		2109887
D4-1,2-Dichloroethane	%	-	113	115		120		120		2109887
D8-Toluene	%	-	101	101		102		102		2109887

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035447
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID			FK5212	FK5213	FK5214		FK5215		
Sampling Date			2010/03/23	2010/03/23	2010/03/23		2010/03/23		
COC Number			185391-0	185391-0	185391-0		185391-0		
	Units	**Criteria**	**TRIP BLANK**	**OW19**	**OW18-I**	**RDL**	**OW18-II**	**RDL**	**QC Batch**
Volatile Organics									
Acetone (2-Propanone)	ug/L	**2700**	<10	<10	<10	10	<50	50	2109887
Benzene	ug/L	**5.0**	<0.1	<0.1	<0.1	0.1	2.9	0.5	2109887
Bromodichloromethane	ug/L	**16.0**	<0.1	<0.1	<0.1	0.1	<0.5	0.5	2109887
Bromoform	ug/L	**25.0**	<0.2	<0.2	<0.2	0.2	<1	1	2109887
Bromomethane	ug/L	**0.89**	<0.5	<0.5	<0.5	0.5	<3	3	2109887
Carbon Tetrachloride	ug/L	**0.79**	<0.1	<0.1	<0.1	0.1	<0.5	0.5	2109887
Chlorobenzene	ug/L	**30**	<0.1	<0.1	<0.1	0.1	<0.5	0.5	2109887
Chloroform	ug/L	**2.4**	<0.1	<0.1	<0.1	0.1	<0.5	0.5	2109887
Dibromochloromethane	ug/L	**25.0**	<0.2	<0.2	<0.2	0.2	<1	1	2109887
1,2-Dichlorobenzene	ug/L	**3.0**	<0.2	<0.2	<0.2	0.2	<1	1	2109887
1,3-Dichlorobenzene	ug/L	**59**	<0.2	<0.2	<0.2	0.2	<1	1	2109887
1,4-Dichlorobenzene	ug/L	**1.0**	<0.2	<0.2	<0.2	0.2	<1	1	2109887
Dichlorodifluoromethane (FREON 12)	ug/L	**590**	<0.5	<0.5	<0.5	0.5	<3	3	2109887
1,1-Dichloroethane	ug/L	**5**	<0.1	<0.1	<0.1	0.1	<0.5	0.5	2109887
1,2-Dichloroethane	ug/L	**1.6**	<0.2	<0.2	<0.2	0.2	<1	1	2109887
1,1-Dichloroethylene	ug/L	**1.6**	<0.1	<0.1	<0.1	0.1	**1.9**	0.5	2109887
cis-1,2-Dichloroethylene	ug/L	**1.6**	<0.1	<0.1	**3.0**	0.1	**130**	0.5	2109887
trans-1,2-Dichloroethylene	ug/L	**1.6**	<0.1	<0.1	0.5	0.1	**3.1**	0.5	2109887
1,2-Dichloropropane	ug/L	**5.0**	<0.1	<0.1	<0.1	0.1	<0.5	0.5	2109887
cis-1,3-Dichloropropene	ug/L	**0.5**	<0.2	<0.2	<0.2	0.2	<1	1	2109887
trans-1,3-Dichloropropene	ug/L	**0.5**	<0.2	<0.2	<0.2	0.2	<1	1	2109887
Ethylbenzene	ug/L	**2.4**	<0.1	<0.1	<0.1	0.1	<0.5	0.5	2109887
Ethylene Dibromide	ug/L	**0.2**	<0.2	<0.2	<0.2	0.2	<1	1	2109887
Hexane	ug/L	**51**	<0.5	<0.5	<0.5	0.5	<3	3	2109887
Methylene Chloride(Dichloromethane)	ug/L	**50**	<0.5	<0.5	<0.5	0.5	<3	3	2109887
Methyl Isobutyl Ketone	ug/L	**640**	<5	<5	<5	5	<30	30	2109887
Methyl Ethyl Ketone (2-Butanone)	ug/L	**1800**	<5	<5	<5	5	<30	30	2109887
Methyl t-butyl ether (MTBE)	ug/L	**15**	<0.2	<0.2	<0.2	0.2	<1	1	2109887
Styrene	ug/L	**5.4**	<0.2	<0.2	<0.2	0.2	<1	1	2109887
1,1,1,2-Tetrachloroethane	ug/L	**1.1**	<0.1	<0.1	<0.1	0.1	<0.5	0.5	2109887

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035447
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID			FK5212	FK5213	FK5214		FK5215		
Sampling Date			2010/03/23	2010/03/23	2010/03/23		2010/03/23		
COC Number			185391-0	185391-0	185391-0		185391-0		
	Units	**Criteria**	**TRIP BLANK**	**OW19**	**OW18-I**	**RDL**	**OW18-II**	**RDL**	**QC Batch**
1,1,2,2-Tetrachloroethane	ug/L	**1.0**	<0.2	<0.2	<0.2	0.2	<1	1	2109887
Tetrachloroethylene	ug/L	**1.6**	<0.1	0.4	0.1	0.1	<0.5	0.5	2109887
Toluene	ug/L	**24**	<0.2	<0.2	<0.2	0.2	<1	1	2109887
1,1,1-Trichloroethane	ug/L	**200**	<0.1	<0.1	0.1	0.1	<0.5	0.5	2109887
1,1,2-Trichloroethane	ug/L	**4.7**	<0.2	<0.2	<0.2	0.2	<1	1	2109887
Trichloroethylene	ug/L	**1.6**	<0.1	0.4	**20**	0.1	**2.7**	0.5	2109887
Vinyl Chloride	ug/L	**0.5**	<0.2	<0.2	<0.2	0.2	**48**	1	2109887
p+m-Xylene	ug/L	**-**	<0.1	<0.1	<0.1	0.1	<0.5	0.5	2109887
o-Xylene	ug/L	**-**	<0.1	<0.1	<0.1	0.1	<0.5	0.5	2109887
Xylene (Total)	ug/L	**300**	<0.1	<0.1	<0.1	0.1	<0.5	0.5	2109887
Chloroethane	ug/L	**-**	<0.2	<0.2	<0.2	0.2	<1	1	2109887
Chloromethane	ug/L	**-**	<0.5	<0.5	<0.5	0.5	<3	3	2109887
Trichlorofluoromethane (FREON 11)	ug/L	**150**	<0.2	<0.2	<0.2	0.2	<1	1	2109887
Surrogate Recovery (%)									
4-Bromofluorobenzene	%	-	96	104	100		98		2109887
D4-1,2-Dichloroethane	%	-	115	120	115		117		2109887
D8-Toluene	%	-	100	102	101		101		2109887

RDL = Reportable Detection Limit
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Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
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AECOM Canada Ltd
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Project name: IMICO SITE-MARCH 2010 SAMPLING

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID			FK5201	FK5201		
Sampling Date			2010/03/23	2010/03/23		
COC Number			185391-0	185391-0		
	Units	**Criteria**	**OW16**	**OW16 Lab-Dup**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons						
Benzene	ug/L	**5.0**	<0.2	<0.2	0.2	2110723
Toluene	ug/L	**24**	<0.2	<0.2	0.2	2110723
Ethylbenzene	ug/L	**2.4**	<0.2	<0.2	0.2	2110723
o-Xylene	ug/L	**-**	<0.2	<0.2	0.2	2110723
p+m-Xylene	ug/L	**-**	<0.4	<0.4	0.4	2110723
Total Xylenes	ug/L	**300**	<0.4	<0.4	0.4	2110723
F1 (C6-C10)	ug/L	**750**	<100	<100	100	2110723
F1 (C6-C10) - BTEX	ug/L	**750**	<100	<100	100	2110723
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	-	97	96		2110723
4-Bromofluorobenzene	%	-	99	97		2110723
D10-Ethylbenzene	%	-	108	97		2110723
D4-1,2-Dichloroethane	%	-	109	106		2110723

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
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Package 1	2.3°C
Package 2	1.0°C
Package 3	2.0°C
Package 4	0.7°C
Package 5	1.7°C

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

GENERAL COMMENTS

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

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

Revised report: Reg 153 Criteria added as per client request.

Sample FK5207-01: Nitrite/Nitrate: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

VOC Analysis: Due to a level of petroleum hydrocarbon compounds beyond the appropriate range, the sample required dilution. The detection limits were adjusted accordingly.

Sample FK5208-01: VOC Analysis: Due to foaming, sample required dilution. The detection limits were adjusted accordingly.

Results relate only to the items tested.

AECOM Canada Ltd
Attention: Albanie Tremblay
Client Project #: 6014910
P.O. #:
Site Location: IMICO SITE-MARCH 2010 SAMPLING

Quality Assurance Report

Maxxam Job Number: MB035447

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2109751	C_N	Matrix Spike	Nitrite (N)	2010/03/26		107	%	80 - 120
			Nitrate (N)	2010/03/26		112	%	80 - 120
		Spiked Blank	Nitrite (N)	2010/03/26		105	%	85 - 115
			Nitrate (N)	2010/03/26		110	%	85 - 115
		Method Blank	Nitrite (N)	2010/03/26	<0.01		mg/L	
			Nitrate (N)	2010/03/26	<0.1		mg/L	
		RPD	Nitrite (N)	2010/03/26	NC		%	25
			Nitrate (N)	2010/03/26	NC		%	25
2109858	YPA	QC Standard	Alkalinity (Total as CaCO3)	2010/03/26		96	%	85 - 115
		Method Blank	Alkalinity (Total as CaCO3)	2010/03/26	<1		mg/L	
		RPD	Alkalinity (Total as CaCO3)	2010/03/26	0.04		%	25
2109864	YPA	QC Standard	Conductivity	2010/03/26		101	%	85 - 115
		Method Blank	Conductivity	2010/03/26	<1		umho/cm	
		RPD	Conductivity	2010/03/26	0.2		%	25
2109872	YPA	Matrix Spike	Fluoride (F-)	2010/03/26		98	%	80 - 120
		Spiked Blank	Fluoride (F-)	2010/03/26		100	%	85 - 115
		Method Blank	Fluoride (F-)	2010/03/26	<0.1		mg/L	
		RPD	Fluoride (F-)	2010/03/26	1.4		%	25
2109887	MAL	Matrix Spike						
		[FK5202-03]	4-Bromofluorobenzene	2010/03/28		106	%	70 - 130
			D4-1,2-Dichloroethane	2010/03/28		106	%	70 - 130
			D8-Toluene	2010/03/28		96	%	70 - 130
			Acetone (2-Propanone)	2010/03/28		113	%	60 - 140
			Benzene	2010/03/28		101	%	70 - 130
			Bromodichloromethane	2010/03/28		109	%	70 - 130
			Bromoform	2010/03/28		95	%	70 - 130
			Bromomethane	2010/03/28		117	%	60 - 140
			Carbon Tetrachloride	2010/03/28		112	%	70 - 130
			Chlorobenzene	2010/03/28		91	%	70 - 130
			Chloroform	2010/03/28		107	%	70 - 130
			Dibromochloromethane	2010/03/28		107	%	70 - 130
			1,2-Dichlorobenzene	2010/03/28		88	%	70 - 130
			1,3-Dichlorobenzene	2010/03/28		81	%	70 - 130
			1,4-Dichlorobenzene	2010/03/28		82	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2010/03/28		75	%	60 - 140
			1,1-Dichloroethane	2010/03/28		99	%	70 - 130
			1,2-Dichloroethane	2010/03/28		114	%	70 - 130
			1,1-Dichloroethylene	2010/03/28		105	%	70 - 130
			cis-1,2-Dichloroethylene	2010/03/28		102	%	70 - 130
			trans-1,2-Dichloroethylene	2010/03/28		96	%	70 - 130
			1,2-Dichloropropane	2010/03/28		106	%	70 - 130
			cis-1,3-Dichloropropene	2010/03/28		100	%	70 - 130
			trans-1,3-Dichloropropene	2010/03/28		98	%	70 - 130
			Ethylbenzene	2010/03/28		92	%	70 - 130
			Ethylene Dibromide	2010/03/28		106	%	70 - 130
			Hexane	2010/03/28		57 (1)	%	70 - 130
			Methylene Chloride(Dichloromethane)	2010/03/28		109	%	70 - 130
			Methyl Isobutyl Ketone	2010/03/28		120	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2010/03/28		112	%	60 - 140
			Methyl t-butyl ether (MTBE)	2010/03/28		112	%	70 - 130
			Styrene	2010/03/28		81	%	70 - 130
			1,1,1,2-Tetrachloroethane	2010/03/28		102	%	70 - 130
			1,1,2,2-Tetrachloroethane	2010/03/28		102	%	70 - 130
			Tetrachloroethylene	2010/03/28		76	%	70 - 130
			Toluene	2010/03/28		91	%	70 - 130

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Quality Assurance Report (Continued)

Maxxam Job Number: MB035447

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2109887	MAL	Matrix Spike						
		[FK5202-03]	1,1,1-Trichloroethane	2010/03/28		94	%	70 - 130
			1,1,2-Trichloroethane	2010/03/28		96	%	70 - 130
			Trichloroethylene	2010/03/28		91	%	70 - 130
			Vinyl Chloride	2010/03/28		98	%	70 - 130
			p+m-Xylene	2010/03/28		90	%	70 - 130
			o-Xylene	2010/03/28		91	%	70 - 130
			Chloroethane	2010/03/28		94	%	70 - 130
			Chloromethane	2010/03/28		97	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2010/03/28		93	%	70 - 130
		Spiked Blank	4-Bromofluorobenzene	2010/03/28		109	%	70 - 130
			D4-1,2-Dichloroethane	2010/03/28		108	%	70 - 130
			D8-Toluene	2010/03/28		99	%	70 - 130
			Acetone (2-Propanone)	2010/03/28		108	%	60 - 140
			Benzene	2010/03/28		99	%	70 - 130
			Bromodichloromethane	2010/03/28		106	%	70 - 130
			Bromoform	2010/03/28		93	%	70 - 130
			Bromomethane	2010/03/28		95	%	60 - 140
			Carbon Tetrachloride	2010/03/28		113	%	70 - 130
			Chlorobenzene	2010/03/28		98	%	70 - 130
			Chloroform	2010/03/28		105	%	70 - 130
			Dibromochloromethane	2010/03/28		106	%	70 - 130
			1,2-Dichlorobenzene	2010/03/28		91	%	70 - 130
			1,3-Dichlorobenzene	2010/03/28		91	%	70 - 130
			1,4-Dichlorobenzene	2010/03/28		91	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2010/03/28		90	%	60 - 140
			1,1-Dichloroethane	2010/03/28		101	%	70 - 130
			1,2-Dichloroethane	2010/03/28		113	%	70 - 130
			1,1-Dichloroethylene	2010/03/28		109	%	70 - 130
			cis-1,2-Dichloroethylene	2010/03/28		101	%	70 - 130
			trans-1,2-Dichloroethylene	2010/03/28		101	%	70 - 130
			1,2-Dichloropropane	2010/03/28		104	%	70 - 130
			cis-1,3-Dichloropropene	2010/03/28		97	%	70 - 130
			trans-1,3-Dichloropropene	2010/03/28		94	%	70 - 130
			Ethylbenzene	2010/03/28		101	%	70 - 130
			Ethylene Dibromide	2010/03/28		104	%	70 - 130
			Hexane	2010/03/28		88	%	70 - 130
			Methylene Chloride(Dichloromethane)	2010/03/28		106	%	70 - 130
			Methyl Isobutyl Ketone	2010/03/28		112	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2010/03/28		107	%	60 - 140
			Methyl t-butyl ether (MTBE)	2010/03/28		107	%	70 - 130
			Styrene	2010/03/28		86	%	70 - 130
			1,1,1,2-Tetrachloroethane	2010/03/28		103	%	70 - 130
			1,1,2,2-Tetrachloroethane	2010/03/28		100	%	70 - 130
			Tetrachloroethylene	2010/03/28		93	%	70 - 130
			Toluene	2010/03/28		95	%	70 - 130
			1,1,1-Trichloroethane	2010/03/28		102	%	70 - 130
			1,1,2-Trichloroethane	2010/03/28		96	%	70 - 130
			Trichloroethylene	2010/03/28		100	%	70 - 130
			Vinyl Chloride	2010/03/28		101	%	70 - 130
			p+m-Xylene	2010/03/28		98	%	70 - 130
			o-Xylene	2010/03/28		98	%	70 - 130
			Chloroethane	2010/03/28		94	%	70 - 130
			Chloromethane	2010/03/28		94	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2010/03/28		105	%	70 - 130

AECOM Canada Ltd
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Quality Assurance Report (Continued)

Maxxam Job Number: MB035447

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2109887	MAL	Method Blank	4-Bromofluorobenzene	2010/03/28		98	%	70 - 130
			D4-1,2-Dichloroethane	2010/03/28		107	%	70 - 130
			D8-Toluene	2010/03/28		102	%	70 - 130
			Acetone (2-Propanone)	2010/03/28	<10		ug/L	
			Benzene	2010/03/28	<0.1		ug/L	
			Bromodichloromethane	2010/03/28	<0.1		ug/L	
			Bromoform	2010/03/28	<0.2		ug/L	
			Bromomethane	2010/03/28	<0.5		ug/L	
			Carbon Tetrachloride	2010/03/28	<0.1		ug/L	
			Chlorobenzene	2010/03/28	<0.1		ug/L	
			Chloroform	2010/03/28	<0.1		ug/L	
			Dibromochloromethane	2010/03/28	<0.2		ug/L	
			1,2-Dichlorobenzene	2010/03/28	<0.2		ug/L	
			1,3-Dichlorobenzene	2010/03/28	<0.2		ug/L	
			1,4-Dichlorobenzene	2010/03/28	<0.2		ug/L	
			Dichlorodifluoromethane (FREON 12)	2010/03/28	<0.5		ug/L	
			1,1-Dichloroethane	2010/03/28	<0.1		ug/L	
			1,2-Dichloroethane	2010/03/28	<0.2		ug/L	
			1,1-Dichloroethylene	2010/03/28	<0.1		ug/L	
			cis-1,2-Dichloroethylene	2010/03/28	<0.1		ug/L	
			trans-1,2-Dichloroethylene	2010/03/28	<0.1		ug/L	
			1,2-Dichloropropane	2010/03/28	<0.1		ug/L	
			cis-1,3-Dichloropropene	2010/03/28	<0.2		ug/L	
			trans-1,3-Dichloropropene	2010/03/28	<0.2		ug/L	
			Ethylbenzene	2010/03/28	<0.1		ug/L	
			Ethylene Dibromide	2010/03/28	<0.2		ug/L	
			Hexane	2010/03/28	<0.5		ug/L	
			Methylene Chloride(Dichloromethane)	2010/03/28	<0.5		ug/L	
			Methyl Isobutyl Ketone	2010/03/28	<5		ug/L	
			Methyl Ethyl Ketone (2-Butanone)	2010/03/28	<5		ug/L	
			Methyl t-butyl ether (MTBE)	2010/03/28	<0.2		ug/L	
			Styrene	2010/03/28	<0.2		ug/L	
			1,1,1,2-Tetrachloroethane	2010/03/28	<0.1		ug/L	
			1,1,2,2-Tetrachloroethane	2010/03/28	<0.2		ug/L	
			Tetrachloroethylene	2010/03/28	<0.1		ug/L	
			Toluene	2010/03/28	<0.2		ug/L	
			1,1,1-Trichloroethane	2010/03/28	<0.1		ug/L	
			1,1,2-Trichloroethane	2010/03/28	<0.2		ug/L	
			Trichloroethylene	2010/03/28	<0.1		ug/L	
			Vinyl Chloride	2010/03/28	<0.2		ug/L	
			p+m-Xylene	2010/03/28	<0.1		ug/L	
			o-Xylene	2010/03/28	<0.1		ug/L	
			Xylene (Total)	2010/03/28	<0.1		ug/L	
			Chloroethane	2010/03/28	<0.2		ug/L	
			Chloromethane	2010/03/28	<0.5		ug/L	
			Trichlorofluoromethane (FREON 11)	2010/03/28	<0.2		ug/L	
		RPD [FK5203-05]	Acetone (2-Propanone)	2010/03/29	NC		%	40
			Benzene	2010/03/29	NC		%	40
			Bromodichloromethane	2010/03/29	NC		%	40
			Bromoform	2010/03/29	NC		%	40
			Bromomethane	2010/03/29	NC		%	40
			Carbon Tetrachloride	2010/03/29	NC		%	40
			Chlorobenzene	2010/03/29	NC		%	40
			Chloroform	2010/03/29	NC		%	40
			Dibromochloromethane	2010/03/29	NC		%	40

