

## **Racer Trust Lansing- Plant 2**

### **Data Review**

LANSING, MICHIGAN

Volatiles, Semivolatiles, PCBs, Metals and  
Miscellaneous Analyses

SDG# S49840, S49882, S49982 and S50078

Analyses Performed By:  
Merit Laboratories, Inc.  
East Lansing, MI

Report: #14820R  
Review Level: Tier I  
Project: B0064479.2011.21INV

## SUMMARY

This data quality assessment summarizes the review of Sample Delivery Groups (SDGs) # S49840, S49882, S49982 and S50078 for samples collected in association with the Racer Trust Plant 2 Site. The review was conducted as a Tier I evaluation and included review of data package completeness as required under Region III M2 validation. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

| SDG Number | Sample ID              | Lab ID    | Matrix | Sample Collection Date | Parent Sample | Analysis |      |     |     |      |
|------------|------------------------|-----------|--------|------------------------|---------------|----------|------|-----|-----|------|
|            |                        |           |        |                        |               | VOC      | SVOC | PCB | MET | MISC |
| S49840     | P2-MW-4                | S49840.01 | Water  | 08/25/2011             |               | X        | X    | X   | X   |      |
|            | Equipment Blank 2      | S49840.02 | Water  | 08/26/2011             |               | X        | X    | X   | X   |      |
|            | Trip Blank             | S49840.03 | Water  | 08/26/2011             |               | X        |      |     |     |      |
| S49882     | P2-MW-1                | S49882.01 | Water  | 08/29/2011             |               | X        | X    | X   | X   |      |
|            | P2-MW-3                | S49882.02 | Water  | 08/31/2011             |               | X        |      | X   | X   |      |
|            | P2-MW-3 (Filtered)     | S49882.03 | Water  | 08/31/2011             |               | X        |      | X   | X   |      |
|            | P2-SB-20               | S49882.04 | Water  | 08/31/2011             |               | X        | X    | X   | X   |      |
|            | Trip Blank-Merit-Water | S49882.05 | Water  | 08/31/2011             |               | X        |      |     |     |      |
| S49982     | P2-SB-37               | S49982.01 | Water  | 09/06/2011             |               | X        |      | X   |     |      |
|            | P2-SB-6                | S49982.02 | Water  | 09/06/2011             |               | X        | X    |     | X   |      |
|            | P2-MW-2                | S49982.03 | Water  | 09/07/2011             |               |          |      |     | X   |      |
|            | Duplicate              | S49982.04 | Water  | 09/07/2011             | P2-MW-2       |          |      |     | X   |      |
|            | Equipment blank        | S49982.05 | Water  | 09/08/2011             |               | X        | X    | X   | X   |      |
|            | Trip Blank             | S49982.06 | Water  | 09/08/2011             |               | X        |      |     |     |      |
| S50078     | P2-SB-3                | S50078.01 | Water  | 09/16/2011             |               | X        | X    |     |     |      |

## ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

| Items Reviewed  | Reported |     | Performance Acceptable |     | Not Required |
|---|----------|-----|------------------------|-----|--------------|
|   | No       | Yes | No                     | Yes |              |
| 1. Sample receipt condition                             |          | X   |                        | X   |              |
| 2. Requested analyses and sample results                |          | X   |                        | X   |              |
| 3. Master tracking list                                 |          | X   |                        | X   |              |
| 4. Methods of analysis                                  |          | X   |                        | X   |              |
| 5. Reporting limits                                     |          | X   |                        | X   |              |
| 6. Sample collection date                               |          | X   |                        | X   |              |
| 7. Laboratory sample received date                      |          | X   |                        | X   |              |
| 8. Sample preservation verification (as applicable)     |          | X   |                        | X   |              |
| 9. Sample preparation/extraction/analysis dates         |          | X   |                        | X   |              |
| 10. Fully executed Chain-of-Custody (COC) form          |          | X   |                        | X   |              |
| 11. Narrative summary of QA or sample problems provided |          | X   |                        | X   |              |
| 12. Data Package Completeness and Compliance            |          | X   |                        | X   |              |

QA - Quality Assurance

## ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 8260B, 8260 -SIM, 8270C and 8082. All samples in this data set were subjected to M-2 (Tier I) level data validation for organic compounds, as defined in the *USEPA Region III Innovative Approaches to Data Validation (June 1995)*. Validation was performed following the procedures specified in *Region III Modifications to National Functional Guidelines for Organic Data Review (September 1994)* and USEPA National Functional Guidelines of October 1999. Modifications to the procedures were necessary to accommodate method and reporting differences for samples analyzed using non-CLP methods (i.e., USEPA SW-846 methods). The Tier I was completed as defined in the MLC Buick City work plan (August 13, 2010). The quality indicators of this limited data review are included in the checklist.

