



Phyllis Beaulieu
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Date: March 28th 2013

RE: Water License 3BM-COR 0813 Hamlet of Coral Harbour Annual Report 2013

Good afternoon Phyllis,

Please find attached the annual report for the above mentioned license, you will also find attachments with respect to the sample results as well as any other related information pertaining to the license requirements.

Please contact me should you have any questions, comments, or concerns.

Thanks

Jason Tologanak
Regional Director, Kivalliq Region
Community & Government Services
Rankin Inlet, Nunavut
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**ANNUAL REPORT
FOR THE HAMLET OF CORAL HARBOUR, 2012**

YEAR BEING REPORTED: 2012

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water License # 3BM -COR 0813 issued to the Hamlet of Coral Harbour.

- i) - iii) tabular summaries of all data generated under the "Monitoring Program"; monthly and annual quantities in cubic metres of freshwater obtained from all sources; monthly and annual quantities in cubic metres of each and all wastes discharged;

Attached are quantities of water used as reported in our On Tap Water Delivery System and the estimated discharge of sewage waste based on quantities used.

| Month Reported | Quantity of Water Obtained from all sources (litres) | Quantity of Sewage Waste Discharged (Estimated) |
|-----------------------|---|--|
| January 2012 | 3,147,189.50 | Same |
| February 2012 | 2,832,658.30 | Same |
| March 2012 | 3,195,594.90 | Same |
| April 2012 | 2,830,422.30 | Same |
| May 2012 | 2,756,866.30 | Same |
| June 2012 | 2,634,167.40 | Same |
| July 2012 | 2,597,919.60 | Same |
| August 2012 | 2,858,225.00 | Same |
| September 2012 | 2,847,252.70 | Same |
| October 2012 | 2,994,914.40 | Same |
| November 2012 | 3,005,399.00 | Same |
| December 2012 | 3,077,218.00 | Same |
| ANNUAL TOTAL | 34,778,827.40 | 34,778,827.40 |

Note: There is no meter existing at the discharge pipe. Therefore the monthly discharge is considered as equal to the monthly water consumption.

**ANNUAL REPORT
FOR THE HAMLET OF CORAL HARBOUR, 2012**

- iv. a summary of modifications and/or major maintenance work carried out on the Water Supply and Waste Disposal Facilities, including all associated structures and facilities;

The existing Water Truck Fill Station is being updated. CGS has retained a consultant to complete design for optimization by February 2013. The Construction is scheduled starting fall of 2013 with a completion date fall of 2014. No Plan works were scheduled for wastewater treatment and waste management facilities in 2012.

- v. a list of unauthorized discharges and summary of follow-up action taken;

No unauthorized discharge was recorded. The Lagoon berm showed natural exfiltration. Water was noted pooled below the waste metals area.

- vi. a summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year;

No abandonment and restoration work was planned/completed in 2012 and there is no anticipation in the next year.

- vii. a summary of any studies requested by the Board that relate to waste disposal, water use or reclamation, and a brief description of any future studies planned;

 - Arktis Solutions Inc. recently completed feasibility study across Nunavut including Coral Harbour waste management facility. They recommended new guidelines. CGS is planning to implement these new standards and criteria in Coral Harbour future waste management facility.
 - CGS has retained William Engineering Ltd to conduct bathymetric surveys in the existing water source and in the proposed secondary source. This project is scheduled to be completed in 2014.

- viii. any other details on water use or waste disposal requested by the Board by November 1st of the year being reported; and

 - Record water volume extracted
 - Record raw sewage pumped out
 - Monitor sewage lagoon effluent quality at the final point of discharge
 - Monitor leachate quality of the runoff from the solid waste facility

ANNUAL REPORT FOR THE HAMLET OF CORAL HARBOUR, 2012

- ix. updates or revisions to the approved Operation and Maintenance Plans.

The updated O&M manual of the water Truck fill station will be ready in 2014.
Revisions for the O&M manuals for waste water and solid wastes facilities are to be submitted once revised and updated as required.

ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

The Licensee will start extended sampling and testing program for water, wastewater and leachate samples from 2013 to satisfy the monitoring program Part H of the water License.

FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

The Licensee is working closely with CGS to satisfy the requirements of the Water License and the demand of the AANDC inspector including the Compliance Plan following the inspection dated August 9, 2011.

- The Lab Test Results for 2012



L1228282_COA.PDF



L1167507_COA.PDF



Hamlet of Coral Harbour
ATTN: LEONIE PAMEOLIK
PO Box 30
Coral Harbour MB X0C 0C0

Date Received: 24-OCT-12
Report Date: 02-NOV-12 09:47 (MT)
Version: FINAL

Client Phone: 867-925-8867

Certificate of Analysis

Lab Work Order #: L1228282
Project P.O. #: NOT SUBMITTED
Job Reference:
C of C Numbers:
Legal Site Desc:

Paul Nicolas

Paul Nicolas
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|----------|------------|---------|-----------|-----------|-----------|----------|
| L1228282-1 COR 4A | | | | | | | |
| Sampled By: C.P on 19-OCT-12 @ 11:00 | | | | | | | |
| Matrix: WASTE WATER | | | | | | | |
| Miscellaneous Parameters | | | | | | | |
| Ammonia, Total (as N) | 11.7 | DLA | 1.0 | mg/L | | 29-OCT-12 | R2465250 |
| Biochemical Oxygen Demand | 9.8 | | 6.0 | mg/L | | 30-OCT-12 | R2465147 |
| BOD Carbonaceous | <6.0 | | 6.0 | mg/L | | 30-OCT-12 | R2465147 |
| Fecal Coliforms | <3 | | 3 | MPN/100mL | | 28-OCT-12 | R2464339 |
| Oil and Grease, Total | <2.0 | | 2.0 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464113 |
| Phenols (4AAP) | 0.0020 | | 0.0010 | mg/L | 31-OCT-12 | 31-OCT-12 | R2467230 |
| Phosphorus (P)-Total | 0.416 | | 0.010 | mg/L | | 26-OCT-12 | R2463370 |
| Total Kjeldahl Nitrogen | 18.8 | | 0.20 | mg/L | 24-OCT-12 | 29-OCT-12 | R2464798 |
| Total Organic Carbon | 99.6 | | 1.0 | mg/L | | 26-OCT-12 | R2464085 |
| Total Suspended Solids | 21.0 | | 5.0 | mg/L | | 25-OCT-12 | R2463019 |
| Routine Soluble + Metal scan | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 876 | | 20 | mg/L | | 25-OCT-12 | R2462990 |
| Bicarbonate (HCO3) | 1070 | | 24 | mg/L | | 25-OCT-12 | R2462990 |
| Carbonate (CO3) | <12 | | 12 | mg/L | | 25-OCT-12 | R2462990 |
| Hydroxide (OH) | <6.8 | | 6.8 | mg/L | | 25-OCT-12 | R2462990 |
| Chloride by Ion Chromatography | | | | | | | |
| Chloride | 266 | | 2.5 | mg/L | | 25-OCT-12 | R2465025 |
| Conductivity | | | | | | | |
| Conductivity | 2750 | | 20 | umhos/cm | | 25-OCT-12 | R2462990 |
| Hardness Calculated | | | | | | | |
| Hardness (as CaCO3) | 979 | | 0.30 | mg/L | | 31-OCT-12 | |
| Nitrate as N by Ion Chromatography | | | | | | | |
| Nitrate-N | <0.25 | DLM | 0.25 | mg/L | | 25-OCT-12 | R2465025 |
| Nitrate+Nitrite | | | | | | | |
| Nitrate and Nitrite as N | <0.35 | | 0.35 | mg/L | | 30-OCT-12 | |
| Nitrite as N by Ion Chromatography | | | | | | | |
| Nitrite-N | <0.25 | DLM | 0.25 | mg/L | | 25-OCT-12 | R2465025 |
| Sulfate by Ion Chromatography | | | | | | | |
| Sulfate | 366 | | 2.5 | mg/L | | 25-OCT-12 | R2465025 |
| TDS calculated | | | | | | | |
| TDS (Calculated) | 1810 | | 5.0 | mg/L | | 31-OCT-12 | |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.047 | | 0.020 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Antimony (Sb)-Total | 0.0076 | | 0.0010 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Arsenic (As)-Total | 0.0037 | | 0.0010 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Barium (Ba)-Total | 0.0831 | | 0.00050 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Beryllium (Be)-Total | <0.0010 | | 0.0010 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Bismuth (Bi)-Total | <0.00050 | | 0.00050 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Boron (B)-Total | 1.03 | | 0.030 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Cadmium (Cd)-Total | <0.00020 | | 0.00020 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Calcium (Ca)-Total | 306 | | 0.20 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Cesium (Cs)-Total | <0.00050 | | 0.00050 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Chromium (Cr)-Total | 0.0026 | | 0.0020 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Cobalt (Co)-Total | 0.00098 | | 0.00050 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Copper (Cu)-Total | 0.0093 | | 0.0020 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Iron (Fe)-Total | 1.80 | | 0.10 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Lead (Pb)-Total | <0.0010 | | 0.0010 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Lithium (Li)-Total | 0.0413 | | 0.0020 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Magnesium (Mg)-Total | 52.3 | | 0.050 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Manganese (Mn)-Total | 0.390 | | 0.0010 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--------------------------------------|---------|------------|---------|----------|-----------|-----------|----------|
| L1228282-1 COR 4A | | | | | | | |
| Sampled By: C.P on 19-OCT-12 @ 11:00 | | | | | | | |
| Matrix: WASTE WATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Molybdenum (Mo)-Total | 0.00055 | | 0.00050 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Nickel (Ni)-Total | 0.0096 | | 0.0020 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Phosphorus (P)-Total | <0.50 | | 0.50 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Potassium (K)-Total | 64.8 | | 0.10 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Rubidium (Rb)-Total | 0.0262 | | 0.00050 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Selenium (Se)-Total | <0.0050 | | 0.0050 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Silicon (Si)-Total | 7.08 | | 0.30 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Silver (Ag)-Total | <0.0010 | | 0.0010 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Sodium (Na)-Total | 231 | DLA | 0.50 | mg/L | 26-OCT-12 | 30-OCT-12 | R2465652 |
| Strontium (Sr)-Total | 0.891 | | 0.00050 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Tellurium (Te)-Total | <0.0010 | | 0.0010 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Thallium (Tl)-Total | <0.0050 | | 0.0050 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Thorium (Th)-Total | <0.0010 | | 0.0010 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Tin (Sn)-Total | 0.00093 | | 0.00060 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Titanium (Ti)-Total | 0.0094 | | 0.0010 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Tungsten (W)-Total | <0.0020 | | 0.0020 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Uranium (U)-Total | 0.00081 | | 0.00050 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Vanadium (V)-Total | <0.0020 | | 0.0020 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Zinc (Zn)-Total | 0.028 | | 0.020 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| Zirconium (Zr)-Total | 0.0026 | | 0.0010 | mg/L | 26-OCT-12 | 26-OCT-12 | R2464133 |
| pH | | | | | | | |
| pH | 7.31 | | 0.10 | pH units | | 25-OCT-12 | R2462990 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier Key:

| Qualifier | Description |
|-----------|--|
| DLA | Detection Limit Adjusted For required dilution |
| DLM | Detection Limit Adjusted For Sample Matrix Effects |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|--------|--------------------------------------|---|
| ALK-TOT-WP | Water | Alkalinity | APHA 2320B |
| Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO ₃ ⁻ and H ₂ CO ₃ endpoints indicated electrometrically. | | | |
| BOD-CBOD-WP | Water | Carbonaceous BOD | APHA 5210 B-5 day Incub.-O ₂ electrode |
| A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis. | | | |
| BOD-WP | Water | Biochemical Oxygen Demand (BOD) | APHA 5210 B |
| The sample is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at the beginning and end of incubation provides a measure of biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis. Surface waters have a DL of 1 mg/L. Effluents are diluted according to their history and will have a sample DL of 6 mg/L or greater, depending on the dilutions used. | | | |
| C-TOT-ORG-WP | Water | Total Organic Carbon | APHA 5310 B-INSTRUMENTAL-WP |
| This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide. | | | |
| The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved. | | | |
| CL-IC-WP | Water | Chloride by Ion Chromatography | EPA 300.1 (modified) |
| Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors. | | | |
| EC-WP | Water | Conductivity | APHA 2510B |
| Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes. | | | |
| ETL-HARDNESS-TOT-WP | Water | Hardness Calculated | HARDNESS CALCULATED |
| ETL-SOLIDS-CALC-WP | Water | TDS calculated | CALCULATION |
| FC-MPN-WP | Water | Fecal Coliform | APHA 9221A-C |
| The Most Probable Number (MPN) method is based on the Multiple Tube Fermentation technique. The results of examination of replicate tubes and dilutions of a sample are reported after confirmations specific to total coliform, fecal coliform and E. coli are performed. Results are reported in MPN/100 mL for water and MPN/gram for food and solid samples. | | | |
| IONBALANCE-OP05-WP | Water | Ion Balance Calculation No Reporting | APHA 1030E |
| MET-T-MS-WP | Water | Total Metals by ICP-MS | U.S. EPA 200.8-T |
| Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry. | | | |
| N-TOTKJ-WP | Water | Total Kjeldahl Nitrogen | Quickchem method 10-107-06-2-E Lachat |
| Samples are digested with a sulphuric acid solution, cooled, diluted with water, and analyzed for ammonia. Total Kjeldahl nitrogen is the sum of free-ammonia and organic nitrogen compounds which are converted to ammonium sulphate through this digestion process. Analysis is performed by Flow | | | |

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---|--------|------------------------------------|------------------------|
| <p>Injection</p> <p>Analysis (FIA). The pH of the digested sample is raised to a known, basic pH by neutralization with a concentrated buffer solution. This neutralization converts the ammonium cation to ammonia. The ammonia produced is heated with salicylate and hypochlorite to produce blue colour which is proportional to the ammonia concentration.</p> | | | |
| NH3-COL-WP | Water | Ammonia by colour | APHA 4500 NH3 F |
| <p>Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically.</p> | | | |
| NO2+NO3-CALC-WP | Water | Nitrate+Nitrite | CALCULATION |
| NO2-IC-WP | Water | Nitrite as N by Ion Chromatography | EPA 300.1 (modified) |
| <p>Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.</p> | | | |
| NO3-IC-WP | Water | Nitrate as N by Ion Chromatography | EPA 300.1 (modified) |
| <p>Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.</p> | | | |
| OGG-TOT-WT | Water | Oil and Grease, Total | APHA 5520 B |
| <p>Sample is extracted with hexane, extract is then evaporated and the residue is weighed to determine total oil and grease.</p> | | | |
| P-T-COL-WP | Water | Phosphorus, Total | APHA 4500 P PHOSPHORUS |
| <p>This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample.</p> | | | |
| PH-WP | Water | pH | APHA 4500H |
| <p>The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.</p> | | | |
| PHENOLS-4AAP-WT | Water | Phenol (4AAP) | EPA 9066 |
| <p>An automated method is used to distill the sample. The distillate is then buffered to pH 9.4 which reacts with 4AAP and potassium ferricyanide to form a red complex which is measured colorimetrically.</p> | | | |
| SO4-IC-WP | Water | Sulfate by Ion Chromatography | EPA 300.1 (modified) |
| <p>Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.</p> | | | |
| SOLIDS-TOTSUS-WP | Water | Total Suspended Solids | APHA 2540 D (modified) |
| <p>Total suspended solids in aqueous matrices is determined gravimetrically after drying the residue at 103 105 C.</p> | | | |

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |
| WT | ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA |

Chain of Custody Numbers:

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|------------------|--------------------|
|---------------|--------|------------------|--------------------|

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg ww - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



L1228282-COFC

| | | | |
|---------------------------------|---|------|----------|
| Report To | W10622 | | |
| Company: | HAM Let of Coral Harbor | | |
| Contact: | Leanne Pomeroy | | |
| Address: | PO Box 30 Coral Harbor, NY 13060 | | |
| Phone: | 867 925 8867 | Fax: | 925 8233 |
| Invoice To | Same as Report? (circle) Yes or No (if No, provide details) | | |
| Company: | Copy of Invoice with Report? (circle) Yes or No | | |
| Contact: | | | |
| Address: | | | |
| Phone: | Fax: | | |
| Lab Work Order # (lab use only) | | | |

| | |
|------------------------------|------------------|
| Standard: | Other (specify): |
| Select: PDF | Excel |
| Email 1: | Munchel@ainc.com |
| Email 2: | |
| Client / Project Information | |
| Job #: | |
| PO / AFE: | |
| LSD: | |
| Quote #: | |
| ALS Contact: | |
| Sampler: | Cassey Pomeroy |
| Time (hh:mm) | 1100 |
| Date (dd-mm-yy) | 19 10 12 |
| Sample Type | Wastewater |

| Lab Work Order # (lab use only) | ALS Contact: | Sample Identification (This description will appear on the report) | Date (dd-mm-yy) | Time (hh:mm) | Sample Type | 1 | Rootkne | Boil | Water | total mg | loc | oil & gas | fecal C | total N | Number of Containers |
|---------------------------------|--------------|---|--------------------|-----------------|-------------|---|---------|------|-------|----------|-----|-----------|---------|---------|----------------------|
| Cor 41A | | | 19 10 12 | 1100 | Wastewater | X | X | X | X | X | X | X | X | X | 8 |
| Cor 41B | | nil dryed up | | | | | | | | | | | | | |
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L1228282-COFC

Field Log

Name of Sampler:

Casey Poirer

Date of Sampling:

Oct 19/12

Time of Sampling:

1100

Monitoring Station Number:

Cor A

GPS Coordinates:

N 64° 9' 45.5" W 83° 11' 27.6"

Weather Conditions:

Sunny

Preservations used for Samples:

8 bottles Preservations

Other Notes: (any unusual conditions, any deviation from standard procedures, etc.)

A bit Snow and Ice.

Field Log



L1228282-COFC

Name of Sampler: _____

Carey

Date of Sampling: _____

Oct 19/12

Time of Sampling: _____

1120

Monitoring Station Number: _____

Cor 46

GPS Coordinates: _____

N 64° 99 47^{SS} W 83 11 19

Weather Conditions: _____

Sunny

Preservations used for Samples: _____

8 bottles

Other Notes: (any unusual conditions, any deviation from standard procedures, etc.)

*The lake is dry up so
we didn't get samples from it.*



Hamlet of Coral Harbour
ATTN: LEONIE PAMEOLIK
PO Box 30
Coral Harbour MB X0C 0C0

Date Received: 25-JUN-12
Report Date: 25-JUL-12 11:40 (MT)
Version: FINAL

Client Phone: 867-925-8867

Certificate of Analysis

Lab Work Order #: L1167507
Project P.O. #: NOT SUBMITTED
Job Reference: CORAL HARBOUR WASTEWATER MONITORING
C of C Numbers:
Legal Site Desc:

Paul Nicolas

Paul Nicolas
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|----------|------------|---------|-----------|-----------|-----------|----------|
| L1167507-1 CORAL HARBOUR 3 | | | | | | | |
| Sampled By: LP on 20-JUN-12 @ 15:00 | | | | | | | |
| Matrix: WASTEWATER | | | | | | | |
| Miscellaneous Parameters | | | | | | | |
| Ammonia, Total (as N) | 8.7 | DLA | 1.0 | mg/L | | 09-JUL-12 | R2395252 |
| Biochemical Oxygen Demand | 26.0 | | 6.0 | mg/L | 27-JUN-12 | 02-JUL-12 | R2391233 |
| BOD Carbonaceous | 24.6 | | 6.0 | mg/L | 27-JUN-12 | 02-JUL-12 | R2391232 |
| Fecal Coliforms | 1500 | | 3 | MPN/100mL | | 29-JUN-12 | R2391018 |
| Oil and Grease, Total | <2.0 | | 2.0 | mg/L | 27-JUN-12 | 27-JUN-12 | R2390276 |
| Phenols (4AAP) | 0.0220 | | 0.0010 | mg/L | 03-JUL-12 | 03-JUL-12 | R2392373 |
| Phosphorus (P)-Total | 1.51 | | 0.010 | mg/L | | 29-JUN-12 | R2390202 |
| Total Organic Carbon | 81.0 | | 1.0 | mg/L | 05-JUL-12 | 05-JUL-12 | R2393620 |
| Total Suspended Solids | 219 | | 5.0 | mg/L | | 28-JUN-12 | R2392806 |
| Routine Soluble + Metal scan | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 198 | | 20 | mg/L | | 26-JUN-12 | R2389717 |
| Bicarbonate (HCO3) | 242 | | 24 | mg/L | | 26-JUN-12 | R2389717 |
| Carbonate (CO3) | <12 | | 12 | mg/L | | 26-JUN-12 | R2389717 |
| Hydroxide (OH) | <6.8 | | 6.8 | mg/L | | 26-JUN-12 | R2389717 |
| Chloride by Ion Chromatography | | | | | | | |
| Chloride | 20.6 | | 0.50 | mg/L | | 26-JUN-12 | R2390269 |
| Conductivity | | | | | | | |
| Conductivity | 450 | | 20 | umhos/cm | | 26-JUN-12 | R2389717 |
| Hardness Calculated | | | | | | | |
| Hardness (as CaCO3) | 161 | | 0.30 | mg/L | | 28-JUN-12 | |
| Nitrate as N by Ion Chromatography | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 26-JUN-12 | R2390269 |
| Nitrate+Nitrite | | | | | | | |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 25-JUN-12 | |
| Nitrite as N by Ion Chromatography | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 26-JUN-12 | R2390269 |
| Sulfate by Ion Chromatography | | | | | | | |
| Sulfate | 4.48 | | 0.50 | mg/L | | 26-JUN-12 | R2390269 |
| TDS calculated | | | | | | | |
| TDS (Calculated) | 244 | | 5.0 | mg/L | | 29-JUN-12 | |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.049 | | 0.020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Antimony (Sb)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Arsenic (As)-Total | 0.0013 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Barium (Ba)-Total | 0.0198 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Beryllium (Be)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Bismuth (Bi)-Total | <0.00050 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Boron (B)-Total | 0.187 | | 0.030 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Cadmium (Cd)-Total | <0.00020 | | 0.00020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Calcium (Ca)-Total | 58.4 | | 0.20 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Cesium (Cs)-Total | <0.00050 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Chromium (Cr)-Total | <0.0020 | | 0.0020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Cobalt (Co)-Total | 0.00217 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Copper (Cu)-Total | 0.0088 | | 0.0020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Iron (Fe)-Total | 3.04 | | 0.10 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Lead (Pb)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Lithium (Li)-Total | 0.0056 | | 0.0020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Magnesium (Mg)-Total | 3.59 | | 0.050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Manganese (Mn)-Total | 0.522 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Molybdenum (Mo)-Total | <0.00050 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|----------|------------|---------|-----------|-----------|-----------|----------|
| L1167507-1 CORAL HARBOUR 3 | | | | | | | |
| Sampled By: LP on 20-JUN-12 @ 15:00 | | | | | | | |
| Matrix: WASTEWATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Nickel (Ni)-Total | 0.0040 | | 0.0020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Phosphorus (P)-Total | 1.75 | | 0.50 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Potassium (K)-Total | 13.3 | | 0.10 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Rubidium (Rb)-Total | 0.00516 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Selenium (Se)-Total | <0.0050 | | 0.0050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Silicon (Si)-Total | 1.15 | | 0.30 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Silver (Ag)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Sodium (Na)-Total | 24.3 | | 0.050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Strontium (Sr)-Total | 0.0709 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Tellurium (Te)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Thallium (Tl)-Total | <0.0050 | | 0.0050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Thorium (Th)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Tin (Sn)-Total | <0.00060 | | 0.00060 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Titanium (Ti)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Tungsten (W)-Total | <0.0020 | | 0.0020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Uranium (U)-Total | <0.00050 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Vanadium (V)-Total | <0.0020 | | 0.0020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Zinc (Zn)-Total | <0.020 | | 0.020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Zirconium (Zr)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| pH | | | | | | | |
| pH | 7.28 | | 0.10 | pH units | | 26-JUN-12 | R2389717 |
| L1167507-2 CORAL HARBOUR 4 | | | | | | | |
| Sampled By: LP on 20-JUN-12 @ 15:20 | | | | | | | |
| Matrix: WASTEWATER | | | | | | | |
| Miscellaneous Parameters | | | | | | | |
| Ammonia, Total (as N) | 28.4 | DLA | 1.0 | mg/L | | 09-JUL-12 | R2395252 |
| Biochemical Oxygen Demand | 49.0 | | 6.0 | mg/L | 27-JUN-12 | 02-JUL-12 | R2391233 |
| BOD Carbonaceous | 23.1 | | 6.0 | mg/L | 27-JUN-12 | 02-JUL-12 | R2391232 |
| Fecal Coliforms | >110000 | | 3 | MPN/100mL | | 29-JUN-12 | R2391018 |
| Oil and Grease, Total | <2.0 | | 2.0 | mg/L | 27-JUN-12 | 27-JUN-12 | R2390276 |
| Phenols (4AAP) | 0.140 | | 0.0010 | mg/L | 03-JUL-12 | 03-JUL-12 | R2392373 |
| Phosphorus (P)-Total | 4.46 | | 0.010 | mg/L | | 29-JUN-12 | R2390202 |
| Total Organic Carbon | 70.5 | | 1.0 | mg/L | 05-JUL-12 | 05-JUL-12 | R2393620 |
| Total Suspended Solids | 42.0 | | 5.0 | mg/L | | 28-JUN-12 | R2392806 |
| Routine Soluble + Metal scan | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 160 | | 20 | mg/L | | 26-JUN-12 | R2389717 |
| Bicarbonate (HCO3) | 196 | | 24 | mg/L | | 26-JUN-12 | R2389717 |
| Carbonate (CO3) | <12 | | 12 | mg/L | | 26-JUN-12 | R2389717 |
| Hydroxide (OH) | <6.8 | | 6.8 | mg/L | | 26-JUN-12 | R2389717 |
| Chloride by Ion Chromatography | | | | | | | |
| Chloride | 22.0 | | 0.50 | mg/L | | 26-JUN-12 | R2390269 |
| Conductivity | | | | | | | |
| Conductivity | 431 | | 20 | umhos/cm | | 26-JUN-12 | R2389717 |
| Hardness Calculated | | | | | | | |
| Hardness (as CaCO3) | 50.2 | | 0.30 | mg/L | | 28-JUN-12 | |
| Nitrate as N by Ion Chromatography | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 26-JUN-12 | R2390269 |
| Nitrate+Nitrite | | | | | | | |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 25-JUN-12 | |
| Nitrite as N by Ion Chromatography | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|----------|------------|---------|----------|-----------|-----------|----------|
| L1167507-2 CORAL HARBOUR 4 | | | | | | | |
| Sampled By: LP on 20-JUN-12 @ 15:20 | | | | | | | |
| Matrix: WASTEWATER | | | | | | | |
| Nitrite as N by Ion Chromatography | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 26-JUN-12 | R2390269 |
| Sulfate by Ion Chromatography | | | | | | | |
| Sulfate | 9.18 | | 0.50 | mg/L | | 26-JUN-12 | R2390269 |
| TDS calculated | | | | | | | |
| TDS (Calculated) | 178 | | 5.0 | mg/L | | 29-JUN-12 | |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.131 | | 0.020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Antimony (Sb)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Arsenic (As)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Barium (Ba)-Total | 0.00266 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Beryllium (Be)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Bismuth (Bi)-Total | 0.00070 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Boron (B)-Total | 0.175 | | 0.030 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Cadmium (Cd)-Total | <0.00020 | | 0.00020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Calcium (Ca)-Total | 16.7 | | 0.20 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Cesium (Cs)-Total | <0.00050 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Chromium (Cr)-Total | <0.0020 | | 0.0020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Cobalt (Co)-Total | <0.00050 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Copper (Cu)-Total | 0.0225 | | 0.0020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Iron (Fe)-Total | 0.46 | | 0.10 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Lead (Pb)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Lithium (Li)-Total | 0.0092 | | 0.0020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Magnesium (Mg)-Total | 2.06 | | 0.050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Manganese (Mn)-Total | 0.0437 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Molybdenum (Mo)-Total | <0.00050 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Phosphorus (P)-Total | 4.15 | | 0.50 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Potassium (K)-Total | 8.57 | | 0.10 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Rubidium (Rb)-Total | 0.0109 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Selenium (Se)-Total | <0.0050 | | 0.0050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Silicon (Si)-Total | 1.11 | | 0.30 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Silver (Ag)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Sodium (Na)-Total | 22.8 | | 0.050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Strontium (Sr)-Total | 0.0249 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Tellurium (Te)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Thallium (Tl)-Total | <0.0050 | | 0.0050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Thorium (Th)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Tin (Sn)-Total | 0.00089 | | 0.00060 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Titanium (Ti)-Total | 0.0011 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Tungsten (W)-Total | <0.0020 | | 0.0020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Uranium (U)-Total | <0.00050 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Vanadium (V)-Total | <0.0020 | | 0.0020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Zinc (Zn)-Total | 0.036 | | 0.020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Zirconium (Zr)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| pH | | | | | | | |
| pH | 7.16 | | 0.10 | pH units | | 26-JUN-12 | R2389717 |
| L1167507-3 CORAL HARBOUR 6 | | | | | | | |
| Sampled By: LP on 20-JUN-12 @ 14:15 | | | | | | | |
| Matrix: WASTEWATER | | | | | | | |
| BTEX plus F1-F4 | | | | | | | |
| BTX plus F1 by GCMS | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-----------|-----------|-----------|----------|
| L1167507-3 CORAL HARBOUR 6 | | | | | | | |
| Sampled By: LP on 20-JUN-12 @ 14:15 | | | | | | | |
| Matrix: WASTEWATER | | | | | | | |
| BTX plus F1 by GCMS | | | | | | | |
| Benzene | <0.00050 | | 0.00050 | mg/L | | 06-JUL-12 | R2392044 |
| Toluene | <0.0010 | | 0.0010 | mg/L | | 06-JUL-12 | R2392044 |
| Ethyl benzene | <0.00050 | | 0.00050 | mg/L | | 06-JUL-12 | R2392044 |
| o-Xylene | <0.00050 | | 0.00050 | mg/L | | 06-JUL-12 | R2392044 |
| m+p-Xylenes | <0.00050 | | 0.00050 | mg/L | | 06-JUL-12 | R2392044 |
| Xylenes | <0.0015 | | 0.0015 | mg/L | | 06-JUL-12 | R2392044 |
| F1 (C6-C10) | <0.10 | | 0.10 | mg/L | | 06-JUL-12 | R2392044 |
| Surrogate: 4-Bromofluorobenzene (SS) | 108.5 | | 70-130 | % | | 06-JUL-12 | R2392044 |
| CCME Total Hydrocarbons | | | | | | | |
| F1-BTEX | <0.10 | | 0.10 | mg/L | | 09-JUL-12 | |
| F2-Naphth | <0.25 | | 0.25 | mg/L | | 09-JUL-12 | |
| F3-PAH | <0.25 | | 0.25 | mg/L | | 09-JUL-12 | |
| Total Hydrocarbons (C6-C50) | <0.44 | | 0.44 | mg/L | | 09-JUL-12 | |
| F2-F4 PHC method | | | | | | | |
| F2 (C10-C16) | <0.25 | | 0.25 | mg/L | 27-JUN-12 | 29-JUN-12 | R2391034 |
| F3 (C16-C34) | <0.25 | | 0.25 | mg/L | 27-JUN-12 | 29-JUN-12 | R2391034 |
| F4 (C34-C50) | <0.25 | | 0.25 | mg/L | 27-JUN-12 | 29-JUN-12 | R2391034 |
| Surrogate: 2-Bromobenzotrifluoride | 82.0 | | 65-135 | % | 27-JUN-12 | 29-JUN-12 | R2391034 |
| Miscellaneous Parameters | | | | | | | |
| Ammonia, Total (as N) | 1.20 | DLA | 0.10 | mg/L | | 09-JUL-12 | R2395252 |
| Biochemical Oxygen Demand | 21.5 | | 6.0 | mg/L | 27-JUN-12 | 02-JUL-12 | R2391233 |
| BOD Carbonaceous | 19.0 | | 6.0 | mg/L | 27-JUN-12 | 02-JUL-12 | R2391232 |
| Fecal Coliforms | <3 | | 3 | MPN/100mL | | 29-JUN-12 | R2391018 |
| Oil and Grease, Total | <2.0 | | 2.0 | mg/L | 27-JUN-12 | 27-JUN-12 | R2390276 |
| Phenols (4AAP) | <0.0010 | | 0.0010 | mg/L | 03-JUL-12 | 03-JUL-12 | R2392373 |
| Phosphorus (P)-Total | 0.516 | | 0.010 | mg/L | | 29-JUN-12 | R2390202 |
| Total Organic Carbon | 71.5 | | 1.0 | mg/L | 05-JUL-12 | 05-JUL-12 | R2393620 |
| Total Suspended Solids | 7.0 | | 5.0 | mg/L | | 28-JUN-12 | R2392806 |
| Polyaromatic Hydrocarbons (PAHs) | | | | | | | |
| 1-Methyl Naphthalene | <0.000020 | | 0.000020 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| 2-Methyl Naphthalene | <0.000020 | | 0.000020 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Acenaphthene | <0.000020 | | 0.000020 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Acenaphthylene | <0.000020 | | 0.000020 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Anthracene | <0.000010 | | 0.000010 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Acridine | <0.000020 | | 0.000020 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Benzo(a)anthracene | <0.000010 | | 0.000010 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Benzo(a)pyrene | <0.0000050 | | 0.0000050 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Benzo(b&j)fluoranthene | <0.000010 | | 0.000010 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Benzo(g,h,i)perylene | <0.000020 | | 0.000020 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Benzo(k)fluoranthene | <0.000010 | | 0.000010 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Chrysene | <0.000020 | | 0.000020 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Dibenzo(a,h)anthracene | <0.0000050 | | 0.0000050 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Fluoranthene | <0.000020 | | 0.000020 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Fluorene | <0.000020 | | 0.000020 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Indeno(1,2,3-cd)pyrene | <0.000010 | | 0.000010 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Naphthalene | <0.000050 | | 0.000050 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Phenanthrene | <0.000050 | | 0.000050 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Pyrene | <0.000010 | | 0.000010 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Quinoline | <0.000020 | | 0.000020 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| B(a)P Total Potency Equivalent | <0.000030 | | 0.000030 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Surrogate: Acenaphthene d10 | 68.9 | | 50-150 | % | 29-JUN-12 | 04-JUL-12 | R2393064 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|----------|------------|---------|----------|-----------|-----------|----------|