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2109887	MAL	RPD [FK5203-05]	1,2-Dichlorobenzene	2010/03/29	NC		%	40
			1,3-Dichlorobenzene	2010/03/29	NC		%	40
			1,4-Dichlorobenzene	2010/03/29	NC		%	40
			Dichlorodifluoromethane (FREON 12)	2010/03/29	NC		%	40
			1,1-Dichloroethane	2010/03/29	NC		%	40
			1,2-Dichloroethane	2010/03/29	NC		%	40
			1,1-Dichloroethylene	2010/03/29	NC		%	40
			cis-1,2-Dichloroethylene	2010/03/29	3.1		%	40
			trans-1,2-Dichloroethylene	2010/03/29	NC		%	40
			1,2-Dichloropropane	2010/03/29	NC		%	40
			cis-1,3-Dichloropropene	2010/03/29	NC		%	40
			trans-1,3-Dichloropropene	2010/03/29	NC		%	40
			Ethylbenzene	2010/03/29	NC		%	40
			Ethylene Dibromide	2010/03/29	NC		%	40
			Hexane	2010/03/29	NC		%	40
			Methylene Chloride(Dichloromethane)	2010/03/29	NC		%	40
			Methyl Isobutyl Ketone	2010/03/29	NC		%	40
			Methyl Ethyl Ketone (2-Butanone)	2010/03/29	NC		%	40
			Methyl t-butyl ether (MTBE)	2010/03/29	NC		%	40
			Styrene	2010/03/29	NC		%	40
			1,1,1,2-Tetrachloroethane	2010/03/29	NC		%	40
			1,1,2,2-Tetrachloroethane	2010/03/29	NC		%	40
			Tetrachloroethylene	2010/03/29	NC		%	40
			Toluene	2010/03/29	NC		%	40
			1,1,1-Trichloroethane	2010/03/29	NC		%	40
			1,1,2-Trichloroethane	2010/03/29	NC		%	40
			Trichloroethylene	2010/03/29	3.6		%	40
			Vinyl Chloride	2010/03/29	NC		%	40
			p+m-Xylene	2010/03/29	NC		%	40
			o-Xylene	2010/03/29	NC		%	40
			Xylene (Total)	2010/03/29	NC		%	40
			Chloroethane	2010/03/29	NC		%	40
			Chloromethane	2010/03/29	NC		%	40
2110078	DRM	Matrix Spike	Orthophosphate (P)	2010/03/29		99	%	75 - 125
		Spiked Blank	Orthophosphate (P)	2010/03/29		98	%	80 - 120
		Method Blank	Orthophosphate (P)	2010/03/29	<0.01		mg/L	
		RPD	Orthophosphate (P)	2010/03/29	9.3		%	25
2110098	YZ	Matrix Spike	D10-Anthracene	2010/03/27		99	%	30 - 130
			D14-Terphenyl (FS)	2010/03/27		95	%	30 - 130
			D7-Quinoline	2010/03/27		96	%	30 - 130
			D8-Acenaphthylene	2010/03/27		92	%	30 - 130
			Acenaphthene	2010/03/27		91	%	30 - 130
			Acenaphthylene	2010/03/27		89	%	30 - 130
			Anthracene	2010/03/27		104	%	30 - 130
			Benzo(a)anthracene	2010/03/27		112	%	30 - 130
			Benzo(a)pyrene	2010/03/27		102	%	30 - 130
			Benzo(b/j)fluoranthene	2010/03/27		103	%	30 - 130
			Benzo(g,h,i)perylene	2010/03/27		130	%	30 - 130
			Benzo(k)fluoranthene	2010/03/27		101	%	30 - 130
			Chrysene	2010/03/27		116	%	30 - 130
			Dibenz(a,h)anthracene	2010/03/27		107	%	30 - 130
			Fluoranthene	2010/03/27		118	%	30 - 130
			Fluorene	2010/03/27		106	%	30 - 130
			Indeno(1,2,3-cd)pyrene	2010/03/27		110	%	30 - 130
			1-Methylnaphthalene	2010/03/27		71	%	30 - 130

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2110098	YZ	Matrix Spike	2-Methylnaphthalene	2010/03/27		64	%	30 - 130
			Naphthalene	2010/03/27		57	%	30 - 130
			Phenanthrene	2010/03/27		110	%	30 - 130
			Pyrene	2010/03/27		113	%	30 - 130
		Spiked Blank	D10-Anthracene	2010/03/26		93	%	30 - 130
			D14-Terphenyl (FS)	2010/03/26		90	%	30 - 130
			D7-Quinoline	2010/03/26		88	%	30 - 130
			D8-Acenaphthylene	2010/03/26		82	%	30 - 130
			Acenaphthene	2010/03/26		87	%	30 - 130
			Acenaphthylene	2010/03/26		86	%	30 - 130
			Anthracene	2010/03/26		97	%	30 - 130
			Benzo(a)anthracene	2010/03/26		100	%	30 - 130
			Benzo(a)pyrene	2010/03/26		92	%	30 - 130
			Benzo(b/j)fluoranthene	2010/03/26		93	%	30 - 130
			Benzo(g,h,i)perylene	2010/03/26		113	%	30 - 130
			Benzo(k)fluoranthene	2010/03/26		92	%	30 - 130
			Chrysene	2010/03/26		108	%	30 - 130
			Dibenz(a,h)anthracene	2010/03/26		93	%	30 - 130
			Fluoranthene	2010/03/26		110	%	30 - 130
			Fluorene	2010/03/26		96	%	30 - 130
			Indeno(1,2,3-cd)pyrene	2010/03/26		95	%	30 - 130
			1-Methylnaphthalene	2010/03/26		77	%	30 - 130
			2-Methylnaphthalene	2010/03/26		71	%	30 - 130
			Naphthalene	2010/03/26		65	%	30 - 130
			Phenanthrene	2010/03/26		101	%	30 - 130
			Pyrene	2010/03/26		106	%	30 - 130
		Method Blank	D10-Anthracene	2010/03/26		95	%	30 - 130
			D14-Terphenyl (FS)	2010/03/26		91	%	30 - 130
			D7-Quinoline	2010/03/26		90	%	30 - 130
			D8-Acenaphthylene	2010/03/26		83	%	30 - 130
			Acenaphthene	2010/03/26	<0.05		ug/L	
			Acenaphthylene	2010/03/26	<0.05		ug/L	
			Anthracene	2010/03/26	<0.05		ug/L	
			Benzo(a)anthracene	2010/03/26	<0.05		ug/L	
			Benzo(a)pyrene	2010/03/26	<0.01		ug/L	
			Benzo(b/j)fluoranthene	2010/03/26	<0.05		ug/L	
			Benzo(g,h,i)perylene	2010/03/26	<0.1		ug/L	
			Benzo(k)fluoranthene	2010/03/26	<0.05		ug/L	
			Chrysene	2010/03/26	<0.05		ug/L	
			Dibenz(a,h)anthracene	2010/03/26	<0.1		ug/L	
			Fluoranthene	2010/03/26	<0.05		ug/L	
			Fluorene	2010/03/26	<0.05		ug/L	
			Indeno(1,2,3-cd)pyrene	2010/03/26	<0.1		ug/L	
			1-Methylnaphthalene	2010/03/26	<0.05		ug/L	
			2-Methylnaphthalene	2010/03/26	<0.05		ug/L	
			Naphthalene	2010/03/26	<0.05		ug/L	
			Phenanthrene	2010/03/26	<0.03		ug/L	
			Pyrene	2010/03/26	<0.05		ug/L	
		RPD	Acenaphthene	2010/03/27	NC		%	40
			Acenaphthylene	2010/03/27	NC		%	40
			Anthracene	2010/03/27	NC		%	40
			Benzo(a)anthracene	2010/03/27	NC		%	40
			Benzo(a)pyrene	2010/03/27	NC (2)		%	40
			Benzo(b/j)fluoranthene	2010/03/27	NC		%	40
			Benzo(g,h,i)perylene	2010/03/27	NC		%	40

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2110098	YZ	RPD	Benzo(k)fluoranthene	2010/03/27	NC		%	40
			Chrysene	2010/03/27	NC		%	40
			Dibenz(a,h)anthracene	2010/03/27	NC		%	40
			Fluoranthene	2010/03/27	NC		%	40
			Fluorene	2010/03/27	NC		%	40
			Indeno(1,2,3-cd)pyrene	2010/03/27	NC		%	40
			1-Methylnaphthalene	2010/03/27	NC		%	40
			2-Methylnaphthalene	2010/03/27	NC		%	40
			Naphthalene	2010/03/27	NC		%	40
			Phenanthrene	2010/03/27	NC		%	40
			Pyrene	2010/03/27	NC		%	40
2110116	FD	Matrix Spike	Dissolved Chloride (Cl)	2010/03/26		NC	%	80 - 120
			Dissolved Bromide (Br-)	2010/03/26		116	%	80 - 120
			Dissolved Sulphate (SO4)	2010/03/26		106	%	80 - 120
		Spiked Blank	Dissolved Chloride (Cl)	2010/03/26		104	%	85 - 115
			Dissolved Bromide (Br-)	2010/03/26		107	%	85 - 115
			Dissolved Sulphate (SO4)	2010/03/26		103	%	85 - 115
		Method Blank	Dissolved Chloride (Cl)	2010/03/26	<1		mg/L	
			Dissolved Bromide (Br-)	2010/03/26	<1		mg/L	
			Dissolved Sulphate (SO4)	2010/03/26	<1		mg/L	
		RPD	Dissolved Chloride (Cl)	2010/03/26	0.3		%	25
			Dissolved Bromide (Br-)	2010/03/26	NC		%	25
			Dissolved Sulphate (SO4)	2010/03/26	0.5		%	25
2110118	C_N	Matrix Spike	Nitrite (N)	2010/03/26		103	%	80 - 120
			Nitrate (N)	2010/03/26		90	%	80 - 120
		Spiked Blank	Nitrite (N)	2010/03/26		104	%	85 - 115
			Nitrate (N)	2010/03/26		111	%	85 - 115
		Method Blank	Nitrite (N)	2010/03/26	<0.01		mg/L	
			Nitrate (N)	2010/03/26	<0.1		mg/L	
		RPD	Nitrite (N)	2010/03/26	NC		%	25
			Nitrate (N)	2010/03/26	3.5		%	25
2110168	YPA	QC Standard	Alkalinity (Total as CaCO3)	2010/03/26		97	%	85 - 115
		Method Blank	Alkalinity (Total as CaCO3)	2010/03/26	<1		mg/L	
		RPD [FK5206-02]	Alkalinity (Total as CaCO3)	2010/03/26	1.3		%	25
2110171	YPA	QC Standard	Conductivity	2010/03/26		102	%	85 - 115
		Method Blank	Conductivity	2010/03/26	<1		umho/cm	
		RPD [FK5206-02]	Conductivity	2010/03/26	1.2		%	25
2110172	YPA	Matrix Spike [FK5206-02]	Fluoride (F-)	2010/03/26		103	%	80 - 120
		Spiked Blank	Fluoride (F-)	2010/03/26		100	%	85 - 115
		Method Blank	Fluoride (F-)	2010/03/26	<0.1		mg/L	
		RPD [FK5206-02]	Fluoride (F-)	2010/03/26	NC		%	25
2110723	ABD	Matrix Spike [FK5201-04]	1,4-Difluorobenzene	2010/03/27		97	%	70 - 130
			4-Bromofluorobenzene	2010/03/27		99	%	70 - 130
			D10-Ethylbenzene	2010/03/27		108	%	70 - 130
			D4-1,2-Dichloroethane	2010/03/27		110	%	70 - 130
			Benzene	2010/03/27		108	%	70 - 130
			Toluene	2010/03/27		109	%	70 - 130
			Ethylbenzene	2010/03/27		118	%	70 - 130
			o-Xylene	2010/03/27		124	%	70 - 130
			p+m-Xylene	2010/03/27		115	%	70 - 130
			F1 (C6-C10)	2010/03/27		86	%	70 - 130
		Spiked Blank	1,4-Difluorobenzene	2010/03/27		99	%	70 - 130
			4-Bromofluorobenzene	2010/03/27		97	%	70 - 130

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2110723	ABD	Spiked Blank	D10-Ethylbenzene	2010/03/27		102	%	70 - 130
			D4-1,2-Dichloroethane	2010/03/27		106	%	70 - 130
			Benzene	2010/03/27		97	%	70 - 130
			Toluene	2010/03/27		99	%	70 - 130
			Ethylbenzene	2010/03/27		111	%	70 - 130
			o-Xylene	2010/03/27		115	%	70 - 130
			p+m-Xylene	2010/03/27		107	%	70 - 130
			F1 (C6-C10)	2010/03/27		117	%	70 - 130
		Method Blank	1,4-Difluorobenzene	2010/03/27		97	%	70 - 130
			4-Bromofluorobenzene	2010/03/27		97	%	70 - 130
			D10-Ethylbenzene	2010/03/27		93	%	70 - 130
			D4-1,2-Dichloroethane	2010/03/27		106	%	70 - 130
			Benzene	2010/03/27	<0.2		ug/L	
			Toluene	2010/03/27	<0.2		ug/L	
			Ethylbenzene	2010/03/27	<0.2		ug/L	
			o-Xylene	2010/03/27	<0.2		ug/L	
			p+m-Xylene	2010/03/27	<0.4		ug/L	
			Total Xylenes	2010/03/27	<0.4		ug/L	
			F1 (C6-C10)	2010/03/27	<100		ug/L	
			F1 (C6-C10) - BTEX	2010/03/27	<100		ug/L	
		RPD [FK5201-04]	Benzene	2010/03/27	NC		%	40
			Toluene	2010/03/27	NC		%	40
			Ethylbenzene	2010/03/27	NC		%	40
			o-Xylene	2010/03/27	NC		%	40
			p+m-Xylene	2010/03/27	NC		%	40
			Total Xylenes	2010/03/27	NC		%	40
			F1 (C6-C10)	2010/03/27	NC		%	40
			F1 (C6-C10) - BTEX	2010/03/27	NC		%	40
2110911	BWW	Matrix Spike [FK5208-04]	o-Terphenyl	2010/03/29		122	%	30 - 130
			F2 (C10-C16 Hydrocarbons)	2010/03/29		124	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2010/03/29		124	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2010/03/29		124	%	60 - 130
		Spiked Blank	o-Terphenyl	2010/03/29		117	%	30 - 130
			F2 (C10-C16 Hydrocarbons)	2010/03/29		110	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2010/03/29		110	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2010/03/29		110	%	60 - 130
		Method Blank	o-Terphenyl	2010/03/29		115	%	30 - 130
			F2 (C10-C16 Hydrocarbons)	2010/03/29	<100		ug/L	
			F3 (C16-C34 Hydrocarbons)	2010/03/29	<100		ug/L	
			F4 (C34-C50 Hydrocarbons)	2010/03/29	<100		ug/L	
		RPD	F2 (C10-C16 Hydrocarbons)	2010/03/29	NC		%	50
			F3 (C16-C34 Hydrocarbons)	2010/03/29	NC		%	50
			F4 (C34-C50 Hydrocarbons)	2010/03/29	NC		%	50
2111023	JBW	Matrix Spike [FK5208-03]	Dissolved Arsenic (As)	2010/03/29		104	%	80 - 120
			Dissolved Calcium (Ca)	2010/03/29		NC	%	80 - 120
			Dissolved Lead (Pb)	2010/03/29		100	%	80 - 120
			Dissolved Magnesium (Mg)	2010/03/29		NC	%	80 - 120
			Dissolved Potassium (K)	2010/03/29		108	%	80 - 120
			Dissolved Sodium (Na)	2010/03/29		NC	%	80 - 120
			Dissolved Zinc (Zn)	2010/03/29		NC	%	80 - 120
		Spiked Blank	Dissolved Arsenic (As)	2010/03/29		97	%	90 - 110
			Dissolved Calcium (Ca)	2010/03/29		100	%	90 - 110
			Dissolved Lead (Pb)	2010/03/29		95	%	90 - 110

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2111023	JBW	Spiked Blank	Dissolved Magnesium (Mg)	2010/03/29		103	%	90 - 110
			Dissolved Potassium (K)	2010/03/29		101	%	90 - 110
			Dissolved Sodium (Na)	2010/03/29		103	%	90 - 110
			Dissolved Zinc (Zn)	2010/03/29		99	%	90 - 110
		Method Blank	Dissolved Arsenic (As)	2010/03/29	<1		ug/L	
			Dissolved Calcium (Ca)	2010/03/29	<200		ug/L	
			Dissolved Lead (Pb)	2010/03/29	<0.5		ug/L	
			Dissolved Magnesium (Mg)	2010/03/29	<50		ug/L	
			Dissolved Potassium (K)	2010/03/29	<200		ug/L	
			Dissolved Sodium (Na)	2010/03/29	<100		ug/L	
			Dissolved Zinc (Zn)	2010/03/29	<5		ug/L	
		RPD [FK5208-03]	Dissolved Arsenic (As)	2010/03/29	3.0		%	25
			Dissolved Calcium (Ca)	2010/03/29	0.1		%	25
			Dissolved Lead (Pb)	2010/03/29	NC		%	25
			Dissolved Magnesium (Mg)	2010/03/29	0.3		%	25
			Dissolved Potassium (K)	2010/03/29	1.6		%	25
			Dissolved Sodium (Na)	2010/03/29	1.3		%	25
			Dissolved Zinc (Zn)	2010/03/29	0.2		%	25
2111498	DRM	Matrix Spike	Orthophosphate (P)	2010/03/31		95	%	75 - 125
		Spiked Blank	Orthophosphate (P)	2010/03/31		100	%	80 - 120
		Method Blank	Orthophosphate (P)	2010/03/31	0.02, RDL=0.01		mg/L	
		RPD	Orthophosphate (P)	2010/03/31	NC		%	25
2112056	FD	Matrix Spike [FK5206-02]	Dissolved Chloride (Cl)	2010/03/30		101	%	80 - 120
			Dissolved Bromide (Br-)	2010/03/30		100	%	80 - 120
			Dissolved Sulphate (SO4)	2010/03/30		98	%	80 - 120
		Spiked Blank	Dissolved Chloride (Cl)	2010/03/30		101	%	85 - 115
			Dissolved Bromide (Br-)	2010/03/30		105	%	85 - 115
			Dissolved Sulphate (SO4)	2010/03/30		100	%	85 - 115
		Method Blank	Dissolved Chloride (Cl)	2010/03/30	<1		mg/L	
			Dissolved Bromide (Br-)	2010/03/30	<1		mg/L	
			Dissolved Sulphate (SO4)	2010/03/30	<1		mg/L	
		RPD [FK5206-02]	Dissolved Chloride (Cl)	2010/03/30	0.4		%	25
			Dissolved Bromide (Br-)	2010/03/30	NC		%	25
			Dissolved Sulphate (SO4)	2010/03/30	0.2		%	25

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
(1) The recovery was below the lower control limit. This may represent a low bias in some results for this specific analyte.
(2) Duplicate results exceeded RPD acceptance criteria. This may be due to the observed differences in the contents of the containers supplied. The variability in the results for this analyte may be more pronounced.

Validation Signature Page

Maxxam Job #: B035447

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

YUAN ZHOU, gc\ms Technician

SUZANA POPOVIC, Supervisor, Hydrocarbons

MEDHAT RISKALLAH, Manager, Hydrocarbon Department

CRISTINA CARRIERE, Scientific Services

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

Your Project #: 6014910
Site Location: IMICO SITE-MARCH 2010 SAMPLING
Your C.O.C. #: 18539104, 185391-0

Attention: Albanie Tremblay
AECOM Canada Ltd
IMICO
ON
CANADA

Report Date: 2010/07/08
This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B035458
Received: 2010/03/24, 19:10

Sample Matrix: Water
Samples Received: 10

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Alkalinity	10	N/A	2010/03/26	CAM SOP-00448	SM 2320B
Anions	10	N/A	2010/03/26	CAM SOP-00435	SM 4110B
Conductivity	10	N/A	2010/03/26	CAM SOP-00448	SM 2510
Petroleum Hydro. CCME F1 & BTEX in Water	9	N/A	2010/03/29	CAM SOP-00315	CCME CWS
F1 + F2 Calculation	1	N/A	2010/03/31	CAM SOP-00316	CCME Hydrocarbons
F1 + F2 Calculation	8	N/A	2010/04/01	CAM SOP-00316	CCME Hydrocarbons
Petroleum Hydrocarbons F2-F4 in Water	9	2010/03/29	2010/03/29	CAM SOP-00316	CCME Hydrocarbons
F3 + F4 Calculation	1	N/A	2010/03/31	CAM SOP-00316	CCME Hydrocarbons
F3 + F4 Calculation	8	N/A	2010/04/01	CAM SOP-00316	CCME Hydrocarbons
Fluoride	10	2010/03/26	2010/03/26	CAM SOP-00448	APHA 4500FC
Dissolved Metals by ICPMS	9	N/A	2010/03/29	CAM SOP-00447	EPA 6020
Nitrate (NO3) and Nitrite (NO2) in Water (1)	10	N/A	2010/03/26	CAM SOP-00440	SM 4500 NO3I/NO2B
PAH Compounds in Water by GC/MS (SIM)	6	2010/03/25	2010/03/27	CAM SOP-00318	EPA 8270
pH	10	N/A	2010/03/26	CAM SOP-00448	SM 4500H
Orthophosphate	9	N/A	2010/03/29	CAM SOP-00461	SM 4500 P-F
Orthophosphate	1	N/A	2010/03/31	CAM SOP-00461	SM 4500 P-F
Volatile Organic Compounds in Water	6	N/A	2010/03/28	CAM SOP-00226	EPA 8260 modified
Volatile Organic Compounds in Water	3	N/A	2010/03/29	CAM SOP-00226	EPA 8260 modified
Volatile Organic Compounds in Water	1	N/A	2010/03/30	CAM SOP-00226	EPA 8260 modified

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

(1) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

../2

Your Project #: 6014910
Site Location: IMICO SITE-MARCH 2010 SAMPLING
Your C.O.C. #: 18539104, 185391-0

Attention: Albanie Tremblay
AECOM Canada Ltd
IMICO
ON
CANADA

Report Date: 2010/07/08
This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

Encryption Key

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

MARIJANE CRUZ, Project Manager
Email: Marijane.Cruz@maxxamanalytics.com
Phone# (905) 817-5756