The quality indicators of this data review were limited to the forms/data supplied by the laboratory which included: holding times, associated blanks, laboratory control samples, matrix spike/matrix spike duplicate samples, field duplicates and surrogate recoveries.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

- U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

- B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

- E The compound was quantitated above the calibration range.

- D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

- J The compound was positively identified; however, the associated numerical value is an estimated concentration only..

- UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

- UL The compound was not detected, quantitation limit is probably higher.

- JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
- UB Compound considered non-detect at the listed value due to associated blank contamination.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- K The compound was positively identified; however, the associated numerical value is an estimated concentration only and the reported value may be biased high. Actual concentration is expected lower.
- L The compound was positively identified; however, the associated numerical value is an estimated concentration only and the reported value may be biased low. Actual concentration is expected to be higher.
  
- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

# VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

## 1. Holding Times

The specified holding times for the following methods are presented in the following table.

| Method                       | Matrix | Holding Time   | Preservation   |
|------------------------------|--------|--|--|
| SW-846 8260<br>and 8260B-SIM | Water  | 14 days from collection to analysis  | Cool to 4°C±2°C;<br>preserved to a pH of<br>less than 2 s.u. |
|                              | Soil   | 48 hours from collection to extraction and 14 days from extraction to analysis | Cool to 4°C±2°C.   |

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

## 2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were detected in the associated QA blanks; however, the associated sample results were greater than the BAL and/or were non-detect. No qualification of the sample results was required.

## 3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

## 4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

A MS/MSD analysis was not performed on a sample location within these SDGs.

## 5. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS/LCSD analysis exhibited recoveries within the control limits.

## 6. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

A field duplicate was not collected for this parameter.

## 7. System Performance and Overall Assessment

The laboratory qualified certain sample results "I" which indicates an internal standard recovery outside the control limit. The sample locations associated with internal standards exhibiting responses outside of the control limits are presented in the following table.

| Sample Locations | Internal Standard | Response |
|------------------|-------------------|----------|
| P2-SB-37         | Chlorobenzene     | >UL      |

AC Acceptable

The criteria used to evaluate the internal standard responses are presented in the following table. In the case of an internal standard deviation, the compounds quantitated under the deviant internal standard are qualified as documented in the table below.

| Control limit                            | Sample Result | Qualification |
|--|---------------|---------------|
| > the upper control limit (UL)           | Non-detect    | No action     |
|  | Detect        | J             |
| < the lower control limit (LL) but > 25% | Non-detect    | UJ            |
|  | Detect        | J             |
| < 25%                                    | Non-detect    | R             |
|  | Detect        | J             |

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

## DATA VALIDATION CHECKLIST FOR VOCs

| VOCs: SW-846 8260                            | Reported |     | Performance Acceptable |     | Not Required |
|--|----------|-----|------------------------|-----|--------------|
|  | No       | Yes | No                     | Yes |              |
| GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS) |          |     |                        |     |              |
| <b>Tier I Validation</b>                     |          |     |                        |     |              |
| Holding times                                |          | X   |                        | X   |              |
| Reporting limits (units)                     |          | X   |                        | X   |              |
| Blanks                                       |          |     |                        |     |              |
| A. Method blanks                             |          | X   |                        | X   |              |
| B. Equipment blanks                          |          | X   |                        | X   |              |
| C. Trip blanks                               |          | X   |                        | X   |              |
| Laboratory Control Sample (LCS)              |          | X   |                        | X   |              |
| Laboratory Control Sample Duplicate(LCSD)    |          | X   |                        | X   |              |
| LCS/LCSD Precision (RPD)                     |          | X   |                        | X   |              |
| Matrix Spike (MS)                            |          |     |                        |     | X            |
| Matrix Spike Duplicate(MSD)                  |          |     |                        |     | X            |
| MS/MSD Precision (RPD)                       |          |     |                        |     | X            |
| Field/Lab Duplicate (RPD)                    |          |     |                        |     | X            |
| Surrogate Spike Recoveries                   |          | X   |                        | X   |              |
| Dilution Factor                              |          | X   |                        | X   |              |
| Moisture Content                             |          | X   |                        | X   |              |