| L1167507-3 CORAL HARBOUR 6 | | | | | | | |
| Sampled By: LP on 20-JUN-12 @ 14:15 | | | | | | | |
| Matrix: WASTEWATER | | | | | | | |
| Polyaromatic Hydrocarbons (PAHs) | | | | | | | |
| Surrogate: Acridine d9 | 88.9 | | 50-150 | % | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Surrogate: Chrysene d12 | 81.0 | | 50-150 | % | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Surrogate: Naphthalene d8 | 50.3 | | 50-150 | % | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Surrogate: Phenanthrene d10 | 86.6 | | 50-150 | % | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Routine Soluble + Metal scan | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO ₃) | 118 | | 20 | mg/L | | 26-JUN-12 | R2389717 |
| Bicarbonate (HCO ₃) | 144 | | 24 | mg/L | | 26-JUN-12 | R2389717 |
| Carbonate (CO ₃) | <12 | | 12 | mg/L | | 26-JUN-12 | R2389717 |
| Hydroxide (OH) | <6.8 | | 6.8 | mg/L | | 26-JUN-12 | R2389717 |
| Chloride by Ion Chromatography | | | | | | | |
| Chloride | 6.32 | | 0.50 | mg/L | | 26-JUN-12 | R2390269 |
| Conductivity | | | | | | | |
| Conductivity | 179 | | 20 | umhos/cm | | 26-JUN-12 | R2389717 |
| Hardness Calculated | | | | | | | |
| Hardness (as CaCO ₃) | 151 | | 0.30 | mg/L | | 28-JUN-12 | |
| Nitrate as N by Ion Chromatography | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 26-JUN-12 | R2390269 |
| Nitrate+Nitrite | | | | | | | |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 25-JUN-12 | |
| Nitrite as N by Ion Chromatography | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 26-JUN-12 | R2390269 |
| Sulfate by Ion Chromatography | | | | | | | |
| Sulfate | 5.59 | | 0.50 | mg/L | | 26-JUN-12 | R2390269 |
| TDS calculated | | | | | | | |
| TDS (Calculated) | 170 | | 5.0 | mg/L | | 24-JUL-12 | |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | <0.020 | | 0.020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Antimony (Sb)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Arsenic (As)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Barium (Ba)-Total | 0.0202 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Beryllium (Be)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Bismuth (Bi)-Total | <0.00050 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Boron (B)-Total | 0.196 | | 0.030 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Cadmium (Cd)-Total | <0.00020 | | 0.00020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Calcium (Ca)-Total | 51.5 | | 0.20 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Cesium (Cs)-Total | <0.00050 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Chromium (Cr)-Total | <0.0020 | | 0.0020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Cobalt (Co)-Total | <0.00050 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Copper (Cu)-Total | <0.0020 | | 0.0020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Iron (Fe)-Total | 1.94 | | 0.10 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Lead (Pb)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Lithium (Li)-Total | 0.0061 | | 0.0020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Magnesium (Mg)-Total | 5.49 | | 0.050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Manganese (Mn)-Total | 0.249 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Molybdenum (Mo)-Total | <0.00050 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Phosphorus (P)-Total | 0.51 | | 0.50 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Potassium (K)-Total | 13.1 | | 0.10 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Rubidium (Rb)-Total | 0.00851 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Selenium (Se)-Total | <0.0050 | | 0.0050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Silicon (Si)-Total | 0.76 | | 0.30 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-----------|-----------|-----------|----------|
| L1167507-3 CORAL HARBOUR 6 | | | | | | | |
| Sampled By: LP on 20-JUN-12 @ 14:15 | | | | | | | |
| Matrix: WASTEWATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Silver (Ag)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Sodium (Na)-Total | 17.4 | | 0.050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Strontium (Sr)-Total | 0.0792 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Tellurium (Te)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Thallium (Tl)-Total | <0.0050 | | 0.0050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Thorium (Th)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Tin (Sn)-Total | <0.00060 | | 0.00060 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Titanium (Ti)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Tungsten (W)-Total | <0.0020 | | 0.0020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Uranium (U)-Total | <0.00050 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Vanadium (V)-Total | <0.0020 | | 0.0020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Zinc (Zn)-Total | <0.020 | | 0.020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Zirconium (Zr)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| pH | | | | | | | |
| pH | 7.67 | | 0.10 | pH units | | 26-JUN-12 | R2389717 |
| L1167507-4 CORAL HARBOUR 7 | | | | | | | |
| Sampled By: LP on 20-JUN-12 @ 14:00 | | | | | | | |
| Matrix: WASTEWATER | | | | | | | |
| BTEX plus F1-F4 | | | | | | | |
| BTX plus F1 by GCMS | | | | | | | |
| Benzene | <0.00050 | | 0.00050 | mg/L | | 06-JUL-12 | R2392044 |
| Toluene | <0.0010 | | 0.0010 | mg/L | | 06-JUL-12 | R2392044 |
| Ethyl benzene | <0.00050 | | 0.00050 | mg/L | | 06-JUL-12 | R2392044 |
| o-Xylene | <0.00050 | | 0.00050 | mg/L | | 06-JUL-12 | R2392044 |
| m+p-Xylenes | <0.00050 | | 0.00050 | mg/L | | 06-JUL-12 | R2392044 |
| Xylenes | <0.0015 | | 0.0015 | mg/L | | 06-JUL-12 | R2392044 |
| F1 (C6-C10) | <0.10 | | 0.10 | mg/L | | 06-JUL-12 | R2392044 |
| Surrogate: 4-Bromofluorobenzene (SS) | 105.5 | | 70-130 | % | | 06-JUL-12 | R2392044 |
| CCME Total Hydrocarbons | | | | | | | |
| F1-BTEX | <0.10 | | 0.10 | mg/L | | 09-JUL-12 | |
| F2-Naphth | <0.25 | | 0.25 | mg/L | | 09-JUL-12 | |
| F3-PAH | <0.25 | | 0.25 | mg/L | | 09-JUL-12 | |
| Total Hydrocarbons (C6-C50) | <0.44 | | 0.44 | mg/L | | 09-JUL-12 | |
| F2-F4 PHC method | | | | | | | |
| F2 (C10-C16) | <0.25 | | 0.25 | mg/L | 27-JUN-12 | 29-JUN-12 | R2391034 |
| F3 (C16-C34) | <0.25 | | 0.25 | mg/L | 27-JUN-12 | 29-JUN-12 | R2391034 |
| F4 (C34-C50) | <0.25 | | 0.25 | mg/L | 27-JUN-12 | 29-JUN-12 | R2391034 |
| Surrogate: 2-Bromobenzotrifluoride | 83.2 | | 65-135 | % | 27-JUN-12 | 29-JUN-12 | R2391034 |
| Miscellaneous Parameters | | | | | | | |
| Ammonia, Total (as N) | 0.103 | | 0.010 | mg/L | | 09-JUL-12 | R2395252 |
| Biochemical Oxygen Demand | <6.0 | | 6.0 | mg/L | 27-JUN-12 | 02-JUL-12 | R2391233 |
| BOD Carbonaceous | <6.0 | | 6.0 | mg/L | 27-JUN-12 | 02-JUL-12 | R2391232 |
| Fecal Coliforms | <3 | | 3 | MPN/100mL | | 29-JUN-12 | R2391018 |
| Oil and Grease, Total | <2.0 | | 2.0 | mg/L | 27-JUN-12 | 27-JUN-12 | R2390276 |
| Phenols (4AAP) | 0.0010 | | 0.0010 | mg/L | 03-JUL-12 | 03-JUL-12 | R2392373 |
| Phosphorus (P)-Total | 0.092 | | 0.010 | mg/L | | 29-JUN-12 | R2390202 |
| Total Organic Carbon | 13.8 | | 1.0 | mg/L | 05-JUL-12 | 05-JUL-12 | R2393620 |
| Total Suspended Solids | <5.0 | | 5.0 | mg/L | | 28-JUN-12 | R2392806 |
| Polyaromatic Hydrocarbons (PAHs) | | | | | | | |
| 1-Methyl Naphthalene | <0.000020 | | 0.000020 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|----------|-----------|-----------|----------|
| L1167507-4 CORAL HARBOUR 7 | | | | | | | |
| Sampled By: LP on 20-JUN-12 @ 14:00 | | | | | | | |
| Matrix: WASTEWATER | | | | | | | |
| Polyaromatic Hydrocarbons (PAHs) | | | | | | | |
| 2-Methyl Naphthalene | <0.000020 | | 0.000020 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Acenaphthene | <0.000020 | | 0.000020 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Acenaphthylene | <0.000020 | | 0.000020 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Anthracene | <0.000010 | | 0.000010 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Acridine | <0.000020 | | 0.000020 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Benzo(a)anthracene | <0.000010 | | 0.000010 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Benzo(a)pyrene | <0.0000050 | | 0.0000050 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Benzo(b&j)fluoranthene | <0.000010 | | 0.000010 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Benzo(g,h,i)perylene | <0.000020 | | 0.000020 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Benzo(k)fluoranthene | <0.000010 | | 0.000010 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Chrysene | <0.000020 | | 0.000020 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Dibenzo(a,h)anthracene | <0.0000050 | | 0.0000050 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Fluoranthene | <0.000020 | | 0.000020 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Fluorene | <0.000020 | | 0.000020 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Indeno(1,2,3-cd)pyrene | <0.000010 | | 0.000010 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Naphthalene | <0.000050 | | 0.000050 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Phenanthrene | <0.000050 | | 0.000050 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Pyrene | <0.000010 | | 0.000010 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Quinoline | <0.000020 | | 0.000020 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| B(a)P Total Potency Equivalent | <0.000030 | | 0.000030 | mg/L | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Surrogate: Acenaphthene d10 | 66.2 | | 50-150 | % | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Surrogate: Acridine d9 | 88.3 | | 50-150 | % | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Surrogate: Chrysene d12 | 91.2 | | 50-150 | % | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Surrogate: Naphthalene d8 | 52.6 | | 50-150 | % | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Surrogate: Phenanthrene d10 | 84.6 | | 50-150 | % | 29-JUN-12 | 04-JUL-12 | R2393064 |
| Routine Soluble + Metal scan | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 62 | | 20 | mg/L | | 26-JUN-12 | R2389717 |
| Bicarbonate (HCO3) | 75 | | 24 | mg/L | | 26-JUN-12 | R2389717 |
| Carbonate (CO3) | <12 | | 12 | mg/L | | 26-JUN-12 | R2389717 |
| Hydroxide (OH) | <6.8 | | 6.8 | mg/L | | 26-JUN-12 | R2389717 |
| Chloride by Ion Chromatography | | | | | | | |
| Chloride | 2.42 | | 0.50 | mg/L | | 26-JUN-12 | R2390269 |
| Conductivity | | | | | | | |
| Conductivity | 157 | | 20 | umhos/cm | | 26-JUN-12 | R2389717 |
| Hardness Calculated | | | | | | | |
| Hardness (as CaCO3) | 80.8 | | 0.30 | mg/L | | 28-JUN-12 | |
| Nitrate as N by Ion Chromatography | | | | | | | |
| Nitrate-N | 0.242 | | 0.050 | mg/L | | 26-JUN-12 | R2390269 |
| Nitrate+Nitrite | | | | | | | |
| Nitrate and Nitrite as N | 0.242 | | 0.071 | mg/L | | 25-JUN-12 | |
| Nitrite as N by Ion Chromatography | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 26-JUN-12 | R2390269 |
| Sulfate by Ion Chromatography | | | | | | | |
| Sulfate | 14.4 | | 0.50 | mg/L | | 26-JUN-12 | R2390269 |
| TDS calculated | | | | | | | |
| TDS (Calculated) | 90.3 | | 5.0 | mg/L | | 29-JUN-12 | |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.028 | | 0.020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Antimony (Sb)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Arsenic (As)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Barium (Ba)-Total | 0.00466 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|-------------------------------------|----------|------------|---------|----------|-----------|-----------|----------|
| L1167507-4 CORAL HARBOUR 7 | | | | | | | |
| Sampled By: LP on 20-JUN-12 @ 14:00 | | | | | | | |
| Matrix: WASTEWATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Beryllium (Be)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Bismuth (Bi)-Total | <0.00050 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Boron (B)-Total | 0.141 | | 0.030 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Cadmium (Cd)-Total | <0.00020 | | 0.00020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Calcium (Ca)-Total | 30.0 | | 0.20 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Cesium (Cs)-Total | <0.00050 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Chromium (Cr)-Total | 0.0033 | | 0.0020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Cobalt (Co)-Total | <0.00050 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Copper (Cu)-Total | <0.0020 | | 0.0020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Iron (Fe)-Total | 0.57 | | 0.10 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Lead (Pb)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Lithium (Li)-Total | 0.0052 | | 0.0020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Magnesium (Mg)-Total | 1.41 | | 0.050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Manganese (Mn)-Total | 0.0723 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Molybdenum (Mo)-Total | <0.00050 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Phosphorus (P)-Total | <0.50 | | 0.50 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Potassium (K)-Total | 2.19 | | 0.10 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Rubidium (Rb)-Total | 0.00176 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Selenium (Se)-Total | <0.0050 | | 0.0050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Silicon (Si)-Total | 0.80 | | 0.30 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Silver (Ag)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Sodium (Na)-Total | 2.75 | | 0.050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Strontium (Sr)-Total | 0.0896 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Tellurium (Te)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Thallium (Tl)-Total | <0.0050 | | 0.0050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Thorium (Th)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Tin (Sn)-Total | <0.00060 | | 0.00060 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Titanium (Ti)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Tungsten (W)-Total | <0.0020 | | 0.0020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Uranium (U)-Total | <0.00050 | | 0.00050 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Vanadium (V)-Total | <0.0020 | | 0.0020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Zinc (Zn)-Total | 0.038 | | 0.020 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| Zirconium (Zr)-Total | <0.0010 | | 0.0010 | mg/L | 27-JUN-12 | 27-JUN-12 | R2389525 |
| pH | | | | | | | |
| pH | 7.81 | | 0.10 | pH units | | 26-JUN-12 | R2389717 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier Key:

| Qualifier | Description |
|-----------|--|
| DLA | Detection Limit Adjusted For required dilution |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|--------|---------------------------------|---|
| ALK-TOT-WP | Water | Alkalinity | APHA 2320B |
| Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO ₃ ⁻ and H ₂ CO ₃ endpoints indicated electrometrically. | | | |
| BOD-CBOD-WP | Water | Carbonaceous BOD | APHA 5210 B-5 day Incub.-O ₂ electrode |
| A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis. | | | |
| BOD-WP | Water | Biochemical Oxygen Demand (BOD) | APHA 5210 B |
| The sample is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at the beginning and end of incubation provides a measure of biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis. Surface waters have a DL of 1 mg/L. Effluents are diluted according to their history and will have a sample DL of 6 mg/L or greater, depending on the dilutions used. | | | |
| BTEXS+F1-HSMS-WP | Water | BTX plus F1 by GCMS | EPA SW846 8260B REV 2 SEPT 1994 |
| The water sample, with added reagents, is heated in a sealed vial to equilibrium. The headspace from the vial is transferred into a gas chromatograph. Target compound concentrations are measured using mass spectrometry detection. | | | |
| CL-IC-WP | Water | Chloride by Ion Chromatography | EPA 300.1 (modified) |
| Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors. | | | |
| EC-WP | Water | Conductivity | APHA 2510B |
| Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes. | | | |
| ETL-HARDNESS-TOT-WP | Water | Hardness Calculated | HARDNESS CALCULATED |
| ETL-SOLIDS-CALC-WP | Water | TDS calculated | CALCULATION |
| F1-F4-CALC-WP | Water | CCME Total Hydrocarbons | CCME CWS-PHC DEC-2000 - PUB# 1310-L |
| Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC. | | | |
| In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons. | | | |
| In samples where BTEX and F1 were analyzed, F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1. | | | |
| In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3. | | | |
| Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range: | | | |
| 1. All extraction and analysis holding times were met. | | | |
| 2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene. | | | |
| 3. Linearity of gasoline response within 15% throughout the calibration range. | | | |
| Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges: | | | |
| 1. All extraction and analysis holding times were met. | | | |
| 2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average. | | | |
| 3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors. | | | |
| 4. Linearity of diesel or motor oil response within 15% throughout the calibration range. | | | |
| F2-F4-WS-WP | Water | F2-F4 PHC method | EPA 3510/8000 |
| This is the determination of the Petroleum Hydrocarbon fractions in water (F2, F3 and F4). A water sample volume of 200 mL in a 250 mL glass amber bottle is shaken with 10 mL hexane for two hours on a wrist action shaker, and then sonicated for 5 minutes. After extraction, the solvent layer is drawn off and analyzed against C10, C16 and C34 standards on a gas chromatograph equipped with a flame ionization detector. | | | |
| FC-MPN-WP | Water | Fecal Coliform | APHA 9221A-C |