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

Maxxam Job #: B035458
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

OREG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID			FK5259	FK5259	FK5260	FK5261	FK5262		
Sampling Date			2010/03/24	2010/03/24	2010/03/24	2010/03/24	2010/03/24		
COC Number			185391-0	185391-0	185391-0	185391-0	185391-0		
	Units	**Criteria**	**OW29 (S)**	**OW29 (S) Lab-Dup**	**DUP (OW)**	**OW29 (D)**	**OW9-I**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons									
F1 (C6-C10)	ug/L	**750**	<100	<100	<100	140	<100	100	2110676
F1 (C6-C10) - BTEX	ug/L	**750**	<100	<100	<100	140	<100	100	2110676
Gasoline	ug/L	**-**	<100	<100	<100	140	<100	100	2110676
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/L	**150**	<100		<100	<100	<100	100	2110918
F3 (C16-C34 Hydrocarbons)	ug/L	**500**	<100		<100	<100	<100	100	2110918
F4 (C34-C50 Hydrocarbons)	ug/L	**500**	<100		<100	<100	<100	100	2110918
Reached Baseline at C50	ug/L	**-**	Yes		Yes	Yes	Yes		2110918
Diesel (C10-C24)	ug/L	**-**	<100		<100	<100	<100	100	2110918
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	-	102	102	103	103	102		2110676
4-Bromofluorobenzene	%	-	96	96	98	96	97		2110676
D10-Ethylbenzene	%	-	86	77	87	83	76		2110676
D4-1,2-Dichloroethane	%	-	97	97	97	98	97		2110676
o-Terphenyl	%	-	99		100	96	99		2110918

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035458
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

OREG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID			FK5263	FK5265	FK5266	FK5267	FK5268		
Sampling Date			2010/03/24	2010/03/24	2010/03/24	2010/03/24	2010/03/24		
COC Number			185391-0	185391-0	185391-0	185391-0	185391-0		
	Units	**Criteria**	**OW13**	**OW10**	**OW6**	**OW28 (S)**	**OW28 (D)**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons									
F1 (C6-C10)	ug/L	**750**	<100	<100	<100	<100	<100	100	2110676
F1 (C6-C10) - BTEX	ug/L	**750**	<100	<100	<100	<100	<100	100	2110676
Gasoline	ug/L	**-**	<100	<100	<100	<100	<100	100	2110676
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/L	**150**	<100	<100	<100	<100	<100	100	2111139
F3 (C16-C34 Hydrocarbons)	ug/L	**500**	<100	<100	<100	<100	<100	100	2111139
F4 (C34-C50 Hydrocarbons)	ug/L	**500**	<100	<100	<100	<100	<100	100	2111139
Reached Baseline at C50	ug/L	**-**	Yes	Yes	Yes	Yes	Yes		2111139
Diesel (C10-C24)	ug/L	**-**	<100	<100	<100	<100	<100	100	2111139
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	-	101	100	102	103	102		2110676
4-Bromofluorobenzene	%	-	96	96	96	96	97		2110676
D10-Ethylbenzene	%	-	82	88	84	77	86		2110676
D4-1,2-Dichloroethane	%	-	99	97	96	97	98		2110676
o-Terphenyl	%	-	115	116	116	117	113		2111139

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035458
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

O'REG 153 POLYAROMATIC HYDROCARBONS (WATER)

Maxxam ID			FK5259	FK5260	FK5261	FK5266	FK5267		
Sampling Date			2010/03/24	2010/03/24	2010/03/24	2010/03/24	2010/03/24		
COC Number			185391-0	185391-0	185391-0	185391-0	185391-0		
	Units	**Criteria**	**OW29 (S)**	**DUP (OW)**	**OW29 (D)**	**OW6**	**OW28 (S)**	**RDL**	**QC Batch**
Polyaromatic Hydrocarbons									
Acenaphthene	ug/L	**4.1**	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2109313
Acenaphthylene	ug/L	**1**	<0.05	0.09	<0.05	<0.05	<0.05	0.05	2109313
Anthracene	ug/L	**2.4**	<0.05	0.05	<0.05	<0.05	<0.05	0.05	2109313
Benzo(a)anthracene	ug/L	**1.0**	0.07	0.10	<0.05	<0.05	<0.05	0.05	2109313
Benzo(a)pyrene	ug/L	**0.01**	**0.14**	**0.19**	<0.01	<0.01	**0.02**	0.01	2109313
Benzo(b/j)fluoranthene	ug/L	**-**	0.19	0.24	<0.05	<0.05	<0.05	0.05	2109313
Benzo(g,h,i)perylene	ug/L	**0.2**	0.2	0.2	<0.1	<0.1	<0.1	0.1	2109313
Benzo(k)fluoranthene	ug/L	**0.1**	0.07	**0.11**	<0.05	<0.05	<0.05	0.05	2109313
Chrysene	ug/L	**0.1**	<0.05	0.07	<0.05	<0.05	<0.05	0.05	2109313
Dibenz(a,h)anthracene	ug/L	**0.2**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2109313
Fluoranthene	ug/L	**0.41**	0.07	0.12	<0.05	<0.05	0.06	0.05	2109313
Fluorene	ug/L	**120**	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2109313
Indeno(1,2,3-cd)pyrene	ug/L	**0.2**	0.1	0.2	<0.1	<0.1	<0.1	0.1	2109313
1-Methylnaphthalene	ug/L	**3.2**	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2109313
2-Methylnaphthalene	ug/L	**3.2**	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2109313
Naphthalene	ug/L	**11**	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2109313
Phenanthrene	ug/L	**1**	<0.03	0.05	<0.03	<0.03	0.05	0.03	2109313
Pyrene	ug/L	**4.1**	0.07	0.12	<0.05	<0.05	<0.05	0.05	2109313
Surrogate Recovery (%)									
D10-Anthracene	%	-	100	107	96	103	106		2109313
D14-Terphenyl (FS)	%	-	101	114	96	104	109		2109313
D7-Quinoline	%	-	87	85	80	93	92		2109313
D8-Acenaphthylene	%	-	84	81	70	83	80		2109313

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035458
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

O'REG 153 POLYAROMATIC HYDROCARBONS (WATER)

Maxxam ID			FK5268		
Sampling Date			2010/03/24		
COC Number			185391-0		
	Units	**Criteria**	**OW28 (D)**	**RDL**	**QC Batch**
Polyaromatic Hydrocarbons					
Acenaphthene	ug/L	**4.1**	<0.05	0.05	2109313
Acenaphthylene	ug/L	**1**	<0.05	0.05	2109313
Anthracene	ug/L	**2.4**	<0.05	0.05	2109313
Benzo(a)anthracene	ug/L	**1.0**	<0.05	0.05	2109313
Benzo(a)pyrene	ug/L	**0.01**	<0.01	0.01	2109313
Benzo(b/j)fluoranthene	ug/L	**-**	<0.05	0.05	2109313
Benzo(g,h,i)perylene	ug/L	**0.2**	<0.1	0.1	2109313
Benzo(k)fluoranthene	ug/L	**0.1**	<0.05	0.05	2109313
Chrysene	ug/L	**0.1**	<0.05	0.05	2109313
Dibenz(a,h)anthracene	ug/L	**0.2**	<0.1	0.1	2109313
Fluoranthene	ug/L	**0.41**	<0.05	0.05	2109313
Fluorene	ug/L	**120**	<0.05	0.05	2109313
Indeno(1,2,3-cd)pyrene	ug/L	**0.2**	<0.1	0.1	2109313
1-Methylnaphthalene	ug/L	**3.2**	<0.05	0.05	2109313
2-Methylnaphthalene	ug/L	**3.2**	<0.05	0.05	2109313
Naphthalene	ug/L	**11**	<0.05	0.05	2109313
Phenanthrene	ug/L	**1**	<0.03	0.03	2109313
Pyrene	ug/L	**4.1**	<0.05	0.05	2109313
Surrogate Recovery (%)					
D10-Anthracene	%	-	109		2109313
D14-Terphenyl (FS)	%	-	111		2109313
D7-Quinoline	%	-	91		2109313
D8-Acenaphthylene	%	-	82		2109313

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035458
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

RESULTS OF ANALYSES OF WATER

Maxxam ID			FK5259		FK5260	FK5260		
Sampling Date			2010/03/24		2010/03/24	2010/03/24		
COC Number			185391-0		185391-0	185391-0		
	Units	**Criteria**	**OW29 (S)**	**QC Batch**	**DUP (OW)**	**DUP (OW) Lab-Dup**	**RDL**	**QC Batch**
Inorganics								
Conductivity	umho/cm	-	5040	2109864	4880	4890	1	2109864
Fluoride (F-)	mg/L	-	0.6	2109872	0.6	0.6	0.1	2109872
Orthophosphate (P)	mg/L	-	<0.01	2110078	<0.01		0.01	2110078
pH	pH	-	7.6	2109871	7.6	7.6		2109871
Alkalinity (Total as CaCO3)	mg/L	-	222	2109858	223	223	1	2109858
Nitrite (N)	mg/L	-	0.01	2109751	<0.01		0.01	2109731
Dissolved Chloride (Cl)	mg/L	**790**	**1490**	2110116	**1450**	**1460**	10	2110116
Nitrate (N)	mg/L	-	1.3	2109751	1.2		0.1	2109731
Dissolved Bromide (Br-)	mg/L	-	<1	2110116	<1	<1	1	2110116
Dissolved Sulphate (SO4)	mg/L	-	55	2110116	57	57	1	2110116

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035458
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

RESULTS OF ANALYSES OF WATER

Maxxam ID			FK5261		FK5262		FK5263		
Sampling Date			2010/03/24		2010/03/24		2010/03/24		
COC Number			185391-0		185391-0		185391-0		
	Units	**Criteria**	**OW29 (D)**	**QC Batch**	**OW9-I**	**QC Batch**	**OW13**	**RDL**	**QC Batch**
Inorganics									
Conductivity	umho/cm	-	1100	2109864	501	2109864	696	1	2109864
Fluoride (F-)	mg/L	-	0.8	2109872	1.9	2109872	2.3	0.1	2109872
Orthophosphate (P)	mg/L	-	<0.01	2110078	<0.01	2110078	<0.01	0.01	2110078
pH	pH	-	7.5	2109871	7.7	2109871	7.5		2109871
Alkalinity (Total as CaCO3)	mg/L	-	322	2109858	253	2109858	286	1	2109858
Nitrite (N)	mg/L	-	<0.01	2109733	<0.01	2109751	<0.01	0.01	2109733
Dissolved Chloride (Cl)	mg/L	**790**	130	2110116	2	2110116	16	1	2110116
Nitrate (N)	mg/L	-	0.1	2109733	<0.1	2109751	<0.1	0.1	2109733
Dissolved Bromide (Br-)	mg/L	-	<1	2110116	<1	2110116	<1	1	2110116
Dissolved Sulphate (SO4)	mg/L	-	61	2110116	13	2110116	60	1	2110116

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035458
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

RESULTS OF ANALYSES OF WATER

Maxxam ID			FK5264		FK5265	FK5266		FK5267		
Sampling Date			2010/03/24		2010/03/24	2010/03/24		2010/03/24		
COC Number			185391-0		185391-0	185391-0		185391-0		
	Units	**Criteria**	**OW22 (S)**	**RDL**	**OW10**	**OW6**	**QC Batch**	**OW28 (S)**	**RDL**	**QC Batch**
Inorganics										
Conductivity	umho/cm	-	1690	1	780	1450	2109864	464	1	2109864
Fluoride (F-)	mg/L	-	1.6	0.1	0.5	2.4	2109872	1.0	0.1	2109872
Orthophosphate (P)	mg/L	-	<0.01	0.01	<0.01	<0.01	2110078	<0.01	0.01	2111498
pH	pH	-	7.5		7.6	7.5	2109871	7.8		2109871
Alkalinity (Total as CaCO3)	mg/L	-	148	1	336	259	2109858	201	1	2109858
Nitrite (N)	mg/L	-	<0.01	0.01	<0.01	<0.01	2109733	<0.01	0.01	2109733
Dissolved Chloride (Cl)	mg/L	**790**	2	1	3	137	2110116	4	1	2110116
Nitrate (N)	mg/L	-	0.5	0.1	<0.1	<0.1	2109733	0.2	0.1	2109733
Dissolved Bromide (Br-)	mg/L	-	<1	1	<1	<1	2110116	<1	1	2110116
Dissolved Sulphate (SO4)	mg/L	-	899	5	96	355	2110116	41	1	2110116

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035458
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

RESULTS OF ANALYSES OF WATER

Maxxam ID			FK5268		
Sampling Date			2010/03/24		
COC Number			185391-0		
	Units	**Criteria**	**OW28 (D)**	**RDL**	**QC Batch**
Inorganics					
Conductivity	umho/cm	-	924	1	2109864
Fluoride (F-)	mg/L	-	0.8	0.1	2109872
Orthophosphate (P)	mg/L	-	<0.01	0.01	2110078
pH	pH	-	7.6		2109871
Alkalinity (Total as CaCO3)	mg/L	-	294	1	2109858
Nitrite (N)	mg/L	-	<0.01	0.01	2109733
Dissolved Chloride (Cl)	mg/L	**790**	74	1	2110116
Nitrate (N)	mg/L	-	<0.1	0.1	2109733
Dissolved Bromide (Br-)	mg/L	-	<1	1	2110116
Dissolved Sulphate (SO4)	mg/L	-	92	1	2110116

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035458
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID			FK5259	FK5260		FK5261	FK5262	FK5263		
Sampling Date			2010/03/24	2010/03/24		2010/03/24	2010/03/24	2010/03/24		
COC Number			185391-0	185391-0		185391-0	185391-0	185391-0		
	Units	**Criteria**	**OW29 (S)**	**DUP (OW)**	**RDL**	**OW29 (D)**	**OW9-I**	**OW13**	**RDL**	**QC Batch**
Metals										
Dissolved Arsenic (As)	ug/L	**25**	<5 (1)	<5 (1)	5	<1	<1	11	1	2111086
Dissolved Calcium (Ca)	ug/L	**-**	190000	180000	200	120000	81000	100000	200	2111086
Dissolved Lead (Pb)	ug/L	**10**	<0.5	<0.5	0.5	1.4	<0.5	<0.5	0.5	2111086
Dissolved Magnesium (Mg)	ug/L	**-**	37000	37000	50	26000	16000	22000	50	2111086
Dissolved Potassium (K)	ug/L	**-**	6100	6100	200	5900	1800	3900	200	2111086
Dissolved Sodium (Na)	ug/L	**490000**	**780000**	**800000**	100	67000	2800	12000	100	2111086
Dissolved Zinc (Zn)	ug/L	**1100**	720	680	5	1100	660	**1700**	5	2111086

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil
(1) Detection Limit was raised due to matrix interferences.

Maxxam ID			FK5264	FK5265	FK5267	FK5268		
Sampling Date			2010/03/24	2010/03/24	2010/03/24	2010/03/24		
COC Number			185391-0	185391-0	185391-0	185391-0		
	Units	**Criteria**	**OW22 (S)**	**OW10**	**OW28 (S)**	**OW28 (D)**	**RDL**	**QC Batch**
Metals								
Dissolved Arsenic (As)	ug/L	**25**	<1	<1	<1	2	1	2111086
Dissolved Calcium (Ca)	ug/L	**-**	370000	130000	72000	110000	200	2111086
Dissolved Lead (Pb)	ug/L	**10**	1.0	<0.5	<0.5	<0.5	0.5	2111086
Dissolved Magnesium (Mg)	ug/L	**-**	28000	22000	15000	31000	50	2111086
Dissolved Potassium (K)	ug/L	**-**	4100	3200	630	3400	200	2111086
Dissolved Sodium (Na)	ug/L	**490000**	1500	6100	4800	42000	100	2111086
Dissolved Zinc (Zn)	ug/L	**1100**	**2600**	8	54	23	5	2111086

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035458
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID			FK5259	FK5260		FK5261		FK5262		
Sampling Date			2010/03/24	2010/03/24		2010/03/24		2010/03/24		
COC Number			185391-0	185391-0		185391-0		185391-0		
	Units	**Criteria**	**OW29 (S)**	**DUP (OW)**	**RDL**	**OW29 (D)**	**RDL**	**OW9-I**	**RDL**	**QC Batch**
Volatile Organics										
Acetone (2-Propanone)	ug/L	**2700**	<50	<50	50	<500	500	<10	10	2109438
Benzene	ug/L	**5.0**	<0.5	<0.5	0.5	<5	5	<0.1	0.1	2109438
Bromodichloromethane	ug/L	**16.0**	<0.5	<0.5	0.5	<5	5	<0.1	0.1	2109438
Bromoform	ug/L	**25.0**	<1	<1	1	<10	10	<0.2	0.2	2109438
Bromomethane	ug/L	**0.89**	<3	<3	3	<30	30	<0.5	0.5	2109438
Carbon Tetrachloride	ug/L	**0.79**	<0.5	<0.5	0.5	<5	5	<0.1	0.1	2109438
Chlorobenzene	ug/L	**30**	<0.5	<0.5	0.5	<5	5	<0.1	0.1	2109438
Chloroform	ug/L	**2.4**	<0.5	<0.5	0.5	<5	5	<0.1	0.1	2109438
Dibromochloromethane	ug/L	**25.0**	<1	<1	1	<10	10	<0.2	0.2	2109438
1,2-Dichlorobenzene	ug/L	**3.0**	<1	<1	1	<10	10	<0.2	0.2	2109438
1,3-Dichlorobenzene	ug/L	**59**	<1	<1	1	<10	10	<0.2	0.2	2109438
1,4-Dichlorobenzene	ug/L	**1.0**	<1	<1	1	<10	10	<0.2	0.2	2109438
Dichlorodifluoromethane (FREON 12)	ug/L	**590**	<3	<3	3	<30	30	<0.5	0.5	2109438
1,1-Dichloroethane	ug/L	**5**	<0.5	<0.5	0.5	<5	5	<0.1	0.1	2109438
1,2-Dichloroethane	ug/L	**1.6**	<1	<1	1	<10	10	<0.2	0.2	2109438
1,1-Dichloroethylene	ug/L	**1.6**	<0.5	<0.5	0.5	<5	5	<0.1	0.1	2109438
cis-1,2-Dichloroethylene	ug/L	**1.6**	**7.5**	**8.1**	0.5	**52**	5	<0.1	0.1	2109438
trans-1,2-Dichloroethylene	ug/L	**1.6**	<0.5	<0.5	0.5	<5	5	<0.1	0.1	2109438
1,2-Dichloropropane	ug/L	**5.0**	<0.5	<0.5	0.5	<5	5	<0.1	0.1	2109438
cis-1,3-Dichloropropene	ug/L	**0.5**	<1	<1	1	<10	10	<0.2	0.2	2109438
trans-1,3-Dichloropropene	ug/L	**0.5**	<1	<1	1	<10	10	<0.2	0.2	2109438
Ethylbenzene	ug/L	**2.4**	<0.5	<0.5	0.5	<5	5	<0.1	0.1	2109438
Ethylene Dibromide	ug/L	**0.2**	<1	<1	1	<10	10	<0.2	0.2	2109438
Hexane	ug/L	**51**	<3	<3	3	<30	30	<0.5	0.5	2109438
Methylene Chloride(Dichloromethane)	ug/L	**50**	<3	<3	3	<30	30	<0.5	0.5	2109438
Methyl Isobutyl Ketone	ug/L	**640**	<30	<30	30	<300	300	<5	5	2109438
Methyl Ethyl Ketone (2-Butanone)	ug/L	**1800**	<30	<30	30	<300	300	<5	5	2109438
Methyl t-butyl ether (MTBE)	ug/L	**15**	<1	<1	1	<10	10	<0.2	0.2	2109438
Styrene	ug/L	**5.4**	<1	<1	1	<10	10	<0.2	0.2	2109438
1,1,1,2-Tetrachloroethane	ug/L	**1.1**	<0.5	<0.5	0.5	<5	5	<0.1	0.1	2109438

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035458
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID			FK5259	FK5260		FK5261		FK5262		
Sampling Date			2010/03/24	2010/03/24		2010/03/24		2010/03/24		
COC Number			185391-0	185391-0		185391-0		185391-0		
	Units	**Criteria**	**OW29 (S)**	**DUP (OW)**	**RDL**	**OW29 (D)**	**RDL**	**OW9-I**	**RDL**	**QC Batch**
1,1,2,2-Tetrachloroethane	ug/L	**1.0**	<1	<1	1	<10	10	<0.2	0.2	2109438
Tetrachloroethylene	ug/L	**1.6**	<0.5	<0.5	0.5	<5	5	<0.1	0.1	2109438
Toluene	ug/L	**24**	<1	<1	1	<10	10	<0.2	0.2	2109438
1,1,1-Trichloroethane	ug/L	**200**	<0.5	<0.5	0.5	<5	5	<0.1	0.1	2109438
1,1,2-Trichloroethane	ug/L	**4.7**	<1	<1	1	<10	10	<0.2	0.2	2109438
Trichloroethylene	ug/L	**1.6**	**140**	**130**	0.5	**1000**	5	<0.1	0.1	2109438
Vinyl Chloride	ug/L	**0.5**	<1	<1	1	<10	10	<0.2	0.2	2109438
p+m-Xylene	ug/L	**-**	<0.5	<0.5	0.5	<5	5	<0.1	0.1	2109438
o-Xylene	ug/L	**-**	<0.5	<0.5	0.5	<5	5	<0.1	0.1	2109438
Xylene (Total)	ug/L	**300**	<0.5	<0.5	0.5	<5	5	<0.1	0.1	2109438
Chloroethane	ug/L	**-**	<1	<1	1	<10	10	<0.2	0.2	2109438
Chloromethane	ug/L	**-**	<3	<3	3	<30	30	<0.5	0.5	2109438
Trichlorofluoromethane (FREON 11)	ug/L	**150**	<1	<1	1	<10	10	<0.2	0.2	2109438
Surrogate Recovery (%)										
4-Bromofluorobenzene	%	-	96	95		96		98		2109438
D4-1,2-Dichloroethane	%	-	120	81		93		84		2109438
D8-Toluene	%	-	104	100		102		95		2109438