%R    Percent recovery  
 RPD    Relative percent difference  
 %D    Percent difference

# SEMIVOLATILE ORGANIC COMPOUND (VOC) ANALYSES

## 1. Holding Times

The specified holding times for the following methods are presented in the following table.

| Method      | Matrix | Holding Time  | Preservation    |
|-------------|--------|---|-----------------|
| SW-846 8270 | Water  | 7 days from collection to extraction and 40 days from extraction to analysis  | Cool to 4°C±2°C |
|             | Soil   | 14 days from collection to extraction and 40 days from extraction to analysis | Cool to 4°C±2°C |

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

## 2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were detected in the associated QA blanks; however, the associated sample results were greater than the BAL and/or were non-detect. No qualification of the sample results was required.

## 3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

## 4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

A MS/MSD analysis was not performed on a sample location within this SDG.

## 5. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

Sample locations associated with LCS/LCSD analysis exhibiting recoveries outside of the control limits presented in the following table.

| Sample Locations                                     | Compound             | LCS Recovery | LCSD Recovery |
|--|----------------------|--------------|---------------|
| P2-MW-4<br>Equipment Blank 2                         | 4-Chloroaniline      | <LL but >10% | <LL but >10%  |
| P2-MW-1<br>P2-MW-3<br>P2-MW-3 (Filtered)<br>P2-SB-20 | 4-Chloroaniline      | <LL but >10% | <LL but >10%  |
|  | Benzo(g,h,i)perylene | AC           | >UL           |

The criteria used to evaluate the LCS recoveries are presented in the following table. In the case of an LCS deviation, the sample results are qualified as documented in the table below.

| Control Limit                            | Sample Result | Qualification |
|--|---------------|---------------|
| > the upper control limit (UL)           | Non-detect    | No Action     |
|  | Detect        | J             |
| < the lower control limit (LL) but > 10% | Non-detect    | UJ            |
|  | Detect        | J             |
| < 10%                                    | Non-detect    | R             |
|  | Detect        | J             |

Sample locations associated with LCS/LCSD recoveries exhibiting an RPD greater than of the control limit presented in the following table.

| Sample Locations           | Compound             |
|----------------------------|----------------------|
| P2-SB-6<br>Equipment blank | Benzaldehyde         |
|                            | Benzo(g,h,i)perylene |

Additionally, The LCS/LCSD associated with samples P2-MW-4 and Equipment Blank 2 exhibited a RPD outside the control limit for all compounds with the exception of the following compounds: Benzaldehyde, 2-Chlorophenol, Bis (2-chloroethyl) ether, Bis (2-chloroisopropyl) ether, Acetophenone, Hexachloroethane, Nitrobenzene, Naphthalene and Hexachlorobutadiene.

The criteria used to evaluate the RPD between the LCS/LCSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

| Control Limit | Sample Result | Qualification |
|---------------|---------------|---------------|
| > UL          | Non-detect    | UJ            |
|               | Detect        | J             |

## 6. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

A field duplicate was not collected for this parameter.

## 7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

## DATA VALIDATION CHECKLIST FOR SVOCs

| SVOCs: SW-846 8270                           | Reported |     | Performance Acceptable |     | Not Required |
|--|----------|-----|------------------------|-----|--------------|
|  | No       | Yes | No                     | Yes |              |
| GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS) |          |     |                        |     |              |
| <b>Tier I Validation</b>                     |          |     |                        |     |              |
| Holding times                                |          | X   |                        | X   |              |
| Reporting limits (units)                     |          | X   |                        | X   |              |
| Blanks                                       |          |     |                        |     |              |
| D. Method blanks                             |          | X   |                        | X   |              |
| E. Equipment blanks                          |          | X   |                        | X   |              |
| Laboratory Control Sample (LCS)              |          | X   | X                      |     |              |
| Laboratory Control Sample Duplicate(LCSD)    |          | X   | X                      |     |              |
| LCS/LCSD Precision (RPD)                     |          | X   | X                      |     |              |
| Matrix Spike (MS)                            |          |     |                        |     | X            |
| Matrix Spike Duplicate(MSD)                  |          |     |                        |     | X            |
| MS/MSD Precision (RPD)                       |          |     |                        |     | X            |
| Field/Lab Duplicate (RPD)                    |          |     |                        |     | X            |
| Surrogate Spike Recoveries                   |          | X   |                        | X   |              |
| Dilution Factor                              |          | X   |                        | X   |              |
| Moisture Content                             |          | X   |                        | X   |              |

