



MOSHER ENGINEERING LTD  
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Date Received: 01-OCT-10  
Report Date: 06-OCT-10 15:42 (MT)  
Version: FINAL

## Certificate of Analysis

Lab Work Order #: L938488  
Project P.O. #: NOT SUBMITTED  
Job Reference: RANKIN FARM 171  
Legal Site Desc:  
C of C Numbers:

Robert S. Kitlar  
Account Manager

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MANITOBA TECHNOLOGY CENTRE LTD. Part of the ALS Group A Campbell Brothers Limited Company

| Sample Details/Parameters            |                       | Result   | Qualifier* | D.L.     | Units    | Extracted | Analyzed  | Batch    |
|--------------------------------------|-----------------------|----------|------------|----------|----------|-----------|-----------|----------|
| L938488-1                            | TANK FARM PROJECT 171 |          |            |          |          |           |           |          |
| Sampled By:                          | CLIENT on 27-SEP-10   |          |            |          |          |           |           |          |
| Matrix:                              | WATER                 |          |            |          |          |           |           |          |
| BTEX                                 |                       |          |            |          |          |           |           |          |
| BTX by GCMS                          |                       |          |            |          |          |           |           |          |
| Benzene                              |                       | <0.00050 |            | 0.00050  | mg/L     |           | 05-OCT-10 | R1488719 |
| Toluene                              |                       | <0.0010  |            | 0.0010   | mg/L     |           | 05-OCT-10 | R1488719 |
| Ethyl benzene                        |                       | <0.00050 |            | 0.00050  | mg/L     |           | 05-OCT-10 | R1488719 |
| o-Xylene                             |                       | <0.0010  | DLM        | 0.0010   | mg/L     |           | 05-OCT-10 | R1488719 |
| m+p-Xylenes                          |                       | <0.00050 |            | 0.00050  | mg/L     |           | 05-OCT-10 | R1488719 |
| Xylenes                              |                       | <0.0015  |            | 0.0015   | mg/L     |           | 05-OCT-10 | R1488719 |
| F1 (C6-C10)                          |                       | <0.10    |            | 0.10     | mg/L     |           | 05-OCT-10 | R1488719 |
| Surrogate: 4-Bromofluorobenzene (SS) |                       | 93       |            | N/A      | %        |           | 05-OCT-10 | R1488719 |
| Single Metal in Water by ICPMS (Dis) |                       |          |            |          |          |           |           |          |
| Dissolved Metals by ICP-MS           |                       |          |            |          |          |           |           |          |
| Lead (Pb)-Dissolved                  |                       | <0.10    | DLA        | 0.000090 | mg/L     | 01-OCT-10 | 05-OCT-10 | R1489584 |
| Miscellaneous Parameters             |                       |          |            |          |          |           |           |          |
| Total Oil and Grease                 |                       | <1.0     |            | 1.0      | mg/L     | 04-OCT-10 | 05-OCT-10 | R1484791 |
| Total Suspended Solids               |                       | <5.0     |            | 5.0      | mg/L     |           | 04-OCT-10 | R1488144 |
| pH                                   |                       | 7.39     |            | 0.10     | pH units |           | 01-OCT-10 | R1486303 |
|                                      |                       |          |            |          |          |           |           |          |

\* 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 |

Test Method References:

| ALS Test Code    | Matrix | Test Description           | Method Reference**              |
|------------------|--------|----------------------------|---------------------------------|
| BTEXS+F1-HSMS-WP | Water  | BTX by GCMS                | EPA SW846 8260B REV 2 SEPT 1994 |
| MET-D-L-MS-WP    | Water  | Dissolved Metals by ICP-MS | U.S. EPA 200.8-DL               |

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.

Dissolved 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 3030B for filtration through a 0.45 um filter and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.

|           |       |                      |                   |
|-----------|-------|----------------------|-------------------|
| OGG-IR-WP | Water | Total Oil and Grease | APHA METHOD 5520C |
| PH-WP     | Water | pH                   | APHA 4500H        |

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.

|                  |       |                        |           |
|------------------|-------|------------------------|-----------|
| SOLIDS-TOTSUS-WP | Water | Total Suspended Solids | APHA 2540 |
|------------------|-------|------------------------|-----------|

The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C.

\*\* 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 LABORATORY GROUP - WINNIPEG, MANITOBA, CANADA |

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 wwt - 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.



L938488

|                                                                                                                                                                                                                                                                                                                                                                               |  |                                                                                                        |  |                                                                                                                            |  |                                                                                                                                                                                                                                                    |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Report To</b><br>Company: <u>Moraine Eng</u><br>Contact: <u>Moraine Eng</u><br>Address: <u>1869 Upper Water Street</u><br><u>Anchorage House Suite AH 202 NS B3J1S9</u><br>Phone: <u>902-429-0272</u> Fax: <u>902-429-7762</u><br>Invoice To: Same as Report? (circle) <u>Yes</u> or No (if No, provide details)<br>Copy of Invoice with Report? (circle) <u>Yes</u> or No |  | <b>Client / Project Information</b><br>Job #: <u>Ran Kin Farm</u> 171<br>PO / AFE:<br>LSD:<br>Quote #: |  | <b>Report Format / Distribution</b><br>Standard: Other (specify):<br>Select: PDF Excel Digital Fax<br>Email 1:<br>Email 2: |  | <b>Service Requested: (Rush subject to availability)</b><br>Regular (Standard Turnaround Times) (Surcharges apply)<br>Priority, Date Req'd:<br>Emergency (1 Business Day) - 100% Surcharge<br>For Emergency < 1 Day, ASAP or Weekend - Contact ALS |  |
| <b>Company:</b><br>Contact: <u>W8516</u><br>Address:<br>Phone:<br>Fax:                                                                                                                                                                                                                                                                                                        |  | <b>ALS Contact:</b><br>Date: <u>27-9-10</u><br>Time: (hh:mm)<br>Sample Type:                           |  | <b>Sampler:</b><br>Date: <u>27-9-10</u><br>Time: (hh:mm)<br>Sample Type:                                                   |  | <b>Analysis Request</b><br>(Indicate Filtered or Preserved, F/P)<br>(Number of Containers)                                                                                                                                                         |  |
| <b>Sample Identification</b><br>(This description will appear on the report)<br><u>TANK FARM project 171</u>                                                                                                                                                                                                                                                                  |  | <b>ALS Contact:</b><br>Date: <u>27-9-10</u><br>Time: (hh:mm)<br>Sample Type:                           |  | <b>Sampler:</b><br>Date: <u>27-9-10</u><br>Time: (hh:mm)<br>Sample Type:                                                   |  | BTX<br>OGG<br>P6-DS<br>PH<br>TSS                                                                                                                                                                                                                   |  |

**Special Instructions / Regulations / Hazardous Details**

*100% Lab use only*

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

|                                                                            |                                                              |                                                                 |                                                                 |
|----------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|
| Date: <u>2009-10-27</u><br>Time: <u>8:00 am</u><br>Received by: <u>Sam</u> | Date: <u>2009-10-27</u><br>Time: <u>2:45</u><br>Verified by: | Date: <u>2009-10-27</u><br>Time: <u>8:00 am</u><br>Observed by: | Date: <u>2009-10-27</u><br>Time: <u>8:00 am</u><br>Observed by: |
|----------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|

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