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035458
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID			FK5263	FK5264	FK5265	FK5266	FK5267		
Sampling Date			2010/03/24	2010/03/24	2010/03/24	2010/03/24	2010/03/24		
COC Number			185391-0	185391-0	185391-0	185391-0	185391-0		
	Units	**Criteria**	**OW13**	**OW22 (S)**	**OW10**	**OW6**	**OW28 (S)**	**RDL**	**QC Batch**
Volatile Organics									
Acetone (2-Propanone)	ug/L	**2700**	<10	<10	<10	<10	<10	10	2109438
Benzene	ug/L	**5.0**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2109438
Bromodichloromethane	ug/L	**16.0**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2109438
Bromoform	ug/L	**25.0**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2109438
Bromomethane	ug/L	**0.89**	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	2109438
Carbon Tetrachloride	ug/L	**0.79**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2109438
Chlorobenzene	ug/L	**30**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2109438
Chloroform	ug/L	**2.4**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2109438
Dibromochloromethane	ug/L	**25.0**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2109438
1,2-Dichlorobenzene	ug/L	**3.0**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2109438
1,3-Dichlorobenzene	ug/L	**59**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2109438
1,4-Dichlorobenzene	ug/L	**1.0**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2109438
Dichlorodifluoromethane (FREON 12)	ug/L	**590**	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	2109438
1,1-Dichloroethane	ug/L	**5**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2109438
1,2-Dichloroethane	ug/L	**1.6**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2109438
1,1-Dichloroethylene	ug/L	**1.6**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2109438
cis-1,2-Dichloroethylene	ug/L	**1.6**	0.9	<0.1	<0.1	**2.1**	0.1	0.1	2109438
trans-1,2-Dichloroethylene	ug/L	**1.6**	<0.1	<0.1	<0.1	0.2	<0.1	0.1	2109438
1,2-Dichloropropane	ug/L	**5.0**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2109438
cis-1,3-Dichloropropene	ug/L	**0.5**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2109438
trans-1,3-Dichloropropene	ug/L	**0.5**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2109438
Ethylbenzene	ug/L	**2.4**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2109438
Ethylene Dibromide	ug/L	**0.2**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2109438
Hexane	ug/L	**51**	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	2109438
Methylene Chloride(Dichloromethane)	ug/L	**50**	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	2109438
Methyl Isobutyl Ketone	ug/L	**640**	<5	<5	<5	<5	<5	5	2109438
Methyl Ethyl Ketone (2-Butanone)	ug/L	**1800**	<5	<5	<5	<5	<5	5	2109438
Methyl t-butyl ether (MTBE)	ug/L	**15**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2109438
Styrene	ug/L	**5.4**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2109438
1,1,1,2-Tetrachloroethane	ug/L	**1.1**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2109438

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035458
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID			FK5263	FK5264	FK5265	FK5266	FK5267		
Sampling Date			2010/03/24	2010/03/24	2010/03/24	2010/03/24	2010/03/24		
COC Number			185391-0	185391-0	185391-0	185391-0	185391-0		
	Units	**Criteria**	**OW13**	**OW22 (S)**	**OW10**	**OW6**	**OW28 (S)**	**RDL**	**QC Batch**
1,1,2,2-Tetrachloroethane	ug/L	**1.0**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2109438
Tetrachloroethylene	ug/L	**1.6**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2109438
Toluene	ug/L	**24**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2109438
1,1,1-Trichloroethane	ug/L	**200**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2109438
1,1,2-Trichloroethane	ug/L	**4.7**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2109438
Trichloroethylene	ug/L	**1.6**	1.1	<0.1	<0.1	**2.1**	**7.3**	0.1	2109438
Vinyl Chloride	ug/L	**0.5**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2109438
p+m-Xylene	ug/L	**-**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2109438
o-Xylene	ug/L	**-**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2109438
Xylene (Total)	ug/L	**300**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2109438
Chloroethane	ug/L	**-**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2109438
Chloromethane	ug/L	**-**	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	2109438
Trichlorofluoromethane (FREON 11)	ug/L	**150**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2109438
Surrogate Recovery (%)									
4-Bromofluorobenzene	%	-	99	97	99	99	94		2109438
D4-1,2-Dichloroethane	%	-	122	70	121	120	71		2109438
D8-Toluene	%	-	103	99	102	102	99		2109438

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035458
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID			FK5268		
Sampling Date			2010/03/24		
COC Number			185391-0		
	Units	**Criteria**	**OW28 (D)**	**RDL**	**QC Batch**
Volatile Organics					
Acetone (2-Propanone)	ug/L	**2700**	<50	50	2109438
Benzene	ug/L	**5.0**	<0.5	0.5	2109438
Bromodichloromethane	ug/L	**16.0**	<0.5	0.5	2109438
Bromoform	ug/L	**25.0**	<1	1	2109438
Bromomethane	ug/L	**0.89**	<3	3	2109438
Carbon Tetrachloride	ug/L	**0.79**	<0.5	0.5	2109438
Chlorobenzene	ug/L	**30**	<0.5	0.5	2109438
Chloroform	ug/L	**2.4**	<0.5	0.5	2109438
Dibromochloromethane	ug/L	**25.0**	<1	1	2109438
1,2-Dichlorobenzene	ug/L	**3.0**	<1	1	2109438
1,3-Dichlorobenzene	ug/L	**59**	<1	1	2109438
1,4-Dichlorobenzene	ug/L	**1.0**	<1	1	2109438
Dichlorodifluoromethane (FREON 12)	ug/L	**590**	<3	3	2109438
1,1-Dichloroethane	ug/L	**5**	<0.5	0.5	2109438
1,2-Dichloroethane	ug/L	**1.6**	<1	1	2109438
1,1-Dichloroethylene	ug/L	**1.6**	1.2	0.5	2109438
cis-1,2-Dichloroethylene	ug/L	**1.6**	**120**	0.5	2109438
trans-1,2-Dichloroethylene	ug/L	**1.6**	1.2	0.5	2109438
1,2-Dichloropropane	ug/L	**5.0**	<0.5	0.5	2109438
cis-1,3-Dichloropropene	ug/L	**0.5**	<1	1	2109438
trans-1,3-Dichloropropene	ug/L	**0.5**	<1	1	2109438
Ethylbenzene	ug/L	**2.4**	<0.5	0.5	2109438
Ethylene Dibromide	ug/L	**0.2**	<1	1	2109438
Hexane	ug/L	**51**	<3	3	2109438
Methylene Chloride(Dichloromethane)	ug/L	**50**	<3	3	2109438
Methyl Isobutyl Ketone	ug/L	**640**	<30	30	2109438
Methyl Ethyl Ketone (2-Butanone)	ug/L	**1800**	<30	30	2109438
Methyl t-butyl ether (MTBE)	ug/L	**15**	<1	1	2109438
Styrene	ug/L	**5.4**	<1	1	2109438
1,1,1,2-Tetrachloroethane	ug/L	**1.1**	<0.5	0.5	2109438

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035458
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID			FK5268		
Sampling Date			2010/03/24		
COC Number			185391-0		
	Units	**Criteria**	**OW28 (D)**	**RDL**	**QC Batch**
1,1,2,2-Tetrachloroethane	ug/L	**1.0**	<1	1	2109438
Tetrachloroethylene	ug/L	**1.6**	<0.5	0.5	2109438
Toluene	ug/L	**24**	<1	1	2109438
1,1,1-Trichloroethane	ug/L	**200**	<0.5	0.5	2109438
1,1,2-Trichloroethane	ug/L	**4.7**	<1	1	2109438
Trichloroethylene	ug/L	**1.6**	**13**	0.5	2109438
Vinyl Chloride	ug/L	**0.5**	**10**	1	2109438
p+m-Xylene	ug/L	**-**	<0.5	0.5	2109438
o-Xylene	ug/L	**-**	<0.5	0.5	2109438
Xylene (Total)	ug/L	**300**	<0.5	0.5	2109438
Chloroethane	ug/L	**-**	<1	1	2109438
Chloromethane	ug/L	**-**	<3	3	2109438
Trichlorofluoromethane (FREON 11)	ug/L	**150**	<1	1	2109438
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	-	95		2109438
D4-1,2-Dichloroethane	%	-	87		2109438
D8-Toluene	%	-	101		2109438

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B035458
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		FK5259	FK5260	FK5261	FK5262	FK5263	FK5265		
Sampling Date		2010/03/24	2010/03/24	2010/03/24	2010/03/24	2010/03/24	2010/03/24		
COC Number		185391-0	185391-0	185391-0	185391-0	185391-0	185391-0		
	Units	**OW29 (S)**	**DUP (OW)**	**OW29 (D)**	**OW9-I**	**OW13**	**OW10**	**RDL**	**QC Batch**
F2-F4 Hydrocarbons									
F1 + F2	ug/L	<100	<100	140	<100	<100	<100	100	2112786
F3 + F4	ug/L	<100	<100	<100	<100	<100	<100	100	2112787

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		FK5266	FK5267	FK5268		
Sampling Date		2010/03/24	2010/03/24	2010/03/24		
COC Number		185391-0	185391-0	185391-0		
	Units	**OW6**	**OW28 (S)**	**OW28 (D)**	**RDL**	**QC Batch**
F2-F4 Hydrocarbons						
F1 + F2	ug/L	<100	<100	<100	100	2112786
F3 + F4	ug/L	<100	<100	<100	100	2112787

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Package 1	4.0°C
Package 2	6.0°C
Package 3	3.3°C

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

GENERAL COMMENTS

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

Revised report: Reg 153 Criteria added as per client request.

Sample FK5261-01: F1/BTEX Analysis: The BTEX results used for the F1-BTEX calculation were obtained from Headspace-GC analysis.

Results relate only to the items tested.

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Quality Assurance Report

Maxxam Job Number: MB035458

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2109313	DTI	Matrix Spike	D10-Anthracene	2010/03/26		97	%	30 - 130
			D14-Terphenyl (FS)	2010/03/26		105	%	30 - 130
			D7-Quinoline	2010/03/26		84	%	30 - 130
			D8-Acenaphthylene	2010/03/26		79	%	30 - 130
			Acenaphthene	2010/03/26		90	%	30 - 130
			Acenaphthylene	2010/03/26		80	%	30 - 130
			Anthracene	2010/03/26		97	%	30 - 130
			Benzo(a)anthracene	2010/03/26		117	%	30 - 130
			Benzo(a)pyrene	2010/03/26		98	%	30 - 130
			Benzo(b/j)fluoranthene	2010/03/26		102	%	30 - 130
			Benzo(g,h,i)perylene	2010/03/26		116	%	30 - 130
			Benzo(k)fluoranthene	2010/03/26		115	%	30 - 130
			Chrysene	2010/03/26		112	%	30 - 130
			Dibenz(a,h)anthracene	2010/03/26		120	%	30 - 130
			Fluoranthene	2010/03/26		112	%	30 - 130
			Fluorene	2010/03/26		97	%	30 - 130
			Indeno(1,2,3-cd)pyrene	2010/03/26		118	%	30 - 130
			1-Methylnaphthalene	2010/03/26		81	%	30 - 130
			2-Methylnaphthalene	2010/03/26		73	%	30 - 130
			Naphthalene	2010/03/26		67	%	30 - 130
			Phenanthrene	2010/03/26		105	%	30 - 130
			Pyrene	2010/03/26		110	%	30 - 130
		Spiked Blank	D10-Anthracene	2010/03/26		101	%	30 - 130
			D14-Terphenyl (FS)	2010/03/26		109	%	30 - 130
			D7-Quinoline	2010/03/26		89	%	30 - 130
			D8-Acenaphthylene	2010/03/26		86	%	30 - 130
			Acenaphthene	2010/03/26		93	%	30 - 130
			Acenaphthylene	2010/03/26		85	%	30 - 130
			Anthracene	2010/03/26		101	%	30 - 130
			Benzo(a)anthracene	2010/03/26		120	%	30 - 130
			Benzo(a)pyrene	2010/03/26		102	%	30 - 130
			Benzo(b/j)fluoranthene	2010/03/26		103	%	30 - 130
			Benzo(g,h,i)perylene	2010/03/26		109	%	30 - 130
			Benzo(k)fluoranthene	2010/03/26		123	%	30 - 130
			Chrysene	2010/03/26		114	%	30 - 130
			Dibenz(a,h)anthracene	2010/03/26		115	%	30 - 130
			Fluoranthene	2010/03/26		116	%	30 - 130
			Fluorene	2010/03/26		104	%	30 - 130
			Indeno(1,2,3-cd)pyrene	2010/03/26		115	%	30 - 130
			1-Methylnaphthalene	2010/03/26		81	%	30 - 130
			2-Methylnaphthalene	2010/03/26		72	%	30 - 130
			Naphthalene	2010/03/26		67	%	30 - 130
			Phenanthrene	2010/03/26		109	%	30 - 130
			Pyrene	2010/03/26		115	%	30 - 130
		Method Blank	D10-Anthracene	2010/03/26		98	%	30 - 130
			D14-Terphenyl (FS)	2010/03/26		104	%	30 - 130
			D7-Quinoline	2010/03/26		82	%	30 - 130
			D8-Acenaphthylene	2010/03/26		84	%	30 - 130
			Acenaphthene	2010/03/26	<0.05		ug/L	
			Acenaphthylene	2010/03/26	<0.05		ug/L	
			Anthracene	2010/03/26	<0.05		ug/L	
			Benzo(a)anthracene	2010/03/26	<0.05		ug/L	
			Benzo(a)pyrene	2010/03/26	<0.01		ug/L	
			Benzo(b/j)fluoranthene	2010/03/26	<0.05		ug/L	
			Benzo(g,h,i)perylene	2010/03/26	<0.1		ug/L	

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QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2109313	DTI	Method Blank	Benzo(k)fluoranthene	2010/03/26	<0.05		ug/L	
			Chrysene	2010/03/26	<0.05		ug/L	
			Dibenz(a,h)anthracene	2010/03/26	<0.1		ug/L	
			Fluoranthene	2010/03/26	<0.05		ug/L	
			Fluorene	2010/03/26	<0.05		ug/L	
			Indeno(1,2,3-cd)pyrene	2010/03/26	<0.1		ug/L	
			1-Methylnaphthalene	2010/03/26	<0.05		ug/L	
			2-Methylnaphthalene	2010/03/26	<0.05		ug/L	
			Naphthalene	2010/03/26	<0.05		ug/L	
			Phenanthrene	2010/03/26	<0.03		ug/L	
			Pyrene	2010/03/26	<0.05		ug/L	
		RPD	Acenaphthene	2010/03/26	NC		%	40
			Acenaphthylene	2010/03/26	NC		%	40
			Anthracene	2010/03/26	NC		%	40
			Benzo(a)anthracene	2010/03/26	NC		%	40
			Benzo(a)pyrene	2010/03/26	NC		%	40
			Benzo(b/j)fluoranthene	2010/03/26	NC		%	40
			Benzo(g,h,i)perylene	2010/03/26	NC		%	40
			Benzo(k)fluoranthene	2010/03/26	NC		%	40
			Chrysene	2010/03/26	NC		%	40
			Dibenz(a,h)anthracene	2010/03/26	NC		%	40
			Fluoranthene	2010/03/26	NC		%	40
			Fluorene	2010/03/26	NC		%	40
			Indeno(1,2,3-cd)pyrene	2010/03/26	NC		%	40
			1-Methylnaphthalene	2010/03/26	NC		%	40
			2-Methylnaphthalene	2010/03/26	NC		%	40
			Naphthalene	2010/03/26	NC		%	40
			Phenanthrene	2010/03/26	NC		%	40
			Pyrene	2010/03/26	NC		%	40
2109438	MAL	Matrix Spike						
		[FK5264-03]	4-Bromofluorobenzene	2010/03/28		109	%	70 - 130
			D4-1,2-Dichloroethane	2010/03/28		110	%	70 - 130
			D8-Toluene	2010/03/28		98	%	70 - 130
			Acetone (2-Propanone)	2010/03/28		108	%	60 - 140
			Benzene	2010/03/28		100	%	70 - 130
			Bromodichloromethane	2010/03/28		108	%	70 - 130
			Bromoform	2010/03/28		92	%	70 - 130
			Bromomethane	2010/03/28		128	%	60 - 140
			Carbon Tetrachloride	2010/03/28		123	%	70 - 130
			Chlorobenzene	2010/03/28		96	%	70 - 130
			Chloroform	2010/03/28		108	%	70 - 130
			Dibromochloromethane	2010/03/28		106	%	70 - 130
			1,2-Dichlorobenzene	2010/03/28		91	%	70 - 130
			1,3-Dichlorobenzene	2010/03/28		92	%	70 - 130
			1,4-Dichlorobenzene	2010/03/28		94	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2010/03/28		100	%	60 - 140
			1,1-Dichloroethane	2010/03/28		102	%	70 - 130
			1,2-Dichloroethane	2010/03/28		116	%	70 - 130
			1,1-Dichloroethylene	2010/03/28		114	%	70 - 130
			cis-1,2-Dichloroethylene	2010/03/28		101	%	70 - 130
			trans-1,2-Dichloroethylene	2010/03/28		102	%	70 - 130
			1,2-Dichloropropane	2010/03/28		101	%	70 - 130
			cis-1,3-Dichloropropene	2010/03/28		104	%	70 - 130
			trans-1,3-Dichloropropene	2010/03/28		103	%	70 - 130
			Ethylbenzene	2010/03/28		103	%	70 - 130

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QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2109438	MAL	Matrix Spike						
		[FK5264-03]	Ethylene Dibromide	2010/03/28		102	%	70 - 130
			Hexane	2010/03/28		101	%	70 - 130
			Methylene Chloride(Dichloromethane)	2010/03/28		102	%	70 - 130
			Methyl Isobutyl Ketone	2010/03/28		109	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2010/03/28		102	%	60 - 140
			Methyl t-butyl ether (MTBE)	2010/03/28		104	%	70 - 130
			Styrene	2010/03/28		88	%	70 - 130
			1,1,1,2-Tetrachloroethane	2010/03/28		103	%	70 - 130
			1,1,2,2-Tetrachloroethane	2010/03/28		97	%	70 - 130
			Tetrachloroethylene	2010/03/28		97	%	70 - 130
			Toluene	2010/03/28		94	%	70 - 130
			1,1,1-Trichloroethane	2010/03/28		112	%	70 - 130
			1,1,2-Trichloroethane	2010/03/28		93	%	70 - 130
			Trichloroethylene	2010/03/28		100	%	70 - 130
			Vinyl Chloride	2010/03/28		105	%	70 - 130
			p+m-Xylene	2010/03/28		103	%	70 - 130
			o-Xylene	2010/03/28		100	%	70 - 130
			Chloroethane	2010/03/28		93	%	70 - 130
			Chloromethane	2010/03/28		100	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2010/03/28		113	%	70 - 130
		Spiked Blank	4-Bromofluorobenzene	2010/03/28		109	%	70 - 130
			D4-1,2-Dichloroethane	2010/03/28		113	%	70 - 130
			D8-Toluene	2010/03/28		97	%	70 - 130
			Acetone (2-Propanone)	2010/03/28		129	%	60 - 140
			Benzene	2010/03/28		102	%	70 - 130
			Bromodichloromethane	2010/03/28		111	%	70 - 130
			Bromoform	2010/03/28		95	%	70 - 130
			Bromomethane	2010/03/28		131	%	60 - 140
			Carbon Tetrachloride	2010/03/28		125	%	70 - 130
			Chlorobenzene	2010/03/28		97	%	70 - 130
			Chloroform	2010/03/28		113	%	70 - 130
			Dibromochloromethane	2010/03/28		108	%	70 - 130
			1,2-Dichlorobenzene	2010/03/28		96	%	70 - 130
			1,3-Dichlorobenzene	2010/03/28		97	%	70 - 130
			1,4-Dichlorobenzene	2010/03/28		98	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2010/03/28		104	%	60 - 140
			1,1-Dichloroethane	2010/03/28		103	%	70 - 130
			1,2-Dichloroethane	2010/03/28		121	%	70 - 130
			1,1-Dichloroethylene	2010/03/28		116	%	70 - 130
			cis-1,2-Dichloroethylene	2010/03/28		102	%	70 - 130
			trans-1,2-Dichloroethylene	2010/03/28		103	%	70 - 130
			1,2-Dichloropropane	2010/03/28		103	%	70 - 130
			cis-1,3-Dichloropropene	2010/03/28		106	%	70 - 130
			trans-1,3-Dichloropropene	2010/03/28		104	%	70 - 130
			Ethylbenzene	2010/03/28		103	%	70 - 130
			Ethylene Dibromide	2010/03/28		102	%	70 - 130
			Hexane	2010/03/28		106	%	70 - 130
			Methylene Chloride(Dichloromethane)	2010/03/28		107	%	70 - 130
			Methyl Isobutyl Ketone	2010/03/28		111	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2010/03/28		109	%	60 - 140
			Methyl t-butyl ether (MTBE)	2010/03/28		107	%	70 - 130
			Styrene	2010/03/28		88	%	70 - 130
			1,1,1,2-Tetrachloroethane	2010/03/28		106	%	70 - 130
			1,1,2,2-Tetrachloroethane	2010/03/28		98	%	70 - 130