%R - percent recovery, RPD - relative percent difference

## POLYCHLORINATED BIPHENYLS (PCBs) ANALYSES

### 1. Holding Times

The specified holding times for the following methods are presented in the following table.

| Method      | Matrix | Holding Time  | Preservation    |
|-------------|--------|---|-----------------|
| SW-846 8082 | Water  | 7 days from collection to extraction and 40 days from extraction to analysis  | Cool to 4°C±2°C |
|             | Soil   | 14 days from collection to extraction and 40 days from extraction to analysis | Cool to 4°C±2°C |

All samples were analyzed within the specified holding time criteria.

### 2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected in the associated blanks; therefore detected sample results were not associated with blank contamination.

### 3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. PCB analysis requires that one of the two PCB surrogate compounds exhibit recoveries within the laboratory-established acceptance limits.

Sample locations associated with surrogates exhibiting recoveries outside of the control limits presented in the following table.

| Sample Locations | Surrogate            | Recovery |
|------------------|----------------------|----------|
| P2-SB-37         | Tetrachloro-m-xylene | D        |
|                  | Decachlorobiphenyl   | D        |

Diluted (D)

The criteria used to evaluate the surrogate recoveries are presented in the following table. In the case of a surrogate deviation, the sample results are qualified as documented in the table below.

| Control Limit  | Sample Result | Qualification     |
|--|---------------|-------------------|
| > the upper control limit (UL)   | Non-detect    | No Action         |
|  | Detect        | J                 |
| < the lower control limit (LL) but > 10%   | Non-detect    | UJ                |
|  | Detect        | J                 |
| < 10%  | Non-detect    | R                 |
|  | Detect        | J                 |
| One surrogate exhibiting recovery outside the control limits but > 10%                             | Non-detect    | No Action         |
|  | Detect        |                   |
| Surrogates diluted below the calibration curve due to the high concentration of a target compound. | Non-detect    | UJ/J <sup>1</sup> |
|  | Detect        |                   |

A more concentrated analysis was not performed with surrogate compounds within the calibration range; therefore, no determination of extraction efficiency could be made.

#### 4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

A MS/MSD analysis was not performed on a sample location within this SDG.

#### 5. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

#### 6. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

A field duplicate was not collected for this parameter.

## **7. System Performance and Overall Assessment**

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

## DATA VALIDATION CHECKLIST FOR PCBs

| PCBs; SW-846 8082                            | Reported |     | Performance Acceptable |     | Not Required |
|--|----------|-----|------------------------|-----|--------------|
|  | No       | Yes | No                     | Yes |              |
| GAS CHROMATOGRAPHY (GC/ECD)                  |          |     |                        |     |              |
| <b>Tier I Validation</b>                     |          |     |                        |     |              |
| Holding times                                |          | X   |                        | X   |              |
| Reporting limits (units)                     |          | X   |                        | X   |              |
| Blanks                                       |          |     |                        |     |              |
| A. Method blanks                             |          | X   |                        | X   |              |
| B. Equipment blanks                          |          | X   |                        | X   |              |
| Laboratory Control Sample (LCS) %R           |          | X   |                        | X   |              |
| Laboratory Control Sample Duplicate(LCSD) %R |          | X   |                        | X   |              |
| LCS/LCSD Precision (RPD)                     |          | X   |                        | X   |              |
| Matrix Spike (MS) %R                         |          |     |                        |     | X            |
| Matrix Spike Duplicate(MSD) %R               |          |     |                        |     | X            |
| MS/MSD Precision (RPD)                       |          |     |                        |     | X            |
| Field/Lab Duplicate (RPD)                    |          |     |                        |     | X            |
| Surrogate Spike Recoveries                   |          | X   |                        | X   |              |
| Dilution Factor                              |          | X   |                        | X   |              |
| Moisture Content                             |          | X   |                        | X   |              |

%RSD – relative standard deviation, %R - percent recovery, RPD - relative percent difference,  
%D – difference

## INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method 6020 and 7471A. All samples in this data set were subjected to IM-1 (Tier I) level data validation for inorganic compounds, as defined in the *USEPA Region III Innovative Approaches to Data Validation (June 1995)*. Validation was performed following the procedures specified in *Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses (April 1993)* and *USEPA National Functional Guidelines for Inorganic Data Review (July 2002)*. Modifications to the procedures were necessary to accommodate method and reporting differences for samples analyzed using non-CLP methods (i.e., USEPA SW-846 methods). The Tier I was completed as defined in the MLC Buick City work plan (August 13, 2010). The quality indicators of this limited data review are included in the checklist.

