



Environmental Division

Certificate of Analysis

GARTNER LEE LTD. ATTN: KEN BOLDT

300 TOWN CENTRE BOULVARD

SUITE 300

MARKHAM ON L3R 5Z6

Reported On: 16-SEP-08 04:27 PM

Revision: 2

Lab Work Order #: L673739 Date Received: 25-AUG-08

Project P.O. #: KSL-00627 Job Reference: 80297

Legal Site Desc:

CofC Numbers: C065115

Other Information:

Comments: Please note that the certain Metalss detection limits have been increased for some of the samples due to the matrix interferences

encountered during the analysis.

MATASHA MARKOVIC-MIROVIC

Account Manager

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY. ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

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ALS LABORATORY GROUP ANALYTICAL REPORT

| | Sample ID Description | L673739-1 | L673739-2 | L673739-3 | L673739-4 | L673739-5 |
|-------------------------------|--|-----------|-----------|-----------|-----------|-----------|
| | Sampled Date Sampled Time | 19-AUG-08 | 19-AUG-08 | 19-AUG-08 | 19-AUG-08 | 15-AUG-08 |
| | Client ID | C2-MW-1 | C2-MW-2 | C2-MW-3 | C2-MW-4 | P2-MW-13 |
| Grouping | Analyte | | | | | |
| WATER | | | | | | |
| Physical Tests | Hardness (as CaCO3) (mg/L) | 1130 | 1140 | 983 | 844 | 1170 |
| Total Metals | Arsenic (As)-Total (mg/L) | <0.0050 | <0.010 | <0.010 | <0.0050 | <0.0050 |
| | Cadmium (Cd)-Total (mg/L) | <0.00025 | <0.00050 | <0.00050 | <0.00025 | <0.00025 |
| | Chromium (Cr)-Total (mg/L) | <0.0025 | <0.0050 | <0.0050 | 0.0031 | <0.0025 |
| | Cobalt (Co)-Total (mg/L) | 0.0068 | 0.0086 | <0.0050 | <0.0025 | <0.0025 |
| | Copper (Cu)-Total (mg/L) | <0.0050 | <0.010 | <0.010 | <0.0050 | <0.0050 |
| | Lead (Pb)-Total (mg/L) | <0.0050 | <0.010 | <0.010 | <0.0050 | <0.0050 |
| | Mercury (Hg)-Total (mg/L) | <0.00020 | <0.00020 | <0.00020 | <0.00020 | <0.00020 |
| | Nickel (Ni)-Total (mg/L) | <0.025 | <0.050 | <0.050 | <0.025 | <0.025 |
| | Zinc (Zn)-Total (mg/L) | 10.9 | 20.8 | 0.816 | 16.4 | <0.0050 |
| Volatile Organic Compounds | Benzene (mg/L) | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 |
| | Ethylbenzene (mg/L) | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 |
| | Methyl t-butyl ether (MTBE) (mg/L) | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | Styrene (mg/L) | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 |
| | Toluene (mg/L) | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | ortho-Xylene (mg/L) | 0.00151 | <0.00050 | <0.00050 | <0.00050 | <0.00050 |
| | meta- & para-Xylene (mg/L) | 0.00177 | <0.00050 | <0.00050 | <0.00050 | <0.00050 |
| | Xylenes (mg/L) | 0.0033 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | Surrogate: 4-Bromofluorobenzene (SS) (%) | 97 | 95 | 93 | 96 | 103 |
| | Surrogate: Fluorobenzene (SS) (%) | 97 | 102 | 94 | 95 | 100 |
| Hydrocarbons | TPH10-32 (mg/L) | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | F1-BTEX (mg/L) | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| | F1 (C6-C10) (mg/L) | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| | Surrogate: 2,4-Dichlorotoluene (SS) (%) | 93 | 109 | 106 | 109 | 98 |
| Polychlorinated Biphenyls | Total Polychlorinated Biphenyls (mg/L) | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | | | | | | |
| | | | | | | |

Reference Information

Additional Comments for Sample Listed:

| Samplenum | Matrix | Report Remarks | Sample Comments |
|--------------------|--------------|------------------|---------------------------------------|
| Methods Listed (if | applicable): | | |
| ALS Test Code | Matrix | Test Description | Analytical Method Reference(Based On) |

EPH-SF-SG-FID-VA Water EPH in Water with Silica gel by GCFID BCMOE EPHsg GCFID

This analysis is carried out using British Columbia Ministry of Water, Land and Air Protection (BC WLAP) methods. Water samples are extracted and analyzed using the BC WLAP method "Extractable Petroleum Hydrocarbons in Water by GC/FID" (version 2.1, July 1999). This procedure involves extraction of the entire water sample with dichloromethane prior to capillary column gas chromatography with flame ionization detection (GC/FID). A silica gel cleanup procedure is applied before GC analysis, which is intended to selectively remove most naturally occurring organics. The silica gel cleanup follows the BC WLAP method "Silica Gel Cleanup of Extractable Petroleum Hydrocarbons" (Draft, October 23, 2003). This analysis is sometimes also referred to as Total Petroleum Hydrocarbons.