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QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2109438	MAL	Spiked Blank	Tetrachloroethylene	2010/03/28		98	%	70 - 130
			Toluene	2010/03/28		95	%	70 - 130
			1,1,1-Trichloroethane	2010/03/28		114	%	70 - 130
			1,1,2-Trichloroethane	2010/03/28		92	%	70 - 130
			Trichloroethylene	2010/03/28		103	%	70 - 130
			Vinyl Chloride	2010/03/28		107	%	70 - 130
			p+m-Xylene	2010/03/28		103	%	70 - 130
			o-Xylene	2010/03/28		102	%	70 - 130
			Chloroethane	2010/03/28		93	%	70 - 130
			Chloromethane	2010/03/28		101	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2010/03/28		116	%	70 - 130
		Method Blank	4-Bromofluorobenzene	2010/03/28		95	%	70 - 130
			D4-1,2-Dichloroethane	2010/03/28		113	%	70 - 130
			D8-Toluene	2010/03/28		100	%	70 - 130
			Acetone (2-Propanone)	2010/03/28	<10		ug/L	
			Benzene	2010/03/28	<0.1		ug/L	
			Bromodichloromethane	2010/03/28	<0.1		ug/L	
			Bromoform	2010/03/28	<0.2		ug/L	
			Bromomethane	2010/03/28	<0.5		ug/L	
			Carbon Tetrachloride	2010/03/28	<0.1		ug/L	
			Chlorobenzene	2010/03/28	<0.1		ug/L	
			Chloroform	2010/03/28	<0.1		ug/L	
			Dibromochloromethane	2010/03/28	<0.2		ug/L	
			1,2-Dichlorobenzene	2010/03/28	<0.2		ug/L	
			1,3-Dichlorobenzene	2010/03/28	<0.2		ug/L	
			1,4-Dichlorobenzene	2010/03/28	<0.2		ug/L	
			Dichlorodifluoromethane (FREON 12)	2010/03/28	<0.5		ug/L	
			1,1-Dichloroethane	2010/03/28	<0.1		ug/L	
			1,2-Dichloroethane	2010/03/28	<0.2		ug/L	
			1,1-Dichloroethylene	2010/03/28	<0.1		ug/L	
			cis-1,2-Dichloroethylene	2010/03/28	<0.1		ug/L	
			trans-1,2-Dichloroethylene	2010/03/28	<0.1		ug/L	
			1,2-Dichloropropane	2010/03/28	<0.1		ug/L	
			cis-1,3-Dichloropropene	2010/03/28	<0.2		ug/L	
			trans-1,3-Dichloropropene	2010/03/28	<0.2		ug/L	
			Ethylbenzene	2010/03/28	<0.1		ug/L	
			Ethylene Dibromide	2010/03/28	<0.2		ug/L	
			Hexane	2010/03/28	<0.5		ug/L	
			Methylene Chloride(Dichloromethane)	2010/03/28	<0.5		ug/L	
			Methyl Isobutyl Ketone	2010/03/28	<5		ug/L	
			Methyl Ethyl Ketone (2-Butanone)	2010/03/28	<5		ug/L	
			Methyl t-butyl ether (MTBE)	2010/03/28	<0.2		ug/L	
			Styrene	2010/03/28	<0.2		ug/L	
			1,1,1,2-Tetrachloroethane	2010/03/28	<0.1		ug/L	
			1,1,2,2-Tetrachloroethane	2010/03/28	<0.2		ug/L	
			Tetrachloroethylene	2010/03/28	<0.1		ug/L	
			Toluene	2010/03/28	<0.2		ug/L	
			1,1,1-Trichloroethane	2010/03/28	<0.1		ug/L	
			1,1,2-Trichloroethane	2010/03/28	<0.2		ug/L	
			Trichloroethylene	2010/03/28	<0.1		ug/L	
			Vinyl Chloride	2010/03/28	<0.2		ug/L	
			p+m-Xylene	2010/03/28	<0.1		ug/L	
			o-Xylene	2010/03/28	<0.1		ug/L	
			Xylene (Total)	2010/03/28	<0.1		ug/L	
			Chloroethane	2010/03/28	<0.2		ug/L	

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QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2109438	MAL	Method Blank	Chloromethane	2010/03/28	<0.5		ug/L	
			Trichlorofluoromethane (FREON 11)	2010/03/28	<0.2		ug/L	
		RPD	Acetone (2-Propanone)	2010/03/30	NC		%	40
			Benzene	2010/03/30	NC		%	40
			Bromodichloromethane	2010/03/30	NC		%	40
			Bromoform	2010/03/30	NC		%	40
			Bromomethane	2010/03/30	NC		%	40
			Carbon Tetrachloride	2010/03/30	NC		%	40
			Chlorobenzene	2010/03/30	NC		%	40
			Chloroform	2010/03/30	NC		%	40
			Dibromochloromethane	2010/03/30	NC		%	40
			1,2-Dichlorobenzene	2010/03/30	NC		%	40
			1,3-Dichlorobenzene	2010/03/30	NC		%	40
			1,4-Dichlorobenzene	2010/03/30	NC		%	40
			1,1-Dichloroethane	2010/03/30	NC		%	40
			1,2-Dichloroethane	2010/03/30	NC		%	40
			1,1-Dichloroethylene	2010/03/30	NC		%	40
			cis-1,2-Dichloroethylene	2010/03/30	NC		%	40
			trans-1,2-Dichloroethylene	2010/03/30	NC		%	40
			1,2-Dichloropropane	2010/03/30	NC		%	40
			cis-1,3-Dichloropropene	2010/03/30	NC		%	40
			trans-1,3-Dichloropropene	2010/03/30	NC		%	40
			Ethylbenzene	2010/03/30	NC		%	40
			Ethylene Dibromide	2010/03/30	NC		%	40
			Methylene Chloride(Dichloromethane)	2010/03/30	NC		%	40
			Methyl Isobutyl Ketone	2010/03/30	NC		%	40
			Methyl Ethyl Ketone (2-Butanone)	2010/03/30	NC		%	40
			Methyl t-butyl ether (MTBE)	2010/03/30	NC		%	40
			Styrene	2010/03/30	NC		%	40
			1,1,1,2-Tetrachloroethane	2010/03/30	NC		%	40
			1,1,2,2-Tetrachloroethane	2010/03/30	NC		%	40
			Tetrachloroethylene	2010/03/30	NC		%	40
			Toluene	2010/03/30	NC		%	40
			1,1,1-Trichloroethane	2010/03/30	NC		%	40
			1,1,2-Trichloroethane	2010/03/30	NC		%	40
			Trichloroethylene	2010/03/30	NC		%	40
			Vinyl Chloride	2010/03/30	NC		%	40
			p+m-Xylene	2010/03/30	NC		%	40
			o-Xylene	2010/03/30	NC		%	40
			Xylene (Total)	2010/03/30	NC		%	40
2109731	C_N	Matrix Spike	Nitrite (N)	2010/03/26		103	%	80 - 120
			Nitrate (N)	2010/03/26		NC	%	80 - 120
		Spiked Blank	Nitrite (N)	2010/03/26		104	%	85 - 115
			Nitrate (N)	2010/03/26		106	%	85 - 115
		Method Blank	Nitrite (N)	2010/03/26	<0.01		mg/L	
			Nitrate (N)	2010/03/26	<0.1		mg/L	
		RPD	Nitrate (N)	2010/03/26	1		%	25
2109733	C_N	Matrix Spike	Nitrite (N)	2010/03/26		104	%	80 - 120
			Nitrate (N)	2010/03/26		NC	%	80 - 120
		Spiked Blank	Nitrite (N)	2010/03/26		104	%	85 - 115
			Nitrate (N)	2010/03/26		110	%	85 - 115
		Method Blank	Nitrite (N)	2010/03/26	<0.01		mg/L	
			Nitrate (N)	2010/03/26	<0.1		mg/L	
		RPD	Nitrite (N)	2010/03/26	NC		%	25
			Nitrate (N)	2010/03/26	2.6		%	25

AECOM Canada Ltd
Attention: Albanie Tremblay
Client Project #: 6014910
P.O. #:
Site Location: IMICO SITE-MARCH 2010 SAMPLING

Quality Assurance Report (Continued)

Maxxam Job Number: MB035458

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2109751	C_N	Matrix Spike	Nitrite (N)	2010/03/26		107	%	80 - 120
			Nitrate (N)	2010/03/26		112	%	80 - 120
		Spiked Blank	Nitrite (N)	2010/03/26		105	%	85 - 115
			Nitrate (N)	2010/03/26		110	%	85 - 115
		Method Blank	Nitrite (N)	2010/03/26	<0.01		mg/L	
			Nitrate (N)	2010/03/26	<0.1		mg/L	
		RPD	Nitrite (N)	2010/03/26	NC		%	25
			Nitrate (N)	2010/03/26	NC		%	25
2109858	YPA	QC Standard	Alkalinity (Total as CaCO3)	2010/03/26		96	%	85 - 115
		Method Blank	Alkalinity (Total as CaCO3)	2010/03/26	<1		mg/L	
		RPD [FK5260-04]	Alkalinity (Total as CaCO3)	2010/03/26	0.04		%	25
2109864	YPA	QC Standard	Conductivity	2010/03/26		101	%	85 - 115
		Method Blank	Conductivity	2010/03/26	<1		umho/cm	
		RPD [FK5260-04]	Conductivity	2010/03/26	0.2		%	25
2109872	YPA	Matrix Spike						
		[FK5260-04]	Fluoride (F-)	2010/03/26		98	%	80 - 120
		Spiked Blank	Fluoride (F-)	2010/03/26		100	%	85 - 115
		Method Blank	Fluoride (F-)	2010/03/26	<0.1		mg/L	
		RPD [FK5260-04]	Fluoride (F-)	2010/03/26	1.4		%	25
2110078	DRM	Matrix Spike	Orthophosphate (P)	2010/03/29		99	%	75 - 125
		Spiked Blank	Orthophosphate (P)	2010/03/29		98	%	80 - 120
		Method Blank	Orthophosphate (P)	2010/03/29	<0.01		mg/L	
		RPD	Orthophosphate (P)	2010/03/29	9.3		%	25
2110116	FD	Matrix Spike						
		[FK5260-04]	Dissolved Chloride (Cl)	2010/03/26		NC	%	80 - 120
			Dissolved Bromide (Br-)	2010/03/26		116	%	80 - 120
			Dissolved Sulphate (SO4)	2010/03/26		106	%	80 - 120
		Spiked Blank	Dissolved Chloride (Cl)	2010/03/26		104	%	85 - 115
			Dissolved Bromide (Br-)	2010/03/26		107	%	85 - 115
			Dissolved Sulphate (SO4)	2010/03/26		103	%	85 - 115
		Method Blank	Dissolved Chloride (Cl)	2010/03/26	<1		mg/L	
			Dissolved Bromide (Br-)	2010/03/26	<1		mg/L	
			Dissolved Sulphate (SO4)	2010/03/26	<1		mg/L	
		RPD [FK5260-04]	Dissolved Chloride (Cl)	2010/03/26	0.3		%	25
			Dissolved Bromide (Br-)	2010/03/26	NC		%	25
			Dissolved Sulphate (SO4)	2010/03/26	0.5		%	25
2110676	SPV	Matrix Spike						
		[FK5259-01]	1,4-Difluorobenzene	2010/03/29		102	%	70 - 130
			4-Bromofluorobenzene	2010/03/29		97	%	70 - 130
			D10-Ethylbenzene	2010/03/29		85	%	70 - 130
			D4-1,2-Dichloroethane	2010/03/29		97	%	70 - 130
			F1 (C6-C10)	2010/03/29		80	%	70 - 130
			Gasoline	2010/03/29		80	%	70 - 130
		Spiked Blank	1,4-Difluorobenzene	2010/03/29		101	%	70 - 130
			4-Bromofluorobenzene	2010/03/29		97	%	70 - 130
			D10-Ethylbenzene	2010/03/29		86	%	70 - 130
			D4-1,2-Dichloroethane	2010/03/29		96	%	70 - 130
			F1 (C6-C10)	2010/03/29		84	%	70 - 130
			Gasoline	2010/03/29		84	%	70 - 130
		Method Blank	1,4-Difluorobenzene	2010/03/29		102	%	70 - 130
			4-Bromofluorobenzene	2010/03/29		96	%	70 - 130
			D10-Ethylbenzene	2010/03/29		84	%	70 - 130
			D4-1,2-Dichloroethane	2010/03/29		97	%	70 - 130
			F1 (C6-C10)	2010/03/29	<100		ug/L	
			F1 (C6-C10) - BTEX	2010/03/29	<100		ug/L	

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Client Project #: 6014910
P.O. #:
Site Location: IMICO SITE-MARCH 2010 SAMPLING

Quality Assurance Report (Continued)

Maxxam Job Number: MB035458

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2110676	SPV	Method Blank	Gasoline	2010/03/29	<100		ug/L	
		RPD [FK5259-01]	F1 (C6-C10)	2010/03/29	NC		%	40
			F1 (C6-C10) - BTEX	2010/03/29	NC		%	40
			Gasoline	2010/03/29	NC		%	40
2110918	YY	Matrix Spike	o-Terphenyl	2010/03/29		110	%	30 - 130
			F2 (C10-C16 Hydrocarbons)	2010/03/29		86	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2010/03/29		86	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2010/03/29		86	%	60 - 130
			Diesel (C10-C24)	2010/03/29		86	%	30 - 130
		Spiked Blank	o-Terphenyl	2010/03/29		109	%	30 - 130
			F2 (C10-C16 Hydrocarbons)	2010/03/29		87	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2010/03/29		87	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2010/03/29		87	%	60 - 130
			Diesel (C10-C24)	2010/03/29		87	%	30 - 130
		Method Blank	o-Terphenyl	2010/03/29		109	%	30 - 130
			F2 (C10-C16 Hydrocarbons)	2010/03/29	<100		ug/L	
			F3 (C16-C34 Hydrocarbons)	2010/03/29	<100		ug/L	
			F4 (C34-C50 Hydrocarbons)	2010/03/29	<100		ug/L	
			Diesel (C10-C24)	2010/03/29	<100		ug/L	
		RPD	F2 (C10-C16 Hydrocarbons)	2010/03/29	NC		%	50
			F3 (C16-C34 Hydrocarbons)	2010/03/29	NC		%	50
			F4 (C34-C50 Hydrocarbons)	2010/03/29	NC		%	50
2111086	JBW	Matrix Spike	Dissolved Arsenic (As)	2010/03/29		111	%	80 - 120
			Dissolved Calcium (Ca)	2010/03/29		NC	%	80 - 120
			Dissolved Lead (Pb)	2010/03/29		104	%	80 - 120
			Dissolved Magnesium (Mg)	2010/03/29		NC	%	80 - 120
			Dissolved Potassium (K)	2010/03/29		NC	%	80 - 120
			Dissolved Sodium (Na)	2010/03/29		NC	%	80 - 120
			Dissolved Zinc (Zn)	2010/03/29		109	%	80 - 120
		Spiked Blank	Dissolved Arsenic (As)	2010/03/29		99	%	90 - 110
			Dissolved Calcium (Ca)	2010/03/29		105	%	90 - 110
			Dissolved Lead (Pb)	2010/03/29		96	%	90 - 110
			Dissolved Magnesium (Mg)	2010/03/29		105	%	90 - 110
			Dissolved Potassium (K)	2010/03/29		103	%	90 - 110
			Dissolved Sodium (Na)	2010/03/29		105	%	90 - 110
			Dissolved Zinc (Zn)	2010/03/29		100	%	90 - 110
		Method Blank	Dissolved Arsenic (As)	2010/03/29	<1		ug/L	
			Dissolved Calcium (Ca)	2010/03/29	<200		ug/L	
			Dissolved Lead (Pb)	2010/03/29	<0.5		ug/L	
			Dissolved Magnesium (Mg)	2010/03/29	<50		ug/L	
			Dissolved Potassium (K)	2010/03/29	<200		ug/L	
			Dissolved Sodium (Na)	2010/03/29	<100		ug/L	
			Dissolved Zinc (Zn)	2010/03/29	<5		ug/L	
		RPD	Dissolved Arsenic (As)	2010/03/29	1.6		%	25
			Dissolved Calcium (Ca)	2010/03/29	0.4		%	25
			Dissolved Lead (Pb)	2010/03/29	NC		%	25
			Dissolved Magnesium (Mg)	2010/03/29	2.2		%	25
			Dissolved Potassium (K)	2010/03/29	0.5		%	25
			Dissolved Sodium (Na)	2010/03/29	0.7		%	25
			Dissolved Zinc (Zn)	2010/03/29	1.4		%	25
2111139	BWW	Matrix Spike	o-Terphenyl	2010/03/29		117	%	30 - 130
			F2 (C10-C16 Hydrocarbons)	2010/03/29		114	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2010/03/29		114	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2010/03/29		114	%	60 - 130
			Diesel (C10-C24)	2010/03/29		114	%	30 - 130

AECOM Canada Ltd
Attention: Albanie Tremblay
Client Project #: 6014910
P.O. #:
Site Location: IMICO SITE-MARCH 2010 SAMPLING

Quality Assurance Report (Continued)

Maxxam Job Number: MB035458

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2111139	BWW	Spiked Blank	o-Terphenyl	2010/03/29		115	%	30 - 130
			F2 (C10-C16 Hydrocarbons)	2010/03/29		102	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2010/03/29		102	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2010/03/29		102	%	60 - 130
			Diesel (C10-C24)	2010/03/29		102	%	30 - 130
		Method Blank	o-Terphenyl	2010/03/29		116	%	30 - 130
			F2 (C10-C16 Hydrocarbons)	2010/03/29	<100		ug/L	
			F3 (C16-C34 Hydrocarbons)	2010/03/29	<100		ug/L	
			F4 (C34-C50 Hydrocarbons)	2010/03/29	<100		ug/L	
			Diesel (C10-C24)	2010/03/29	<100		ug/L	
		RPD	F2 (C10-C16 Hydrocarbons)	2010/03/29	NC		%	50
			F3 (C16-C34 Hydrocarbons)	2010/03/29	NC		%	50
			F4 (C34-C50 Hydrocarbons)	2010/03/29	NC		%	50
2111498	DRM	Matrix Spike	Orthophosphate (P)	2010/03/31		95	%	75 - 125
		Spiked Blank	Orthophosphate (P)	2010/03/31		100	%	80 - 120
		Method Blank	Orthophosphate (P)	2010/03/31	0.02, RDL=0.01		mg/L	
		RPD	Orthophosphate (P)	2010/03/31	NC		%	25

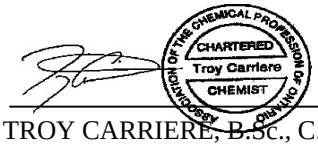
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B035458

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

SUZANA POPOVIC, Supervisor, Hydrocarbons



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

FLOYD MAYEDE, Senior Analyst

MEDHAT RISKALLAH, Manager, Hydrocarbon Department

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Your Project #: 6014910
Site Location: IMICO SITE-MARCH 2010 SAMPLING
Your C.O.C. #: 18539101, 185391-0

Attention: Albanie Tremblay
AECOM Canada Ltd
IMICO
ON
CANADA

Report Date: 2010/07/08
This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B036036
Received: 2010/03/25, 16:37

Sample Matrix: Water
Samples Received: 10

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Alkalinity	9	N/A	2010/03/29	CAM SOP-00448	SM 2320B
Anions	1	N/A	2010/03/30	CAM SOP-00435	SM 4110B
Anions	8	N/A	2010/03/31	CAM SOP-00435	SM 4110B
Conductivity	9	N/A	2010/03/29	CAM SOP-00448	SM 2510
Petroleum Hydro. CCME F1 & BTEX in Water	7	N/A	2010/03/30	CAM SOP-00315	CCME CWS
Petroleum Hydro. CCME F1 & BTEX in Water	1	N/A	2010/03/31	CAM SOP-00315	CCME CWS
F1 + F2 Calculation	2	N/A	2010/03/31	CAM SOP-00316	CCME Hydrocarbons
F1 + F2 Calculation	6	N/A	2010/04/01	CAM SOP-00316	CCME Hydrocarbons
Petroleum Hydrocarbons F2-F4 in Water	8	2010/03/30	2010/03/31	CAM SOP-00316	CCME Hydrocarbons
F3 + F4 Calculation	8	N/A	2010/03/31	CAM SOP-00316	CCME Hydrocarbons
Fluoride	9	2010/03/29	2010/03/29	CAM SOP-00448	APHA 4500FC
Dissolved Metals by ICPMS	10	N/A	2010/03/29	CAM SOP-00447	EPA 6020
Nitrate (NO3) and Nitrite (NO2) in Water (1)	9	N/A	2010/03/29	CAM SOP-00440	SM 4500 NO3I/NO2B
PAH Compounds in Water by GC/MS (SIM)	2	2010/03/27	2010/03/29	CAM SOP-00318	EPA 8270
PAH Compounds in Water by GC/MS (SIM)	4	2010/03/27	2010/03/30	CAM SOP-00318	EPA 8270
Polychlorinated Biphenyl in Water	3	2010/03/27	2010/03/30	CAM SOP-00309	SW846 8082
pH	9	N/A	2010/03/29	CAM SOP-00448	SM 4500H
Orthophosphate	9	N/A	2010/03/31	CAM SOP-00461	SM 4500 P-F
Volatile Organic Compounds in Water	8	N/A	2010/03/29	CAM SOP-00226	EPA 8260 modified