The quality indicators of this data review were limited to the forms/data supplied by the laboratory which included: holding times, associated blanks, laboratory control samples, matrix spike/matrix spike duplicate samples, and field duplicates.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

- U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.

- B The reported value was obtained from a reading less than the contract-required detection limit (CRDL), but greater than or equal to the instrument detection limit (IDL).

- Quantitation (Q) Qualifiers

- E The reported value is estimated due to the presence of interference.

- N Spiked sample recovery is not within control limits.

- \* Duplicate analysis is not within control limits.

- Validation Qualifiers

- J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.

- UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

- UL The analyte was not detected, quantitation limit is probably higher.

- JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
- UB Analyte considered non-detect at the listed value due to associated blank contamination.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- K The analyte was positively identified; however, the associated numerical value is an estimated concentration only and the reported value may be biased high. Actual concentration is expected lower.
- L The analyte was positively identified; however, the associated numerical value is an estimated concentration only and the reported value may be biased low. Actual concentration is expected to be higher.
- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

## METALS ANALYSES

### 1. Holding Times

The specified holding times for the following methods are presented in the following table.

| Method      | Matrix | Holding Time                         | Preservation  |
|-------------|--------|--------------------------------------|---|
| SW-846 6020 | Water  | 180 days from collection to analysis | Cooled @ 4°C +/- 2; preserved to a pH of less than 2. |
|             | Soil   | 180 days from collection to analysis | Cooled @ 4°C +/- 2                                    |
| SW-846 7470 | Water  | 28 days from collection to analysis  | Cool to 4°C±2°C; preserved to a pH of less than 2.    |
| SW-846 7471 | Soil   | 28 days from collection to analysis  | Cool to 4°C±2°C.                                      |

All samples were analyzed within the specified holding times.

### 2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the instrument detection limit (IDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All analytes associated with the QA blanks exhibited a concentration less than the IDL, with the exception of the analytes listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (J) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

| Sample Locations | Analytes  | Sample Result                        | Qualification                         |
|------------------|-----------|--------------------------------------|---------------------------------------|
| P2-MW-4          | Beryllium | Detected sample results >RL and <BAL | "UB" at detected sample concentration |
|                  | Thallium  |                                      |                                       |

RL = reporting limit

### 3. Matrix Spike (MS/MSD)/ Matrix Spike Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

### 3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory qualifier "N" will be removed.

All analytes associated with MS/MSD recoveries were within control limits.

### 3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the CRDL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the CRDL, a control limit of one times the CRDL is applied for water matrices and two times the CRDL for soil matrices.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable RPD.

## 4. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

| Sample ID/Duplicate ID | Compound  | Sample Result | Duplicate Result | RPD   |
|------------------------|-----------|---------------|------------------|-------|
| P2-MW-2/<br>Duplicate  | Arsenic   | 0.0327        | 0.0326           | 0.3%  |
|                        | Barium    | 0.237         | 0.235            | 0.8%  |
|                        | Beryllium | 0.0008        | 0.0006           | AC    |
|                        | Boron     | 0.069         | 0.062            | 10.7% |
|                        | Chromium  | 0.058         | 0.059            | 1.7%  |
|                        | Lead      | 0.0046        | 0.0025 U         | AC    |
|                        | Manganese | 0.061         | 0.061            | 0%    |
|                        | Nickel    | 0.032         | 0.031            | 3.2%  |

AC Acceptable  
U Not detected

The calculated RPDs between the parent sample and field duplicate were acceptable.