The Most Probable Number (MPN) method is based on the Multiple Tube Fermentation technique. The results of examination of replicate tubes and

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|------------------|--------------------|
|---------------|--------|------------------|--------------------|

dilutions of a sample are reported after confirmations specific to total coliform, fecal coliform and E. coli are performed. Results are reported in MPN/100 mL for water and MPN/gram for food and solid samples.

IONBALANCE-OP05-WP Water Ion Balance Calculation No Reporting APHA 1030E

MET-T-MS-WP Water Total Metals by ICP-MS U.S. EPA 200.8-T

Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.

NH3-COL-WP Water Ammonia by colour APHA 4500 NH3 F

Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically.

NO2+NO3-CALC-WP Water Nitrate+Nitrite CALCULATION

NO2-IC-WP Water Nitrite as N by Ion Chromatography EPA 300.1 (modified)

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

NO3-IC-WP Water Nitrate as N by Ion Chromatography EPA 300.1 (modified)

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

OGG-TOT-WT Water Oil and Grease, Total APHA 5520 B

Sample is extracted with hexane, extract is then evaporated and the residue is weighed to determine total oil and grease.

P-T-COL-WP Water Phosphorus, Total APHA 4500 P PHOSPHORUS

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample.

PAH,PANH-WP Water Polyaromatic Hydrocarbons (PAHs) EPA SW 846/8270-GC/MS

Water is spiked with a surrogate spike mix and extracted using solvent extraction techniques. Analysis is performed by GC/MS in the selected ion monitoring (SIM) mode.

PH-WP Water pH APHA 4500H

The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.

PHENOLS-4AAP-WT Water Phenol (4AAP) EPA 9066

An automated method is used to distill the sample. The distillate is then buffered to pH 9.4 which reacts with 4AAP and potassium ferricyanide to form a red complex which is measured colorimetrically.

SO4-IC-WP Water Sulfate by Ion Chromatography EPA 300.1 (modified)

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

SOLIDS-TOTSUS-WP Water Total Suspended Solids APHA 2540 D (modified)

Total suspended solids in aqueous matrices is determined gravimetrically after drying the residue at 103 ± 105 C.

TOC-WT Water Total Organic Carbon APHA 5310B

Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |
| WT | ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA |

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|------------------|--------------------|
|---------------|--------|------------------|--------------------|

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg ww - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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.