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

(1) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

../2

Your Project #: 6014910
Site Location: IMICO SITE-MARCH 2010 SAMPLING
Your C.O.C. #: 18539101, 185391-0

Attention: Albanie Tremblay
AECOM Canada Ltd
IMICO
ON
CANADA

Report Date: 2010/07/08
This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

Encryption Key

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

MARIJANE CRUZ, Project Manager
Email: Marijane.Cruz@maxxamanalytics.com
Phone# (905) 817-5756

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Maxxam Job #: B036036
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

OREG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID			FK7626	FK7627		FK7628	FK7628		
Sampling Date			2010/03/24	2010/03/24		2010/03/24	2010/03/24		
COC Number			185391-0	185391-0		185391-0	185391-0		
	Units	**Criteria**	**DUP(OW1)**	**OW25**	**QC Batch**	**OW26D**	**OW26D Lab-Dup**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons									
F1 (C6-C10)	ug/L	**750**	<100	<100	2112435	<100	<100	100	2112105
F1 (C6-C10) - BTEX	ug/L	**750**	<100	<100	2112435	<100	<100	100	2112105
Gasoline	ug/L	**-**	<100	<100	2112435	<100	<100	100	2112105
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/L	**150**	<100	**190**	2113033	<100		100	2113033
F3 (C16-C34 Hydrocarbons)	ug/L	**500**	<100	**3300**	2113033	<100		100	2113033
F4 (C34-C50 Hydrocarbons)	ug/L	**500**	<100	<100	2113033	<100		100	2113033
Reached Baseline at C50	ug/L	**-**	Yes	Yes	2113033	Yes			2113033
Diesel (C10-C24)	ug/L	**-**	<100	220	2113033	<100		100	2113033
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	-	108	107	2112435	83	89		2112105
4-Bromofluorobenzene	%	-	89	90	2112435	85	94		2112105
D10-Ethylbenzene	%	-	84	81	2112435	105	106		2112105
D4-1,2-Dichloroethane	%	-	104	104	2112435	82	87		2112105
o-Terphenyl	%	-	115	115	2113033	116			2113033

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B036036
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

OREG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID			FK7630	FK7631	FK7632	FK7634	FK7636		
Sampling Date			2010/03/24	2010/03/24	2010/03/24	2010/03/24	2010/03/24		
COC Number			185391-0	185391-0	185391-0	185391-0	185391-0		
	Units	**Criteria**	**OW26S**	**OW11-1**	**OW9-II**	**OW22-D**	**OW2**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons									
F1 (C6-C10)	ug/L	**750**	<100	<100	<100	<100	<100	100	2112105
F1 (C6-C10) - BTEX	ug/L	**750**	<100	<100	<100	<100	<100	100	2112105
Gasoline	ug/L	**-**	<100	<100	<100	<100	<100	100	2112105
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/L	**150**	<100	<100	<100	<100	<100	100	2113033
F3 (C16-C34 Hydrocarbons)	ug/L	**500**	<100	<100	<100	<100	<100	100	2113033
F4 (C34-C50 Hydrocarbons)	ug/L	**500**	<100	<100	<100	<100	<100	100	2113033
Reached Baseline at C50	ug/L	**-**	Yes	Yes	Yes	Yes	Yes		2113033
Diesel (C10-C24)	ug/L	**-**	<100	<100	<100	<100	<100	100	2113033
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	-	87	82	91	84	89		2112105
4-Bromofluorobenzene	%	-	85	85	92	96	94		2112105
D10-Ethylbenzene	%	-	102	101	102	105	99		2112105
D4-1,2-Dichloroethane	%	-	84	81	89	81	87		2112105
o-Terphenyl	%	-	116	114	115	115	115		2113033

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B036036
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

O'REG 153 POLYAROMATIC HYDROCARBONS (WATER)

Maxxam ID			FK7626		FK7627	FK7627		FK7628		
Sampling Date			2010/03/24		2010/03/24	2010/03/24		2010/03/24		
COC Number			185391-0		185391-0	185391-0		185391-0		
	Units	**Criteria**	**DUP(OW1)**	**RDL**	**OW25**	**OW25 Lab-Dup**	**RDL**	**OW26D**	**RDL**	**QC Batch**
Polyaromatic Hydrocarbons										
Acenaphthene	ug/L	**4.1**	<0.05	0.05	<0.05	<0.05	0.05	<0.05	0.05	2110679
Acenaphthylene	ug/L	**1**	<0.05	0.05	<0.05	<0.05	0.05	<0.05	0.05	2110679
Anthracene	ug/L	**2.4**	<0.05	0.05	<0.05	<0.05	0.05	<0.05	0.05	2110679
Benzo(a)anthracene	ug/L	**1.0**	<0.05	0.05	<0.05	<0.05	0.05	<0.05	0.05	2110679
Benzo(a)pyrene	ug/L	**0.01**	<0.01	0.01	<0.01	<0.01	0.01	<0.01	0.01	2110679
Benzo(b/j)fluoranthene	ug/L	**-**	<0.05	0.05	<3 (1)	<3 (1)	3	<0.05	0.05	2110679
Benzo(g,h,i)perylene	ug/L	**0.2**	<0.1	0.1	<0.1	<0.1	0.1	<0.1	0.1	2110679
Benzo(k)fluoranthene	ug/L	**0.1**	<0.05	0.05	<0.05	<0.05	0.05	<0.05	0.05	2110679
Chrysene	ug/L	**0.1**	<0.05	0.05	<0.05	<0.05	0.05	<0.05	0.05	2110679
Dibenz(a,h)anthracene	ug/L	**0.2**	<0.1	0.1	<0.1	<0.1	0.1	<0.1	0.1	2110679
Fluoranthene	ug/L	**0.41**	<0.05	0.05	<0.05	<0.05	0.05	<0.05	0.05	2110679
Fluorene	ug/L	**120**	<0.05	0.05	<0.05	<0.05	0.05	<0.05	0.05	2110679
Indeno(1,2,3-cd)pyrene	ug/L	**0.2**	<0.1	0.1	<0.1	<0.1	0.1	<0.1	0.1	2110679
1-Methylnaphthalene	ug/L	**3.2**	<0.05	0.05	<0.05	<0.05	0.05	<0.05	0.05	2110679
2-Methylnaphthalene	ug/L	**3.2**	<0.05	0.05	<0.05	<0.05	0.05	<0.05	0.05	2110679
Naphthalene	ug/L	**11**	<0.05	0.05	<0.05	<0.05	0.05	<0.05	0.05	2110679
Phenanthrene	ug/L	**1**	<0.03	0.03	<0.03	<0.03	0.03	<0.03	0.03	2110679
Pyrene	ug/L	**4.1**	<0.05	0.05	<0.05	<0.05	0.05	<0.05	0.05	2110679
Surrogate Recovery (%)										
D10-Anthracene	%	-	97		99	100		100		2110679
D14-Terphenyl (FS)	%	-	84		85	87		88		2110679
D7-Quinoline	%	-	101		99	101		102		2110679
D8-Acenaphthylene	%	-	88		86	88		89		2110679

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil
(1) Detection Limit was raised due to matrix interferences.

Maxxam Job #: B036036
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

O'REG 153 POLYAROMATIC HYDROCARBONS (WATER)

Maxxam ID			FK7630	FK7634	FK7636		
Sampling Date			2010/03/24	2010/03/24	2010/03/24		
COC Number			185391-0	185391-0	185391-0		
	Units	**Criteria**	**OW26S**	**OW22-D**	**OW2**	**RDL**	**QC Batch**
Polyaromatic Hydrocarbons							
Acenaphthene	ug/L	**4.1**	<0.05	0.13	<0.05	0.05	2110679
Acenaphthylene	ug/L	**1**	<0.05	<0.05	<0.05	0.05	2110679
Anthracene	ug/L	**2.4**	<0.05	<0.05	<0.05	0.05	2110679
Benzo(a)anthracene	ug/L	**1.0**	<0.05	<0.05	<0.05	0.05	2110679
Benzo(a)pyrene	ug/L	**0.01**	<0.01	<0.01	<0.01	0.01	2110679
Benzo(b/j)fluoranthene	ug/L	**-**	<0.05	<0.05	<0.05	0.05	2110679
Benzo(g,h,i)perylene	ug/L	**0.2**	<0.1	<0.1	<0.1	0.1	2110679
Benzo(k)fluoranthene	ug/L	**0.1**	<0.05	<0.05	<0.05	0.05	2110679
Chrysene	ug/L	**0.1**	<0.05	<0.05	<0.05	0.05	2110679
Dibenz(a,h)anthracene	ug/L	**0.2**	<0.1	<0.1	<0.1	0.1	2110679
Fluoranthene	ug/L	**0.41**	<0.05	<0.05	<0.05	0.05	2110679
Fluorene	ug/L	**120**	<0.05	0.09	<0.05	0.05	2110679
Indeno(1,2,3-cd)pyrene	ug/L	**0.2**	<0.1	<0.1	<0.1	0.1	2110679
1-Methylnaphthalene	ug/L	**3.2**	<0.05	0.07	<0.05	0.05	2110679
2-Methylnaphthalene	ug/L	**3.2**	<0.05	<0.05	<0.05	0.05	2110679
Naphthalene	ug/L	**11**	<0.05	0.06	<0.05	0.05	2110679
Phenanthrene	ug/L	**1**	<0.03	<0.03	<0.03	0.03	2110679
Pyrene	ug/L	**4.1**	<0.05	<0.05	<0.05	0.05	2110679
Surrogate Recovery (%)							
D10-Anthracene	%	-	96	96	95		2110679
D14-Terphenyl (FS)	%	-	86	87	85		2110679
D7-Quinoline	%	-	101	85	99		2110679
D8-Acenaphthylene	%	-	85	81	84		2110679

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

AECOM Canada Ltd
Maxxam Job #: B036036
Client Project #: 6014910
Report Date: 2010/07/08
Project name: IMICO SITE-MARCH 2010 SAMPLING

RESULTS OF ANALYSES OF WATER

Maxxam ID			FK7626	FK7627		FK7628		FK7630		
Sampling Date			2010/03/24	2010/03/24		2010/03/24		2010/03/24		
COC Number			185391-0	185391-0		185391-0		185391-0		
	Units	**Criteria**	**DUP(OW1)**	**OW25**	**QC Batch**	**OW26D**	**QC Batch**	**OW26S**	**RDL**	**QC Batch**
Inorganics										
Conductivity	umho/cm	-	1050	635	2111647	1050	2111647	765	1	2111647
Fluoride (F-)	mg/L	-	0.4	0.2	2111665	0.4	2111665	0.2	0.1	2111665
Orthophosphate (P)	mg/L	-	<0.01	0.03	2111498	<0.01	2112719	<0.01	0.01	2111498
pH	pH	-	7.4	7.6	2111654	7.5	2111654	7.5		2111654
Alkalinity (Total as CaCO3)	mg/L	-	310	321	2111646	310	2111646	305	1	2111646
Nitrite (N)	mg/L	-	<0.01	<0.01	2111474	<0.01	2111330	<0.01	0.01	2111474
Dissolved Chloride (Cl)	mg/L	**790**	121	2	2111494	121	2112056	45	1	2111494
Nitrate (N)	mg/L	-	<0.1	0.1	2111474	<0.1	2111330	0.6	0.1	2111474
Dissolved Bromide (Br-)	mg/L	-	<1	<1	2111494	<1	2112056	<1	1	2111494
Dissolved Sulphate (SO4)	mg/L	-	59	27	2111494	59	2112056	34	1	2111494

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

AECOM Canada Ltd
Maxxam Job #: B036036
Client Project #: 6014910
Report Date: 2010/07/08
Project name: IMICO SITE-MARCH 2010 SAMPLING

RESULTS OF ANALYSES OF WATER

Maxxam ID			FK7631		FK7632		FK7633		
Sampling Date			2010/03/24		2010/03/24		2010/03/24		
COC Number			185391-0		185391-0		185391-0		
	Units	**Criteria**	**OW11-1**	**QC Batch**	**OW9-II**	**QC Batch**	**OW11-II**	**RDL**	**QC Batch**
Inorganics									
Conductivity	umho/cm	-	775	2111647	781	2111647	730	1	2111647
Fluoride (F-)	mg/L	-	0.1	2111665	0.9	2111665	0.3	0.1	2111665
Orthophosphate (P)	mg/L	-	<0.01	2111498	<0.01	2112719	<0.01	0.01	2111498
pH	pH	-	7.6	2111654	7.4	2111654	7.5		2111654
Alkalinity (Total as CaCO3)	mg/L	-	410	2111646	366	2111646	379	1	2111646
Nitrite (N)	mg/L	-	0.01	2111474	<0.01	2111330	<0.01	0.01	2111474
Dissolved Chloride (Cl)	mg/L	**790**	2	2111494	13	2112038	4	1	2111494
Nitrate (N)	mg/L	-	0.2	2111474	<0.1	2111330	<0.1	0.1	2111474
Dissolved Bromide (Br-)	mg/L	-	<1	2111494	<1	2112038	<1	1	2111494
Dissolved Sulphate (SO4)	mg/L	-	29	2111494	48	2112038	26	1	2111494

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B036036
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

RESULTS OF ANALYSES OF WATER

Maxxam ID			FK7634		FK7636		
Sampling Date			2010/03/24		2010/03/24		
COC Number			185391-0		185391-0		
	Units	**Criteria**	**OW22-D**	**RDL**	**OW2**	**RDL**	**QC Batch**
Inorganics							
Conductivity	umho/cm	-	1820	1	715	1	2111647
Fluoride (F-)	mg/L	-	2.3	0.1	0.3	0.1	2111665
Orthophosphate (P)	mg/L	-	<0.01	0.01	<0.01	0.01	2112719
pH	pH	-	7.5		7.6		2111654
Alkalinity (Total as CaCO3)	mg/L	-	491	1	358	1	2111646
Nitrite (N)	mg/L	-	<0.01	0.01	<0.01	0.01	2111474
Dissolved Chloride (Cl)	mg/L	**790**	35	1	5	1	2111494
Nitrate (N)	mg/L	-	<0.1	0.1	<0.1	0.1	2111474
Dissolved Bromide (Br-)	mg/L	-	<1	1	<1	1	2111494
Dissolved Sulphate (SO4)	mg/L	-	566	5	40	1	2111494

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B036036
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID			FK7626	FK7627	FK7628	FK7630	FK7631		
Sampling Date			2010/03/24	2010/03/24	2010/03/24	2010/03/24	2010/03/24		
COC Number			185391-0	185391-0	185391-0	185391-0	185391-0		
	Units	**Criteria**	**DUP(OW1)**	**OW25**	**OW26D**	**OW26S**	**OW11-1**	**RDL**	**QC Batch**
Metals									
Dissolved Arsenic (As)	ug/L	**25**	7	<1	7	<1	<1	1	2111468
Dissolved Calcium (Ca)	ug/L	**-**	120000	90000	120000	98000	110000	200	2111468
Dissolved Lead (Pb)	ug/L	**10**	<0.5	<0.5	<0.5	<0.5	1.1	0.5	2111468
Dissolved Magnesium (Mg)	ug/L	**-**	26000	24000	26000	21000	33000	50	2111468
Dissolved Potassium (K)	ug/L	**-**	4500	7000	4400	5400	800	200	2111468
Dissolved Sodium (Na)	ug/L	**490000**	67000	7100	66000	27000	4900	100	2111468
Dissolved Zinc (Zn)	ug/L	**1100**	290	200	300	690	57	5	2111468

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam ID			FK7632	FK7633	FK7634	FK7635	FK7636		
Sampling Date			2010/03/24	2010/03/24	2010/03/24	2010/03/24	2010/03/24		
COC Number			185391-0	185391-0	185391-0	185391-0	185391-0		
	Units	**Criteria**	**OW9-II**	**OW11-II**	**OW22-D**	**OW6**	**OW2**	**RDL**	**QC Batch**
Metals									
Dissolved Arsenic (As)	ug/L	**25**	16	<1	8	<1	<1	1	2111468
Dissolved Calcium (Ca)	ug/L	**-**	120000	110000	370000	230000	100000	200	2111468
Dissolved Lead (Pb)	ug/L	**10**	4.2	2.4	<0.5	<0.5	<0.5	0.5	2111468
Dissolved Magnesium (Mg)	ug/L	**-**	23000	32000	44000	23000	30000	50	2111468
Dissolved Potassium (K)	ug/L	**-**	4400	1700	7500	6800	1400	200	2111468
Dissolved Sodium (Na)	ug/L	**490000**	10000	4300	21000	65000	4000	100	2111468
Dissolved Zinc (Zn)	ug/L	**1100**	530	510	41	**3500**	260	5	2111468

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B036036
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID			FK7626	FK7627	FK7628	FK7630	FK7631		
Sampling Date			2010/03/24	2010/03/24	2010/03/24	2010/03/24	2010/03/24		
COC Number			185391-0	185391-0	185391-0	185391-0	185391-0		
	Units	**Criteria**	**DUP(OW1)**	**OW25**	**OW26D**	**OW26S**	**OW11-1**	**RDL**	**QC Batch**
Volatile Organics									
Acetone (2-Propanone)	ug/L	**2700**	<10	<10	<10	<10	<10	10	2110335
Benzene	ug/L	**5.0**	0.1	<0.1	0.1	<0.1	<0.1	0.1	2110335
Bromodichloromethane	ug/L	**16.0**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2110335
Bromoform	ug/L	**25.0**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2110335
Bromomethane	ug/L	**0.89**	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	2110335
Carbon Tetrachloride	ug/L	**0.79**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2110335
Chlorobenzene	ug/L	**30**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2110335
Chloroform	ug/L	**2.4**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2110335
Dibromochloromethane	ug/L	**25.0**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2110335
1,2-Dichlorobenzene	ug/L	**3.0**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2110335
1,3-Dichlorobenzene	ug/L	**59**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2110335
1,4-Dichlorobenzene	ug/L	**1.0**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2110335
Dichlorodifluoromethane (FREON 12)	ug/L	**590**	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	2110335
1,1-Dichloroethane	ug/L	**5**	3.3	0.1	3.3	4.3	<0.1	0.1	2110335
1,2-Dichloroethane	ug/L	**1.6**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2110335
1,1-Dichloroethylene	ug/L	**1.6**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2110335
cis-1,2-Dichloroethylene	ug/L	**1.6**	**2.1**	0.4	**2.1**	0.2	<0.1	0.1	2110335
trans-1,2-Dichloroethylene	ug/L	**1.6**	0.1	0.1	0.1	<0.1	<0.1	0.1	2110335
1,2-Dichloropropane	ug/L	**5.0**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2110335
cis-1,3-Dichloropropene	ug/L	**0.5**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2110335
trans-1,3-Dichloropropene	ug/L	**0.5**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2110335
Ethylbenzene	ug/L	**2.4**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2110335
Ethylene Dibromide	ug/L	**0.2**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2110335
Hexane	ug/L	**51**	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	2110335
Methylene Chloride(Dichloromethane)	ug/L	**50**	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	2110335
Methyl Isobutyl Ketone	ug/L	**640**	<5	<5	<5	<5	<5	5	2110335
Methyl Ethyl Ketone (2-Butanone)	ug/L	**1800**	<5	<5	<5	<5	<5	5	2110335
Methyl t-butyl ether (MTBE)	ug/L	**15**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2110335
Styrene	ug/L	**5.4**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2110335
1,1,1,2-Tetrachloroethane	ug/L	**1.1**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2110335

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B036036
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID			FK7626	FK7627	FK7628	FK7630	FK7631		
Sampling Date			2010/03/24	2010/03/24	2010/03/24	2010/03/24	2010/03/24		
COC Number			185391-0	185391-0	185391-0	185391-0	185391-0		
	Units	**Criteria**	**DUP(OW1)**	**OW25**	**OW26D**	**OW26S**	**OW11-1**	**RDL**	**QC Batch**
1,1,2,2-Tetrachloroethane	ug/L	**1.0**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2110335
Tetrachloroethylene	ug/L	**1.6**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2110335
Toluene	ug/L	**24**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2110335
1,1,1-Trichloroethane	ug/L	**200**	<0.1	0.3	<0.1	2.6	<0.1	0.1	2110335
1,1,2-Trichloroethane	ug/L	**4.7**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2110335
Trichloroethylene	ug/L	**1.6**	0.3	**2.2**	0.3	0.1	<0.1	0.1	2110335
Vinyl Chloride	ug/L	**0.5**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2110335
p+m-Xylene	ug/L	**-**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2110335
o-Xylene	ug/L	**-**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2110335
Xylene (Total)	ug/L	**300**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2110335
Chloroethane	ug/L	**-**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2110335
Chloromethane	ug/L	**-**	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	2110335
Trichlorofluoromethane (FREON 11)	ug/L	**150**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2110335
Surrogate Recovery (%)									
4-Bromofluorobenzene	%	-	84	86	83	81	87		2110335
D4-1,2-Dichloroethane	%	-	105	104	106	107	108		2110335
D8-Toluene	%	-	96	107	101	101	98		2110335