## 5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

## **6. System Performance and Overall Assessment**

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

## DATA VALIDATION CHECKLIST FOR METAL

| METALS; SW-846 6000   | Reported |     | Performance Acceptable |     | Not Required |
|---|----------|-----|------------------------|-----|--------------|
|   | No       | Yes | No                     | Yes |              |
| Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP) |          |     |                        |     |              |
| <b>Tier I Validation</b>                                      |          |     |                        |     |              |
| Holding Times   |          | X   |                        | X   |              |
| Reporting limits (units)                                      |          | X   |                        | X   |              |
| Blanks  |          |     |                        |     |              |
| A. Instrument Blanks  |          |     |                        |     | X            |
| B. Method Blanks  |          | X   |                        | X   |              |
| C. Rinse Blanks   |          | X   | X                      |     |              |
| Laboratory Control Sample (LCS)                               |          | X   |                        | X   |              |
| Matrix Spike (MS) %R  |          | X   |                        | X   |              |
| Matrix Spike Duplicate (MSD) %R                               |          | X   |                        | X   |              |
| MS/MSD Precision (RPD)  |          | X   |                        | X   |              |
| Field Duplicate (RPD)   |          | X   |                        | X   |              |
| ICP Serial Dilution   |          |     |                        |     | X            |

%R    Percent recovery

RPD    Relative percent difference

VALIDATION PERFORMED BY: Jeffrey L. Davin

SIGNATURE:



DATE: October 10, 2011

PEER REVIEW BY: Dennis Capria

DATE: November 7, 2011

**CORRECTED SAMPLE ANALYSIS DATA SHEETS AND COCs**



# Analytical Laboratory Report

Lab Sample ID: S49840.01  
 Sample Tag: P2-MW-4  
 Collected Date/Time: 08/25/2011 11:50  
 Matrix: Water  
 COC Reference: 16133

Sample Containers

| # | Type          | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---|---------------|-----------------|---------------|-------------------|---------------|
| 1 | 125ml Plastic | HNO3            | Yes           | 4.0               | IR            |
| 3 | 1L Amber      | None            | Yes           | 4.0               | IR            |
| 2 | 40ml Glass    | HCL             | Yes           | 4.0               | IR            |

| Analysis | Results | Units | RL | Method | Run Date/Time | Analyst | CAS # | Flags |
|----------|---------|-------|----|--------|---------------|---------|-------|-------|
|----------|---------|-------|----|--------|---------------|---------|-------|-------|

**Extraction / Prep.**

|                   |           |  |  |       |                |     |  |  |
|-------------------|-----------|--|--|-------|----------------|-----|--|--|
| BNA Extraction    | Completed |  |  | 3510C | 08/29/11 23:38 | EMR |  |  |
| Extraction, PCB   | Completed |  |  | 3510C | 08/30/11 09:08 | ADB |  |  |
| Mercury Digestion | Completed |  |  | 7471A | 08/31/11 12:00 | JRH |  |  |
| Metal Digestion   | Completed |  |  | 3015A | 09/06/11 01:00 | SLR |  |  |

**Metals**

|           |              |      |           |       |                |     |           |  |
|-----------|--------------|------|-----------|-------|----------------|-----|-----------|--|
| Antimony  | Not detected | mg/L | 0.005     | 6020  | 09/06/11 13:54 | SLS | 7440-36-0 |  |
| Arsenic   | 0.0023       | mg/L | 0.0005    | 6020  | 09/06/11 13:54 | SLS | 7440-38-2 |  |
| Barium    | 0.516        | mg/L | 0.005     | 6020  | 09/06/11 13:54 | SLS | 7440-39-3 |  |
| Beryllium | 0.0006       | mg/L | uB 0.0005 | 6020  | 09/06/11 13:54 | SLS | 7440-41-7 |  |
| Boron     | 0.110        | mg/L | 0.005     | 6020  | 09/06/11 13:54 | SLS | 7440-42-8 |  |
| Cadmium   | Not detected | mg/L | 0.0005    | 6020  | 09/06/11 13:54 | SLS | 7440-43-9 |  |
| Chromium  | Not detected | mg/L | 0.005     | 6020  | 09/06/11 13:54 | SLS | 7440-47-3 |  |
| Cobalt    | Not detected | mg/L | 0.005     | 6020  | 09/06/11 13:54 | SLS | 7440-48-4 |  |
| Copper    | Not detected | mg/L | 0.0025    | 6020  | 09/06/11 13:54 | SLS | 7440-50-8 |  |
| Lead      | 0.0178       | mg/L | 0.0025    | 6020  | 09/06/11 13:54 | SLS | 7439-92-1 |  |
| Manganese | 0.118        | mg/L | 0.005     | 6020  | 09/06/11 13:54 | SLS | 7439-96-5 |  |
| Mercury   | Not detected | mg/L | 0.0001    | 7471A | 08/31/11 15:13 | JRT | 7439-97-6 |  |
| Nickel    | Not detected | mg/L | 0.005     | 6020  | 09/06/11 13:54 | SLS | 7440-02-0 |  |
| Selenium  | Not detected | mg/L | 0.005     | 6020  | 09/06/11 13:54 | SLS | 7782-49-2 |  |
| Silver    | Not detected | mg/L | 0.0005    | 6020  | 09/06/11 13:54 | SLS | 7440-22-4 |  |
| Thallium  | 0.0026       | mg/L | uB 0.0005 | 6020  | 09/07/11 12:20 | SLS | 7440-28-0 |  |
| Vanadium  | Not detected | mg/L | 0.0025    | 6020  | 09/06/11 13:54 | SLS | 7440-62-2 |  |
| Zinc      | Not detected | mg/L | 0.005     | 6020  | 09/06/11 13:54 | SLS | 7440-66-6 |  |