F1-BTX-CALC-VA Water F1-Total BTX

CCME CWS PHC TIER 1 (2001)

This analysis is based on the "Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil - Tier 1 Method, Canadian Council of Ministers of the Environment, December 2000." For F1 (C6-C10), the sample undergoes a purge and trap extraction prior to analysis by GC/FID. The F1-BTEX result is calculated as follows:

F1-BTEX: F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).

F1-PT-FID-VA Water CCME F1 By P&T with GCFID EPA SW-846, METHOD 8260

This analysis is based on the "Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil - Tier 1 Method, Canadian Council of Ministers of the Environment, December 2000." For F1 (C6-C10), the sample undergoes a purge and trap extraction prior to analysis by GC/FID.

F1 (C6-C10): Sum of all hydrocarbons that elute between nC6 and nC10.

HARDNESS-CALC-VA Water Hardness APHA 2340B

Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.

HG-TOT-CSR-CVAFS-VA Water Total Mercury in Water by CVAFS (CSR) EPA 245.7

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).

MET-TOT-CSR-ICP-VA Water Total Metals in Water by ICPOES (CSR) EPA SW-846 3005A/6010B

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

MET-TOT-CSR-MS-VA Water Total Metals in Water by ICPMS (CSR) EPA SW-846 3005A/6020A

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

PCB-SF-ECD-VA Water PCB by Extraction with GCECD EPA 3510/8082 Liq-Liq GCECD

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Methods 3510, 3620, 3660, 3665 & 8082, published by the United States Environmental Protection Agency (EPA). The procedure involves a liquid-liquid extraction of the entire water sample using dichloromethane. The extract is then solvent exchanged to hexane followed by one or more of the following clean-up procedures (if required): florisil clean-up, sulphur clean-up and/or sulphuric acid clean-up. The final extract is analysed by capillary column gas chromatography with electron capture detection (GC/ECD).

VOC7-PT-MS-VA

Water

BTEX by Purge Trap GCMS

EPA 8260b, BCMELP CSR Method

Reference Information

Methods Listed (if applicable):

ALS Test Code Matrix Test Description Analytical Method Reference(Based On)

This procedure involves the purge and trap extraction of the sample prior to analysis for specific Volatile Organic Compounds (VOC) by capillary column gas chromatography with mass spectrometric detection (GC/MS). The VOC analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 8260, published by the United States Environmental Protection Agency (EPA). Note: For chlorinated waters certain conditions may cause the formation of trihalomethanes after sample collection. Appropriate chemical treatment of chlorinated waters will prevent trihalomethane formation in the samples. Surrogate recoveries may not be reported in cases where interferences from the sample matrix prevent accurate quantitation.

XYLENES-CALC-VA

Water

CSR VOC7 by MeOH with DI GCMS

CALCULATION

Calculation of Total Xylenes

Total Xylenes is the sum of the concentrations of the ortho, meta, and para Xylene isomers. Results below detection limit (DL) are treated as zero. The DL for Total Xylenes is set to a value no less than the square root of the sum of the squares of the DLs of the individual Xylenes.

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location | Laboratory Definition Code | Laboratory Location |
|--------------------------------|---|----------------------------|---------------------|
| VA | ALS LABORATORY GROUP - VANCOUVER, BC, CANADA | | |

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory. UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be quaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

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| ADDRESS: 300-300 Town Confre Block | EMAIL 1: K boldt@gartnerleercom | PRIORITY SERVICE (1 DAY or ASAP) |
| . 0 | EMAIL 2: | EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS |
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| INVOICE TO: SAME AS REPORT? YES (NO) | INDICATE BOTTLES; FILTERED / PRESERVED (F/P) → → → | |
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| 2 | JOB#: 80297 | |
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| PHONE: 867-963-7508 FAX: 867-963 7501 | QUOTE #. ALSE QOB - 41/ | IATV |
| Lab Work Order# L673739 | | 5] |
| Sample SAMPLE IDENTIFICATION | DATE | THO PARTY OF THE P |
| | The state of the s | |
| (C2-MW-1 | Aug 19 Water | 7 |
| C2-MM-2 | 10 | 7 |
| C2-MW-3 | Ary 19 Water | 7 |
| C2-MW-4 | Act 19 Water | 1 |
| P3-MW-13 | Aug 15 Water | |
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| GUIDELINES / REGULATIONS | SPECIAL INSTRUC | SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS |
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| RELINQUISHED BY: BLACK TIME: | N | SAMPLE CONDITION (lab use only) |
| RELINQUISHED BY: DATE & TIME: | DATE & TIME | TEMPERATURE SAMPLES RECEIVED IN GOOD CONDITION? YES / NO (If no provide details) |
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