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B036036
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID			FK7631	FK7632	FK7634	FK7636		
Sampling Date			2010/03/24	2010/03/24	2010/03/24	2010/03/24		
COC Number			185391-0	185391-0	185391-0	185391-0		
	Units	**Criteria**	**OW11-1 Lab-Dup**	**OW9-II**	**OW22-D**	**OW2**	**RDL**	**QC Batch**
Volatile Organics								
Acetone (2-Propanone)	ug/L	**2700**	<10	<10	<10	<10	10	2110335
Benzene	ug/L	**5.0**	<0.1	4.5	2.2	<0.1	0.1	2110335
Bromodichloromethane	ug/L	**16.0**	<0.1	<0.1	<0.1	<0.1	0.1	2110335
Bromoform	ug/L	**25.0**	<0.2	<0.2	<0.2	<0.2	0.2	2110335
Bromomethane	ug/L	**0.89**	<0.5	<0.5	<0.5	<0.5	0.5	2110335
Carbon Tetrachloride	ug/L	**0.79**	<0.1	<0.1	<0.1	<0.1	0.1	2110335
Chlorobenzene	ug/L	**30**	<0.1	<0.1	<0.1	<0.1	0.1	2110335
Chloroform	ug/L	**2.4**	<0.1	<0.1	<0.1	<0.1	0.1	2110335
Dibromochloromethane	ug/L	**25.0**	<0.2	<0.2	<0.2	<0.2	0.2	2110335
1,2-Dichlorobenzene	ug/L	**3.0**	<0.2	<0.2	<0.2	<0.2	0.2	2110335
1,3-Dichlorobenzene	ug/L	**59**	<0.2	<0.2	<0.2	<0.2	0.2	2110335
1,4-Dichlorobenzene	ug/L	**1.0**	<0.2	<0.2	<0.2	<0.2	0.2	2110335
Dichlorodifluoromethane (FREON 12)	ug/L	**590**	<0.5	<0.5	<0.5	<0.5	0.5	2110335
1,1-Dichloroethane	ug/L	**5**	<0.1	<0.1	0.3	<0.1	0.1	2110335
1,2-Dichloroethane	ug/L	**1.6**	<0.2	<0.2	<0.2	<0.2	0.2	2110335
1,1-Dichloroethylene	ug/L	**1.6**	<0.1	<0.1	<0.1	<0.1	0.1	2110335
cis-1,2-Dichloroethylene	ug/L	**1.6**	<0.1	**8.5**	0.3	<0.1	0.1	2110335
trans-1,2-Dichloroethylene	ug/L	**1.6**	<0.1	0.1	<0.1	<0.1	0.1	2110335
1,2-Dichloropropane	ug/L	**5.0**	<0.1	<0.1	<0.1	<0.1	0.1	2110335
cis-1,3-Dichloropropene	ug/L	**0.5**	<0.2	<0.2	<0.2	<0.2	0.2	2110335
trans-1,3-Dichloropropene	ug/L	**0.5**	<0.2	<0.2	<0.2	<0.2	0.2	2110335
Ethylbenzene	ug/L	**2.4**	<0.1	<0.1	<0.1	<0.1	0.1	2110335
Ethylene Dibromide	ug/L	**0.2**	<0.2	<0.2	<0.2	<0.2	0.2	2110335
Hexane	ug/L	**51**	<0.5	<0.5	<0.5	<0.5	0.5	2110335
Methylene Chloride(Dichloromethane)	ug/L	**50**	<0.5	<0.5	<0.5	<0.5	0.5	2110335
Methyl Isobutyl Ketone	ug/L	**640**	<5	<5	<5	<5	5	2110335
Methyl Ethyl Ketone (2-Butanone)	ug/L	**1800**	<5	<5	<5	<5	5	2110335
Methyl t-butyl ether (MTBE)	ug/L	**15**	<0.2	<0.2	<0.2	<0.2	0.2	2110335
Styrene	ug/L	**5.4**	<0.2	<0.2	<0.2	<0.2	0.2	2110335
1,1,1,2-Tetrachloroethane	ug/L	**1.1**	<0.1	<0.1	<0.1	<0.1	0.1	2110335

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B036036
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID			FK7631	FK7632	FK7634	FK7636		
Sampling Date			2010/03/24	2010/03/24	2010/03/24	2010/03/24		
COC Number			185391-0	185391-0	185391-0	185391-0		
	Units	**Criteria**	**OW11-1 Lab-Dup**	**OW9-II**	**OW22-D**	**OW2**	**RDL**	**QC Batch**
1,1,2,2-Tetrachloroethane	ug/L	**1.0**	<0.2	<0.2	<0.2	<0.2	0.2	2110335
Tetrachloroethylene	ug/L	**1.6**	<0.1	<0.1	<0.1	<0.1	0.1	2110335
Toluene	ug/L	**24**	<0.2	<0.2	<0.2	<0.2	0.2	2110335
1,1,1-Trichloroethane	ug/L	**200**	<0.1	<0.1	<0.1	<0.1	0.1	2110335
1,1,2-Trichloroethane	ug/L	**4.7**	<0.2	<0.2	<0.2	<0.2	0.2	2110335
Trichloroethylene	ug/L	**1.6**	<0.1	0.3	<0.1	<0.1	0.1	2110335
Vinyl Chloride	ug/L	**0.5**	<0.2	**4.3**	<0.2	<0.2	0.2	2110335
p+m-Xylene	ug/L	**-**	<0.1	<0.1	<0.1	<0.1	0.1	2110335
o-Xylene	ug/L	**-**	<0.1	<0.1	<0.1	<0.1	0.1	2110335
Xylene (Total)	ug/L	**300**	<0.1	<0.1	<0.1	<0.1	0.1	2110335
Chloroethane	ug/L	**-**	<0.2	<0.2	<0.2	<0.2	0.2	2110335
Chloromethane	ug/L	**-**	<0.5	<0.5	<0.5	<0.5	0.5	2110335
Trichlorofluoromethane (FREON 11)	ug/L	**150**	<0.2	<0.2	<0.2	<0.2	0.2	2110335
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	-	87	91	91	86		2110335
D4-1,2-Dichloroethane	%	-	102	107	110	110		2110335
D8-Toluene	%	-	97	97	97	105		2110335

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B036036
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		FK7626	FK7627	FK7628	FK7630	FK7631	FK7632		
Sampling Date		2010/03/24	2010/03/24	2010/03/24	2010/03/24	2010/03/24	2010/03/24		
COC Number		185391-0	185391-0	185391-0	185391-0	185391-0	185391-0		
	Units	**DUP(OW1)**	**OW25**	**OW26D**	**OW26S**	**OW11-1**	**OW9-II**	**RDL**	**QC Batch**
F2-F4 Hydrocarbons									
F1 + F2	ug/L	<100	190	<100	<100	<100	<100	100	2110646
F3 + F4	ug/L	<100	3300	<100	<100	<100	<100	100	2110647

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		FK7634	FK7636		
Sampling Date		2010/03/24	2010/03/24		
COC Number		185391-0	185391-0		
	Units	**OW22-D**	**OW2**	**RDL**	**QC Batch**
F2-F4 Hydrocarbons					
F1 + F2	ug/L	<100	<100	100	2110646
F3 + F4	ug/L	<100	<100	100	2110647

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B036036
Report Date: 2010/07/08

AECOM Canada Ltd
Client Project #: 6014910
Project name: IMICO SITE-MARCH 2010 SAMPLING

POLYCHLORINATED BIPHENYLS BY GC-ECD (WATER)

Maxxam ID			FK7626	FK7626	FK7628	FK7630		
Sampling Date			2010/03/24	2010/03/24	2010/03/24	2010/03/24		
COC Number			185391-0	185391-0	185391-0	185391-0		
	Units	**Criteria**	**DUP(OW1)**	**DUP(OW1) Lab-Dup**	**OW26D**	**OW26S**	**RDL**	**QC Batch**
PCBs								
Aroclor 1016	ug/L	-	<0.05	<0.05	<0.05	<0.05	0.05	2110765
Aroclor 1221	ug/L	-	<0.05	<0.05	<0.05	<0.05	0.05	2110765
Aroclor 1232	ug/L	-	<0.05	<0.05	<0.05	<0.05	0.05	2110765
Aroclor 1242	ug/L	-	<0.05	<0.05	<0.05	<0.05	0.05	2110765
Aroclor 1248	ug/L	-	<0.05	<0.05	<0.05	<0.05	0.05	2110765
Aroclor 1254	ug/L	-	<0.05	<0.05	<0.05	0.66	0.05	2110765
Aroclor 1260	ug/L	-	<0.05	<0.05	<0.05	0.61	0.05	2110765
Aroclor 1262	ug/L	-	<0.05	<0.05	<0.05	<0.05	0.05	2110765
Aroclor 1268	ug/L	-	<0.05	<0.05	<0.05	<0.05	0.05	2110765
Total PCB	ug/L	**3.0**	<0.05	<0.05	<0.05	1.27	0.05	2110765
Surrogate Recovery (%)								
2,4,5,6-Tetrachloro-m-xylene	%	-	49	53	54	57		2110765
Decachlorobiphenyl	%	-	82	82	81	87		2110765

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended July 27, 2009)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Texture Soil

Maxxam Job #: B036036
Report Date: 2010/07/08

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Package 1	2.7°C
Package 2	3.7°C
Package 3	0.7°C
Package 4	4.7°C

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.

Revised report: Reg 153 Criteria added as per client request.

Results relate only to the items tested.

AECOM Canada Ltd
Attention: Albanie Tremblay
Client Project #: 6014910
P.O. #:
Site Location: IMICO SITE-MARCH 2010 SAMPLING

Quality Assurance Report

Maxxam Job Number: MB036036

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2110335	J_W	Matrix Spike	4-Bromofluorobenzene	2010/03/29		97	%	70 - 130
			D4-1,2-Dichloroethane	2010/03/29		95	%	70 - 130
			D8-Toluene	2010/03/29		97	%	70 - 130
			Acetone (2-Propanone)	2010/03/29		89	%	60 - 140
			Benzene	2010/03/29		114	%	70 - 130
			Bromodichloromethane	2010/03/29		104	%	70 - 130
			Bromoform	2010/03/29		77	%	70 - 130
			Bromomethane	2010/03/29		118	%	60 - 140
			Carbon Tetrachloride	2010/03/29		109	%	70 - 130
			Chlorobenzene	2010/03/29		102	%	70 - 130
			Chloroform	2010/03/29		106	%	70 - 130
			Dibromochloromethane	2010/03/29		92	%	70 - 130
			1,2-Dichlorobenzene	2010/03/29		99	%	70 - 130
			1,3-Dichlorobenzene	2010/03/29		102	%	70 - 130
			1,4-Dichlorobenzene	2010/03/29		101	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2010/03/29		92	%	60 - 140
			1,1-Dichloroethane	2010/03/29		110	%	70 - 130
			1,2-Dichloroethane	2010/03/29		103	%	70 - 130
			1,1-Dichloroethylene	2010/03/29		121	%	70 - 130
			cis-1,2-Dichloroethylene	2010/03/29		107	%	70 - 130
			trans-1,2-Dichloroethylene	2010/03/29		111	%	70 - 130
			1,2-Dichloropropane	2010/03/29		122	%	70 - 130
			cis-1,3-Dichloropropene	2010/03/29		119	%	70 - 130
			trans-1,3-Dichloropropene	2010/03/29		101	%	70 - 130
			Ethylbenzene	2010/03/29		107	%	70 - 130
			Ethylene Dibromide	2010/03/29		96	%	70 - 130
			Hexane	2010/03/29		122	%	70 - 130
			Methylene Chloride(Dichloromethane)	2010/03/29		110	%	70 - 130
			Methyl Isobutyl Ketone	2010/03/29		109	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2010/03/29		106	%	60 - 140
			Methyl t-butyl ether (MTBE)	2010/03/29		99	%	70 - 130
			Styrene	2010/03/29		91	%	70 - 130
			1,1,1,2-Tetrachloroethane	2010/03/29		99	%	70 - 130
			1,1,2,2-Tetrachloroethane	2010/03/29		98	%	70 - 130
			Tetrachloroethylene	2010/03/29		97	%	70 - 130
			Toluene	2010/03/29		101	%	70 - 130
			1,1,1-Trichloroethane	2010/03/29		105	%	70 - 130
			1,1,2-Trichloroethane	2010/03/29		92	%	70 - 130
			Trichloroethylene	2010/03/29		106	%	70 - 130
			Vinyl Chloride	2010/03/29		111	%	70 - 130
			p+m-Xylene	2010/03/29		106	%	70 - 130
			o-Xylene	2010/03/29		104	%	70 - 130
			Chloroethane	2010/03/29		115	%	70 - 130
			Chloromethane	2010/03/29		111	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2010/03/29		99	%	70 - 130
		Spiked Blank	4-Bromofluorobenzene	2010/03/29		98	%	70 - 130
			D4-1,2-Dichloroethane	2010/03/29		102	%	70 - 130
			D8-Toluene	2010/03/29		96	%	70 - 130
			Acetone (2-Propanone)	2010/03/29		105	%	60 - 140
			Benzene	2010/03/29		113	%	70 - 130
			Bromodichloromethane	2010/03/29		107	%	70 - 130
			Bromoform	2010/03/29		82	%	70 - 130
			Bromomethane	2010/03/29		110	%	60 - 140
			Carbon Tetrachloride	2010/03/29		104	%	70 - 130
			Chlorobenzene	2010/03/29		103	%	70 - 130

AECOM Canada Ltd
Attention: Albanie Tremblay
Client Project #: 6014910
P.O. #:
Site Location: IMICO SITE-MARCH 2010 SAMPLING

Quality Assurance Report (Continued)

Maxxam Job Number: MB036036

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2110335	J_W	Spiked Blank	Chloroform	2010/03/29		109	%	70 - 130
			Dibromochloromethane	2010/03/29		95	%	70 - 130
			1,2-Dichlorobenzene	2010/03/29		96	%	70 - 130
			1,3-Dichlorobenzene	2010/03/29		100	%	70 - 130
			1,4-Dichlorobenzene	2010/03/29		99	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2010/03/29		96	%	60 - 140
			1,1-Dichloroethane	2010/03/29		112	%	70 - 130
			1,2-Dichloroethane	2010/03/29		111	%	70 - 130
			1,1-Dichloroethylene	2010/03/29		118	%	70 - 130
			cis-1,2-Dichloroethylene	2010/03/29		110	%	70 - 130
			trans-1,2-Dichloroethylene	2010/03/29		111	%	70 - 130
			1,2-Dichloropropane	2010/03/29		122	%	70 - 130
			cis-1,3-Dichloropropene	2010/03/29		121	%	70 - 130
			trans-1,3-Dichloropropene	2010/03/29		105	%	70 - 130
			Ethylbenzene	2010/03/29		106	%	70 - 130
			Ethylene Dibromide	2010/03/29		107	%	70 - 130
			Hexane	2010/03/29		122	%	70 - 130
			Methylene Chloride(Dichloromethane)	2010/03/29		115	%	70 - 130
			Methyl Isobutyl Ketone	2010/03/29		123	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2010/03/29		117	%	60 - 140
			Methyl t-butyl ether (MTBE)	2010/03/29		116	%	70 - 130
			Styrene	2010/03/29		91	%	70 - 130
			1,1,1,2-Tetrachloroethane	2010/03/29		99	%	70 - 130
			1,1,2,2-Tetrachloroethane	2010/03/29		103	%	70 - 130
			Tetrachloroethylene	2010/03/29		89	%	70 - 130
			Toluene	2010/03/29		97	%	70 - 130
			1,1,1-Trichloroethane	2010/03/29		101	%	70 - 130
			1,1,2-Trichloroethane	2010/03/29		95	%	70 - 130
			Trichloroethylene	2010/03/29		105	%	70 - 130
			Vinyl Chloride	2010/03/29		110	%	70 - 130
			p+m-Xylene	2010/03/29		103	%	70 - 130
			o-Xylene	2010/03/29		101	%	70 - 130
			Chloroethane	2010/03/29		113	%	70 - 130
			Chloromethane	2010/03/29		101	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2010/03/29		97	%	70 - 130
		Method Blank	4-Bromofluorobenzene	2010/03/29		93	%	70 - 130
			D4-1,2-Dichloroethane	2010/03/29		100	%	70 - 130
			D8-Toluene	2010/03/29		100	%	70 - 130
			Acetone (2-Propanone)	2010/03/29	<10		ug/L	
			Benzene	2010/03/29	<0.1		ug/L	
			Bromodichloromethane	2010/03/29	<0.1		ug/L	
			Bromoform	2010/03/29	<0.2		ug/L	
			Bromomethane	2010/03/29	<0.5		ug/L	
			Carbon Tetrachloride	2010/03/29	<0.1		ug/L	
			Chlorobenzene	2010/03/29	<0.1		ug/L	
			Chloroform	2010/03/29	<0.1		ug/L	
			Dibromochloromethane	2010/03/29	<0.2		ug/L	
			1,2-Dichlorobenzene	2010/03/29	<0.2		ug/L	
			1,3-Dichlorobenzene	2010/03/29	<0.2		ug/L	
			1,4-Dichlorobenzene	2010/03/29	<0.2		ug/L	
			Dichlorodifluoromethane (FREON 12)	2010/03/29	<0.5		ug/L	
			1,1-Dichloroethane	2010/03/29	<0.1		ug/L	
			1,2-Dichloroethane	2010/03/29	<0.2		ug/L	
			1,1-Dichloroethylene	2010/03/29	<0.1		ug/L	
			cis-1,2-Dichloroethylene	2010/03/29	<0.1		ug/L	

AECOM Canada Ltd
Attention: Albanie Tremblay
Client Project #: 6014910
P.O. #:
Site Location: IMICO SITE-MARCH 2010 SAMPLING

Quality Assurance Report (Continued)

Maxxam Job Number: MB036036

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2110335	J_W	Method Blank	trans-1,2-Dichloroethylene	2010/03/29	<0.1		ug/L	
			1,2-Dichloropropane	2010/03/29	<0.1		ug/L	
			cis-1,3-Dichloropropene	2010/03/29	<0.2		ug/L	
			trans-1,3-Dichloropropene	2010/03/29	<0.2		ug/L	
			Ethylbenzene	2010/03/29	<0.1		ug/L	
			Ethylene Dibromide	2010/03/29	<0.2		ug/L	
			Hexane	2010/03/29	<0.5		ug/L	
			Methylene Chloride(Dichloromethane)	2010/03/29	<0.5		ug/L	
			Methyl Isobutyl Ketone	2010/03/29	<5		ug/L	
			Methyl Ethyl Ketone (2-Butanone)	2010/03/29	<5		ug/L	
			Methyl t-butyl ether (MTBE)	2010/03/29	<0.2		ug/L	
			Styrene	2010/03/29	<0.2		ug/L	
			1,1,1,2-Tetrachloroethane	2010/03/29	<0.1		ug/L	
			1,1,2,2-Tetrachloroethane	2010/03/29	<0.2		ug/L	
			Tetrachloroethylene	2010/03/29	<0.1		ug/L	
			Toluene	2010/03/29	<0.2		ug/L	
			1,1,1-Trichloroethane	2010/03/29	<0.1		ug/L	
			1,1,2-Trichloroethane	2010/03/29	<0.2		ug/L	
			Trichloroethylene	2010/03/29	<0.1		ug/L	
			Vinyl Chloride	2010/03/29	<0.2		ug/L	
			p+m-Xylene	2010/03/29	<0.1		ug/L	
			o-Xylene	2010/03/29	<0.1		ug/L	
			Xylene (Total)	2010/03/29	<0.1		ug/L	
			Chloroethane	2010/03/29	<0.2		ug/L	
			Chloromethane	2010/03/29	<0.5		ug/L	
			Trichlorofluoromethane (FREON 11)	2010/03/29	<0.2		ug/L	
		RPD [FK7631-04]	Acetone (2-Propanone)	2010/03/29	NC		%	40
			Benzene	2010/03/29	NC		%	40
			Bromodichloromethane	2010/03/29	NC		%	40
			Bromoform	2010/03/29	NC		%	40
			Bromomethane	2010/03/29	NC		%	40
			Carbon Tetrachloride	2010/03/29	NC		%	40
			Chlorobenzene	2010/03/29	NC		%	40
			Chloroform	2010/03/29	NC		%	40
			Dibromochloromethane	2010/03/29	NC		%	40
			1,2-Dichlorobenzene	2010/03/29	NC		%	40
			1,3-Dichlorobenzene	2010/03/29	NC		%	40
			1,4-Dichlorobenzene	2010/03/29	NC		%	40
			Dichlorodifluoromethane (FREON 12)	2010/03/29	NC		%	40
			1,1-Dichloroethane	2010/03/29	NC		%	40
			1,2-Dichloroethane	2010/03/29	NC		%	40
			1,1-Dichloroethylene	2010/03/29	NC		%	40
			cis-1,2-Dichloroethylene	2010/03/29	NC		%	40
			trans-1,2-Dichloroethylene	2010/03/29	NC		%	40
			1,2-Dichloropropane	2010/03/29	NC		%	40
			cis-1,3-Dichloropropene	2010/03/29	NC		%	40
			trans-1,3-Dichloropropene	2010/03/29	NC		%	40
			Ethylbenzene	2010/03/29	NC		%	40
			Ethylene Dibromide	2010/03/29	NC		%	40
			Hexane	2010/03/29	NC		%	40
			Methylene Chloride(Dichloromethane)	2010/03/29	NC		%	40
			Methyl Isobutyl Ketone	2010/03/29	NC		%	40
			Methyl Ethyl Ketone (2-Butanone)	2010/03/29	NC		%	40
			Methyl t-butyl ether (MTBE)	2010/03/29	NC		%	40
			Styrene	2010/03/29	NC		%	40