**Organics - PCBs/Pesticides**

**TCL PCB List (Column 1)**

|          |              |      |      |      |                |      |            |  |
|----------|--------------|------|------|------|----------------|------|------------|--|
| PCB-1016 | Not detected | ug/L | 0.05 | 8082 | 08/30/11 11:43 | JANB | 12674-11-2 |  |
| PCB-1242 | Not detected | ug/L | 0.05 | 8082 | 08/30/11 11:43 | JANB | 53469-21-9 |  |
| PCB-1221 | Not detected | ug/L | 0.05 | 8082 | 08/30/11 11:43 | JANB | 11104-28-2 |  |
| PCB-1232 | Not detected | ug/L | 0.05 | 8082 | 08/30/11 11:43 | JANB | 11141-16-5 |  |
| PCB-1248 | Not detected | ug/L | 0.05 | 8082 | 08/30/11 11:43 | JANB | 12672-29-6 |  |
| PCB-1254 | Not detected | ug/L | 0.05 | 8082 | 08/30/11 11:43 | JANB | 11097-69-1 |  |
| PCB-1260 | Not detected | ug/L | 0.05 | 8082 | 08/30/11 11:43 | JANB | 11096-82-5 |  |

**TCL PCB List (Column 2)**

|          |              |      |      |      |                |      |            |  |
|----------|--------------|------|------|------|----------------|------|------------|--|
| PCB-1016 | Not detected | ug/L | 0.05 | 8082 | 08/30/11 11:43 | JANB | 12674-11-2 |  |
| PCB-1242 | Not detected | ug/L | 0.05 | 8082 | 08/30/11 11:43 | JANB | 53469-21-9 |  |
| PCB-1221 | Not detected | ug/L | 0.05 | 8082 | 08/30/11 11:43 | JANB | 11104-28-2 |  |
| PCB-1232 | Not detected | ug/L | 0.05 | 8082 | 08/30/11 11:43 | JANB | 11141-16-5 |  |
| PCB-1248 | Not detected | ug/L | 0.05 | 8082 | 08/30/11 11:43 | JANB | 12672-29-6 |  |



# Analytical Laboratory Report

Lab Sample ID: S49840.01 (continued)