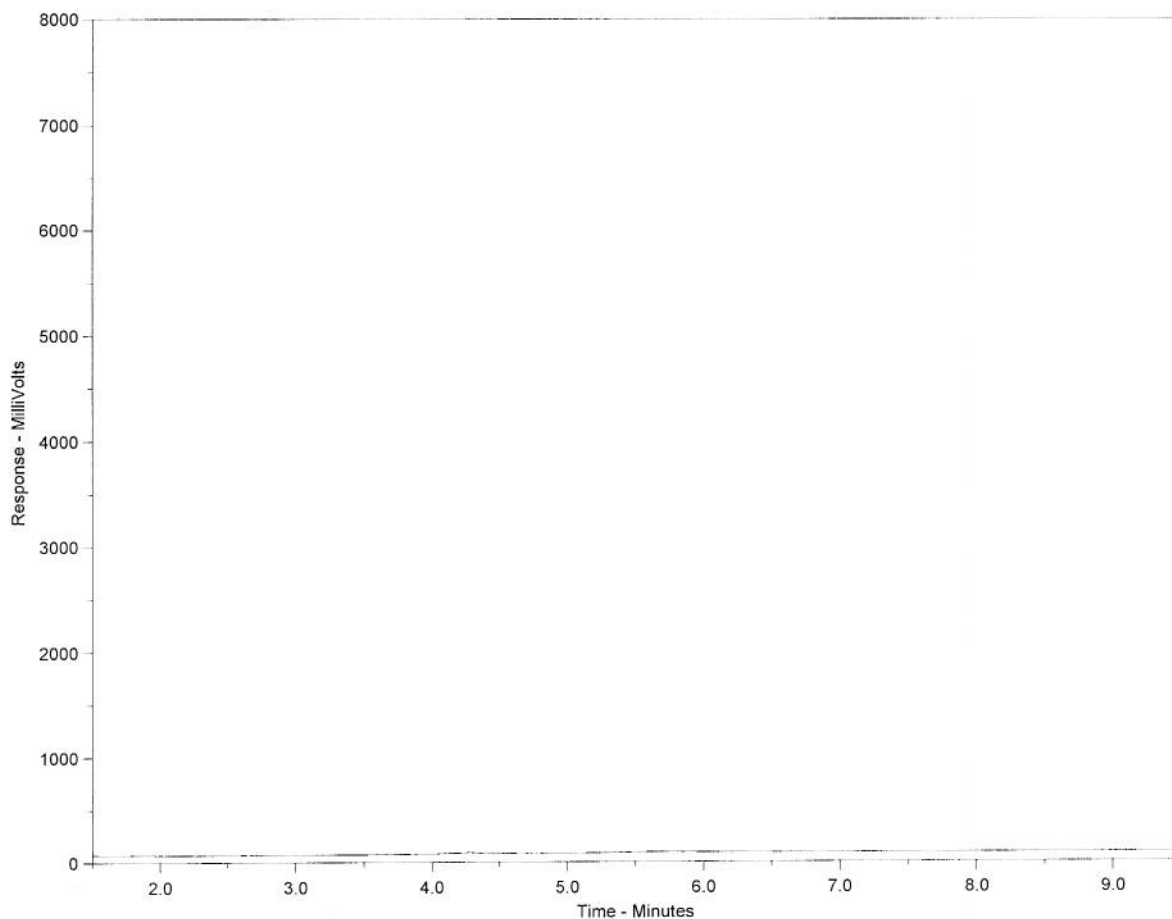
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Hydrocarbon Distribution Report



ALS Sample ID: L1167507-3
Client ID: CORAL HARBOUR 6



<-nC10-----nC16-----nC34-----nC50----->
<-----nC11-----nC30----->
<---Gasoline-----> <-----Heavy Oils----->
|-----Diesel-----|

The Canada Wide Standard Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products as well as a number of specified n-alkane hydrocarbon marker compounds. Comparison of this report with those of reference standards may also assist in characterizing hydrocarbons present in the sample.

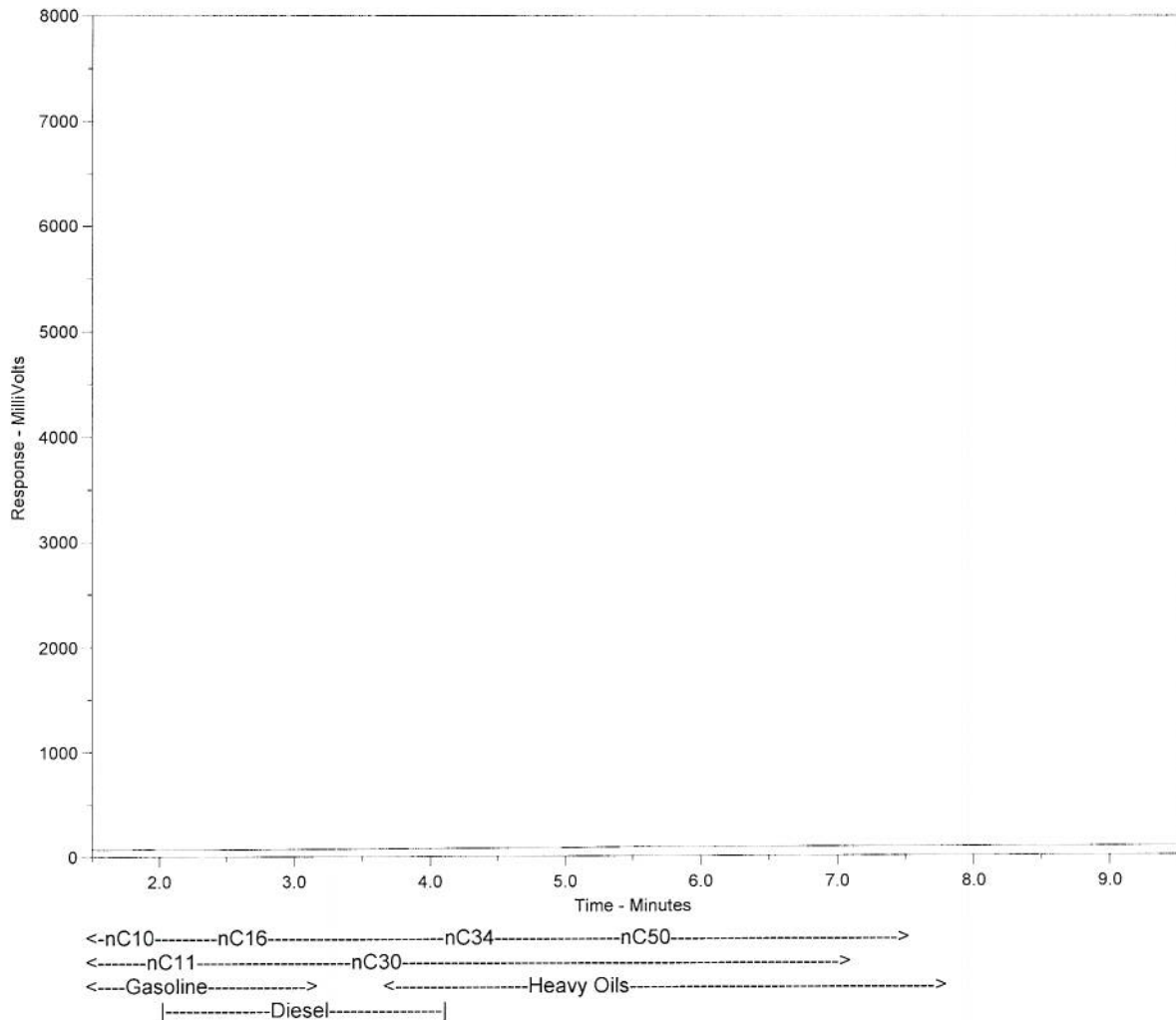
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced with a high temperature GC method that is specific to the Canada-Wide Standard method (December 2007 version). Note that retention times and distribution profiles from reports produced using different GC programs will differ.

Hydrocarbon Distribution Report



ALS Sample ID: L1167507-4
Client ID: CORAL HARBOUR 7



The Canada Wide Standard Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products as well as a number of specified n-alkane hydrocarbon marker compounds. Comparison of this report with those of reference standards may also assist in characterizing hydrocarbons present in the sample.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced with a high temperature GC method that is specific to the Canada-Wide Standard method (December 2007 version). Note that retention times and distribution profiles from reports produced using different GC programs will differ.