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2110335	J_W	RPD [FK7631-04]	1,1,1,2-Tetrachloroethane	2010/03/29	NC		%	40
			1,1,2,2-Tetrachloroethane	2010/03/29	NC		%	40
			Tetrachloroethylene	2010/03/29	NC		%	40
			Toluene	2010/03/29	NC		%	40
			1,1,1-Trichloroethane	2010/03/29	NC		%	40
			1,1,2-Trichloroethane	2010/03/29	NC		%	40
			Trichloroethylene	2010/03/29	NC		%	40
			Vinyl Chloride	2010/03/29	NC		%	40
			p+m-Xylene	2010/03/29	NC		%	40
			o-Xylene	2010/03/29	NC		%	40
			Xylene (Total)	2010/03/29	NC		%	40
			Chloroethane	2010/03/29	NC		%	40
			Chloromethane	2010/03/29	NC		%	40
			Trichlorofluoromethane (FREON 11)	2010/03/29	NC		%	40
2110679	JJI	Matrix Spike [FK7628-01]	D10-Anthracene	2010/03/29		96	%	30 - 130
			D14-Terphenyl (FS)	2010/03/29		91	%	30 - 130
			D7-Quinoline	2010/03/29		103	%	30 - 130
			D8-Acenaphthylene	2010/03/29		92	%	30 - 130
			Acenaphthene	2010/03/29		97	%	30 - 130
			Acenaphthylene	2010/03/29		96	%	30 - 130
			Anthracene	2010/03/29		101	%	30 - 130
			Benzo(a)anthracene	2010/03/29		115	%	30 - 130
			Benzo(a)pyrene	2010/03/29		103	%	30 - 130
			Benzo(b/j)fluoranthene	2010/03/29		105	%	30 - 130
			Benzo(g,h,i)perylene	2010/03/29		132 (1)	%	30 - 130
			Benzo(k)fluoranthene	2010/03/29		101	%	30 - 130
			Chrysene	2010/03/29		119	%	30 - 130
			Dibenz(a,h)anthracene	2010/03/29		113	%	30 - 130
			Fluoranthene	2010/03/29		115	%	30 - 130
			Fluorene	2010/03/29		107	%	30 - 130
			Indeno(1,2,3-cd)pyrene	2010/03/29		111	%	30 - 130
			1-Methylnaphthalene	2010/03/29		95	%	30 - 130
			2-Methylnaphthalene	2010/03/29		87	%	30 - 130
			Naphthalene	2010/03/29		80	%	30 - 130
			Phenanthrene	2010/03/29		107	%	30 - 130
			Pyrene	2010/03/29		110	%	30 - 130
		Spiked Blank	D10-Anthracene	2010/03/29		97	%	30 - 130
			D14-Terphenyl (FS)	2010/03/29		90	%	30 - 130
			D7-Quinoline	2010/03/29		101	%	30 - 130
			D8-Acenaphthylene	2010/03/29		91	%	30 - 130
			Acenaphthene	2010/03/29		95	%	30 - 130
			Acenaphthylene	2010/03/29		94	%	30 - 130
			Anthracene	2010/03/29		102	%	30 - 130
			Benzo(a)anthracene	2010/03/29		113	%	30 - 130
			Benzo(a)pyrene	2010/03/29		102	%	30 - 130
			Benzo(b/j)fluoranthene	2010/03/29		101	%	30 - 130
			Benzo(g,h,i)perylene	2010/03/29		130	%	30 - 130
			Benzo(k)fluoranthene	2010/03/29		106	%	30 - 130
			Chrysene	2010/03/29		118	%	30 - 130
			Dibenz(a,h)anthracene	2010/03/29		111	%	30 - 130
			Fluoranthene	2010/03/29		114	%	30 - 130
			Fluorene	2010/03/29		105	%	30 - 130
			Indeno(1,2,3-cd)pyrene	2010/03/29		110	%	30 - 130
			1-Methylnaphthalene	2010/03/29		91	%	30 - 130

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2110679	JJI	Spiked Blank	2-Methylnaphthalene	2010/03/29		83	%	30 - 130
			Naphthalene	2010/03/29		78	%	30 - 130
			Phenanthrene	2010/03/29		107	%	30 - 130
			Pyrene	2010/03/29		109	%	30 - 130
		Method Blank	D10-Anthracene	2010/03/29		99	%	30 - 130
			D14-Terphenyl (FS)	2010/03/29		89	%	30 - 130
			D7-Quinoline	2010/03/29		102	%	30 - 130
			D8-Acenaphthylene	2010/03/29		92	%	30 - 130
			Acenaphthene	2010/03/29	<0.05		ug/L	
			Acenaphthylene	2010/03/29	<0.05		ug/L	
			Anthracene	2010/03/29	<0.05		ug/L	
			Benzo(a)anthracene	2010/03/29	<0.05		ug/L	
			Benzo(a)pyrene	2010/03/29	<0.01		ug/L	
			Benzo(b/j)fluoranthene	2010/03/29	<0.05		ug/L	
			Benzo(g,h,i)perylene	2010/03/29	<0.1		ug/L	
			Benzo(k)fluoranthene	2010/03/29	<0.05		ug/L	
			Chrysene	2010/03/29	<0.05		ug/L	
			Dibenz(a,h)anthracene	2010/03/29	<0.1		ug/L	
			Fluoranthene	2010/03/29	<0.05		ug/L	
			Fluorene	2010/03/29	<0.05		ug/L	
			Indeno(1,2,3-cd)pyrene	2010/03/29	<0.1		ug/L	
			1-Methylnaphthalene	2010/03/29	<0.05		ug/L	
			2-Methylnaphthalene	2010/03/29	<0.05		ug/L	
			Naphthalene	2010/03/29	<0.05		ug/L	
			Phenanthrene	2010/03/29	<0.03		ug/L	
			Pyrene	2010/03/29	<0.05		ug/L	
		RPD [FK7627-01]	Acenaphthene	2010/03/29	NC		%	40
			Acenaphthylene	2010/03/29	NC		%	40
			Anthracene	2010/03/29	NC		%	40
			Benzo(a)anthracene	2010/03/29	NC		%	40
			Benzo(a)pyrene	2010/03/29	NC		%	40
			Benzo(b/j)fluoranthene	2010/03/29	NC (2)		%	40
			Benzo(g,h,i)perylene	2010/03/29	NC		%	40
			Benzo(k)fluoranthene	2010/03/29	NC		%	40
			Chrysene	2010/03/29	NC		%	40
			Dibenz(a,h)anthracene	2010/03/29	NC		%	40
			Fluoranthene	2010/03/29	NC		%	40
			Fluorene	2010/03/29	NC		%	40
			Indeno(1,2,3-cd)pyrene	2010/03/29	NC		%	40
			1-Methylnaphthalene	2010/03/29	NC		%	40
			2-Methylnaphthalene	2010/03/29	NC		%	40
			Naphthalene	2010/03/29	NC		%	40
			Phenanthrene	2010/03/29	NC		%	40
			Pyrene	2010/03/29	NC		%	40
2110765	JZ	Matrix Spike [FK7628-03]	2,4,5,6-Tetrachloro-m-xylene	2010/03/30		57	%	40 - 130
			Decachlorobiphenyl	2010/03/30		86	%	40 - 130
			Aroclor 1260	2010/03/30		86	%	30 - 130
			Total PCB	2010/03/30		86	%	30 - 130
		Spiked Blank	2,4,5,6-Tetrachloro-m-xylene	2010/03/30		75	%	40 - 130
			Decachlorobiphenyl	2010/03/30		92	%	40 - 130
			Aroclor 1260	2010/03/30		92	%	30 - 130
			Total PCB	2010/03/30		92	%	30 - 130
		Method Blank	2,4,5,6-Tetrachloro-m-xylene	2010/03/30		81	%	40 - 130
			Decachlorobiphenyl	2010/03/30		100	%	40 - 130

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2110765	JZ	Method Blank	Aroclor 1016	2010/03/30	<0.05		ug/L	
			Aroclor 1221	2010/03/30	<0.05		ug/L	
			Aroclor 1232	2010/03/30	<0.05		ug/L	
			Aroclor 1242	2010/03/30	<0.05		ug/L	
			Aroclor 1248	2010/03/30	<0.05		ug/L	
			Aroclor 1254	2010/03/30	<0.05		ug/L	
			Aroclor 1260	2010/03/30	<0.05		ug/L	
			Aroclor 1262	2010/03/30	<0.05		ug/L	
			Aroclor 1268	2010/03/30	<0.05		ug/L	
			Total PCB	2010/03/30	<0.05		ug/L	
		RPD [FK7626-03]	Aroclor 1016	2010/03/30	NC		%	40
			Aroclor 1221	2010/03/30	NC		%	40
			Aroclor 1232	2010/03/30	NC		%	40
			Aroclor 1242	2010/03/30	NC		%	40
			Aroclor 1248	2010/03/30	NC		%	40
			Aroclor 1254	2010/03/30	NC		%	40
			Aroclor 1260	2010/03/30	NC		%	40
			Aroclor 1262	2010/03/30	NC		%	40
			Aroclor 1268	2010/03/30	NC		%	40
			Total PCB	2010/03/30	NC		%	40
2111330	C_N	Matrix Spike	Nitrite (N)	2010/03/29		NC	%	80 - 120
			Nitrate (N)	2010/03/29		NC	%	80 - 120
		Spiked Blank	Nitrite (N)	2010/03/29		102	%	85 - 115
			Nitrate (N)	2010/03/29		108	%	85 - 115
		Method Blank	Nitrite (N)	2010/03/29	<0.01		mg/L	
			Nitrate (N)	2010/03/29	<0.1		mg/L	
		RPD	Nitrate (N)	2010/03/29	NC		%	25
2111468	HRE	Matrix Spike	Dissolved Arsenic (As)	2010/03/29		104	%	80 - 120
			Dissolved Calcium (Ca)	2010/03/29		NC	%	80 - 120
			Dissolved Lead (Pb)	2010/03/29		103	%	80 - 120
			Dissolved Magnesium (Mg)	2010/03/29		NC	%	80 - 120
			Dissolved Potassium (K)	2010/03/29		98	%	80 - 120
			Dissolved Sodium (Na)	2010/03/29		101	%	80 - 120
			Dissolved Zinc (Zn)	2010/03/29		92	%	80 - 120
		Spiked Blank	Dissolved Arsenic (As)	2010/03/29		104	%	90 - 110
			Dissolved Calcium (Ca)	2010/03/29		106	%	90 - 110
			Dissolved Lead (Pb)	2010/03/29		96	%	90 - 110
			Dissolved Magnesium (Mg)	2010/03/29		106	%	90 - 110
			Dissolved Potassium (K)	2010/03/29		104	%	90 - 110
			Dissolved Sodium (Na)	2010/03/29		106	%	90 - 110
			Dissolved Zinc (Zn)	2010/03/29		99	%	90 - 110
		Method Blank	Dissolved Arsenic (As)	2010/03/29	<1		ug/L	
			Dissolved Calcium (Ca)	2010/03/29	<200		ug/L	
			Dissolved Lead (Pb)	2010/03/29	<0.5		ug/L	
			Dissolved Magnesium (Mg)	2010/03/29	<50		ug/L	
			Dissolved Potassium (K)	2010/03/29	<200		ug/L	
			Dissolved Sodium (Na)	2010/03/29	<100		ug/L	
			Dissolved Zinc (Zn)	2010/03/29	<5		ug/L	
		RPD	Dissolved Lead (Pb)	2010/03/29	NC		%	25
2111474	C_N	Matrix Spike	Nitrite (N)	2010/03/29		100	%	80 - 120
			Nitrate (N)	2010/03/29		102	%	80 - 120
		Spiked Blank	Nitrite (N)	2010/03/29		102	%	85 - 115
			Nitrate (N)	2010/03/29		104	%	85 - 115
		Method Blank	Nitrite (N)	2010/03/29	<0.01		mg/L	
			Nitrate (N)	2010/03/29	<0.1		mg/L	

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2111474	C_N	RPD	Nitrite (N)	2010/03/29	NC		%	25
			Nitrate (N)	2010/03/29	NC		%	25
2111494	FD	Matrix Spike	Dissolved Sulphate (SO4)	2010/03/31		99	%	80 - 120
		Spiked Blank	Dissolved Chloride (Cl)	2010/03/31		101	%	85 - 115
			Dissolved Bromide (Br-)	2010/03/31		102	%	85 - 115
			Dissolved Sulphate (SO4)	2010/03/31		101	%	85 - 115
		Method Blank	Dissolved Chloride (Cl)	2010/03/31	<1		mg/L	
			Dissolved Bromide (Br-)	2010/03/31	<1		mg/L	
			Dissolved Sulphate (SO4)	2010/03/31	<1		mg/L	
		RPD	Dissolved Sulphate (SO4)	2010/03/31	1.9		%	25
2111498	DRM	Matrix Spike	Orthophosphate (P)	2010/03/31		95	%	75 - 125
		Spiked Blank	Orthophosphate (P)	2010/03/31		100	%	80 - 120
		Method Blank	Orthophosphate (P)	2010/03/31	0.02, RDL=0.01		mg/L	
		RPD	Orthophosphate (P)	2010/03/31	NC		%	25
2111646	YPA	QC Standard	Alkalinity (Total as CaCO3)	2010/03/29		98	%	85 - 115
		Method Blank	Alkalinity (Total as CaCO3)	2010/03/29	<1		mg/L	
		RPD	Alkalinity (Total as CaCO3)	2010/03/29	2.1		%	25
2111647	YPA	QC Standard	Conductivity	2010/03/29		100	%	85 - 115
		Method Blank	Conductivity	2010/03/29	<1		umho/cm	
		RPD	Conductivity	2010/03/29	0		%	25
2111665	YPA	Matrix Spike	Fluoride (F-)	2010/03/29		97	%	80 - 120
		Spiked Blank	Fluoride (F-)	2010/03/29		100	%	85 - 115
		Method Blank	Fluoride (F-)	2010/03/29	<0.1		mg/L	
		RPD	Fluoride (F-)	2010/03/29	NC		%	25
2112038	FD	Matrix Spike	Dissolved Chloride (Cl)	2010/03/31		NC	%	80 - 120
			Dissolved Bromide (Br-)	2010/03/31		95	%	80 - 120
			Dissolved Sulphate (SO4)	2010/03/31		100	%	80 - 120
		Spiked Blank	Dissolved Chloride (Cl)	2010/03/31		101	%	85 - 115
			Dissolved Bromide (Br-)	2010/03/31		104	%	85 - 115
			Dissolved Sulphate (SO4)	2010/03/31		100	%	85 - 115
		Method Blank	Dissolved Chloride (Cl)	2010/03/31	<1		mg/L	
			Dissolved Bromide (Br-)	2010/03/31	<1		mg/L	
			Dissolved Sulphate (SO4)	2010/03/31	<1		mg/L	
		RPD	Dissolved Chloride (Cl)	2010/03/31	5.3		%	25
			Dissolved Bromide (Br-)	2010/03/31	NC		%	25
			Dissolved Sulphate (SO4)	2010/03/31	NC		%	25
2112056	FD	Matrix Spike	Dissolved Chloride (Cl)	2010/03/30		101	%	80 - 120
			Dissolved Bromide (Br-)	2010/03/30		100	%	80 - 120
			Dissolved Sulphate (SO4)	2010/03/30		98	%	80 - 120
		Spiked Blank	Dissolved Chloride (Cl)	2010/03/30		101	%	85 - 115
			Dissolved Bromide (Br-)	2010/03/30		105	%	85 - 115
			Dissolved Sulphate (SO4)	2010/03/30		100	%	85 - 115
		Method Blank	Dissolved Chloride (Cl)	2010/03/30	<1		mg/L	
			Dissolved Bromide (Br-)	2010/03/30	<1		mg/L	
			Dissolved Sulphate (SO4)	2010/03/30	<1		mg/L	
		RPD	Dissolved Chloride (Cl)	2010/03/30	0.4		%	25
			Dissolved Bromide (Br-)	2010/03/30	NC		%	25
			Dissolved Sulphate (SO4)	2010/03/30	0.2		%	25
2112105	GRU	Matrix Spike						
		[FK7628-07]	1,4-Difluorobenzene	2010/03/30		89	%	70 - 130
			4-Bromofluorobenzene	2010/03/30		103	%	70 - 130
			D10-Ethylbenzene	2010/03/30		117	%	70 - 130
			D4-1,2-Dichloroethane	2010/03/30		88	%	70 - 130
			F1 (C6-C10)	2010/03/30		76	%	70 - 130
			Gasoline	2010/03/30		76	%	70 - 130

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2112105	GRU	Spiked Blank	1,4-Difluorobenzene	2010/03/31		97	%	70 - 130
			4-Bromofluorobenzene	2010/03/31		93	%	70 - 130
			D10-Ethylbenzene	2010/03/31		103	%	70 - 130
			D4-1,2-Dichloroethane	2010/03/31		86	%	70 - 130
			F1 (C6-C10)	2010/03/31		87	%	70 - 130
			Gasoline	2010/03/31		87	%	70 - 130
		Method Blank	1,4-Difluorobenzene	2010/03/30		92	%	70 - 130
			4-Bromofluorobenzene	2010/03/30		97	%	70 - 130
			D10-Ethylbenzene	2010/03/30		101	%	70 - 130
			D4-1,2-Dichloroethane	2010/03/30		94	%	70 - 130
			F1 (C6-C10)	2010/03/30	<100		ug/L	
			F1 (C6-C10) - BTEX	2010/03/30	<100		ug/L	
			Gasoline	2010/03/30	<100		ug/L	
		RPD [FK7628-07]	F1 (C6-C10)	2010/03/30	NC		%	40
			F1 (C6-C10) - BTEX	2010/03/30	NC		%	40
			Gasoline	2010/03/30	NC		%	40
2112435	SHK	Matrix Spike	1,4-Difluorobenzene	2010/03/30		108	%	70 - 130
			4-Bromofluorobenzene	2010/03/30		94	%	70 - 130
			D10-Ethylbenzene	2010/03/30		91	%	70 - 130
			D4-1,2-Dichloroethane	2010/03/30		107	%	70 - 130
			F1 (C6-C10)	2010/03/30		NC	%	70 - 130
			Gasoline	2010/03/30		NC	%	70 - 130
		Spiked Blank	1,4-Difluorobenzene	2010/03/30		112	%	70 - 130
			4-Bromofluorobenzene	2010/03/30		92	%	70 - 130
			D10-Ethylbenzene	2010/03/30		91	%	70 - 130
			D4-1,2-Dichloroethane	2010/03/30		104	%	70 - 130
			F1 (C6-C10)	2010/03/30		97	%	70 - 130
			Gasoline	2010/03/30		97	%	70 - 130
		Method Blank	1,4-Difluorobenzene	2010/03/30		107	%	70 - 130
			4-Bromofluorobenzene	2010/03/30		89	%	70 - 130
			D10-Ethylbenzene	2010/03/30		80	%	70 - 130
			D4-1,2-Dichloroethane	2010/03/30		103	%	70 - 130
			F1 (C6-C10)	2010/03/30	<100		ug/L	
			F1 (C6-C10) - BTEX	2010/03/30	<100		ug/L	
			Gasoline	2010/03/30	<100		ug/L	
		RPD	F1 (C6-C10)	2010/03/31	1.7		%	40
			F1 (C6-C10) - BTEX	2010/03/31	NC		%	40
2112719	DRM	Matrix Spike	Orthophosphate (P)	2010/03/31		NC	%	75 - 125
		Spiked Blank	Orthophosphate (P)	2010/03/31		96	%	80 - 120
		Method Blank	Orthophosphate (P)	2010/03/31	<0.01		mg/L	
		RPD	Orthophosphate (P)	2010/03/31	0.6		%	25
2113033	ZZ	Matrix Spike	o-Terphenyl	2010/03/30		116	%	30 - 130
			F2 (C10-C16 Hydrocarbons)	2010/03/30		104	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2010/03/30		104	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2010/03/30		104	%	60 - 130
			Diesel (C10-C24)	2010/03/30		104	%	30 - 130
		Spiked Blank	o-Terphenyl	2010/03/30		119	%	30 - 130
			F2 (C10-C16 Hydrocarbons)	2010/03/30		102	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2010/03/30		102	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2010/03/30		102	%	60 - 130
			Diesel (C10-C24)	2010/03/30		102	%	30 - 130
		Method Blank	o-Terphenyl	2010/03/31		112	%	30 - 130
			F2 (C10-C16 Hydrocarbons)	2010/03/31	<100		ug/L	
			F3 (C16-C34 Hydrocarbons)	2010/03/31	<100		ug/L	
			F4 (C34-C50 Hydrocarbons)	2010/03/31	<100		ug/L	

AECOM Canada Ltd
Attention: Albanie Tremblay
Client Project #: 6014910
P.O. #:
Site Location: IMICO SITE-MARCH 2010 SAMPLING

Quality Assurance Report (Continued)

Maxxam Job Number: MB036036

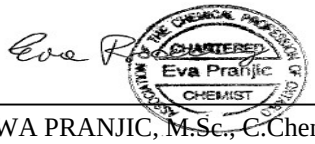
QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2113033	ZZ	Method Blank	Diesel (C10-C24)	2010/03/31	<100		ug/L	
		RPD	F2 (C10-C16 Hydrocarbons)	2010/03/31	NC		%	50
			F3 (C16-C34 Hydrocarbons)	2010/03/31	NC		%	50
			F4 (C34-C50 Hydrocarbons)	2010/03/31	NC		%	50

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
(1) The recovery was above the higher control limit. This may represent a high bias in some results for this specific analyte.
(2) Detection Limit was raised due to matrix interferences.

Validation Signature Page

Maxxam Job #: B036036

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



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

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