Sample Tag: P2-MW-4

| Analysis                                      | Results      | Units | RL   | Method | Run Date/Time  | Analyst | CAS #      | Flags |
|---|--------------|-------|------|--------|----------------|---------|------------|-------|
| <b>Organics - PCBs/Pesticides (continued)</b> |              |       |      |        |                |         |            |       |
| <b>TCL PCB List (Column 2) (continued)</b>    |              |       |      |        |                |         |            |       |
| PCB-1254                                      | Not detected | ug/L  | 0.05 | 8082   | 08/30/11 11:43 | JANB    | 11097-69-1 |       |
| PCB-1260                                      | Not detected | ug/L  | 0.05 | 8082   | 08/30/11 11:43 | JANB    | 11096-82-5 |       |
| <b>Organics - Semi-Volatiles</b>              |              |       |      |        |                |         |            |       |
| 3,3'-Dichlorobenzidine                        | Not detected | ug/L  | 0.05 | 8270C  | 09/09/11 18:44 | PL      | 91-94-1    |       |
| Hexachlorobenzene                             | Not detected | ug/L  | 0.05 | 8270C  | 09/09/11 18:44 | PL      | 118-74-1   |       |
| <b>TCL Semi-Volatile Organics</b>             |              |       |      |        |                |         |            |       |
| Acenaphthene                                  | Not detected | ug/L  | 1 J  | 8270C  | 09/06/11 23:38 | PL      | 83-32-9    |       |
| Acenaphthylene                                | Not detected | ug/L  | 1 J  | 8270C  | 09/06/11 23:38 | PL      | 208-96-8   |       |
| Acetophenone                                  | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 98-86-2    |       |
| Anthracene                                    | Not detected | ug/L  | 1 J  | 8270C  | 09/06/11 23:38 | PL      | 120-12-7   |       |
| Atrazine                                      | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 1912-24-9  |       |
| 1,1'-Biphenyl                                 | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 92-52-4    |       |
| 4-Bromophenyl phenyl ether                    | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 101-55-3   |       |
| di-n-Butyl phthalate                          | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 84-74-2    |       |
| Benzaldehyde                                  | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 100-52-7   |       |
| Benzo(a)anthracene                            | Not detected | ug/L  | 1 J  | 8270C  | 09/06/11 23:38 | PL      | 56-55-3    |       |
| Benzo(a)pyrene                                | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 50-32-8    |       |
| Benzo(b)fluoranthene                          | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 205-99-2   |       |
| Benzo(ghi)perylene                            | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 191-24-2   |       |
| Benzo(k)fluoranthene                          | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 207-08-9   |       |
| Butyl benzyl phthalate                        | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 85-68-7    |       |
| 2-Chloronaphthalene                           | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 91-58-7    |       |
| 2-Chlorophenol                                | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 95-57-8    |       |
| 4-Chloro-3-methylphenol                       | Not detected | ug/L  | 1 J  | 8270C  | 09/06/11 23:38 | PL      | 59-50-7    |       |
| 4-Chloroaniline                               | Not detected | ug/L  | 2    | 8270C  | 09/06/11 23:38 | PL      | 106-47-8   |       |
| 4-Chlorophenyl phenyl ether                   | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 7005-72-3  |       |
| Caprolactam                                   | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 105-60-2   |       |
| Carbazole                                     | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 86-74-8    |       |
| bis(2-Chloroethoxy)methane                    | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 111-91-1   |       |
| bis(2-Chloroethyl)ether                       | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 111-44-4   |       |
| bis(2-Chloroisopropyl)ether                   | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 108-60-1   |       |
| Chrysene                                      | Not detected | ug/L  | 1 J  | 8270C  | 09/06/11 23:38 | PL      | 218-01-9   |       |
| 2,4-Dichlorophenol                            | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 120-83-2   |       |
| 2,4-Dimethylphenol                            | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 105-67-9   |       |
| 2,4-Dinitrophenol                             | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 51-28-5    |       |
| 2,4-Dinitrotoluene                            | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 121-14-2   |       |
| 2,6-Dinitrotoluene                            | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 606-20-2   |       |
| 3,3'-Dichlorobenzidine                        | Not detected | ug/L  | 2    | 8270C  | 09/06/11 23:38 | PL      | 91-94-1    |       |
| 4,6-Dinitro-2-methylphenol                    | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 534-52-1   |       |
| Dibenzo(ah)anthracene                         | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 53-70-3    |       |
| Dibenzofuran                                  | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 132-64-9   |       |
| Diethyl phthalate                             | Not detected | ug/L  | 2    | 8270C  | 09/06/11 23:38 | PL      | 84-66-2    |       |
| Dimethyl phthalate                            | Not detected | ug/L  | 2    | 8270C  | 09/06/11 23:38 | PL      | 131-11-3   |       |
| bis(2-Ethylhexyl)phthalate                    | Not detected | ug/L  | 2    | 8270C  | 09/06/11 23:38 | PL      | 117-81-7   |       |
| Fluoranthene                                  | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 206-44-0   |       |
| Fluorene                                      | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 86-73-7    |       |
| Hexachlorobenzene                             | Not detected | ug/L  | 1    | 8270C  | 09/06/11 23:38 | PL      | 118-74-1   |       |



# Analytical Laboratory Report

Lab Sample ID: S49840.01 (continued)

Sample Tag: P2-MW-4

| Analysis                                      | Results      | Units | RL   | Method      | Run Date/Time  | Analyst        | CAS #      | Flags    |
|---|--------------|-------|------|-------------|----------------|----------------|------------|----------|
| <b>Organics - Semi-Volatiles (continued)</b>  |              |       |      |             |                |                |            |          |
| <b>TCL Semi-Volatile Organics (continued)</b> |              |       |      |             |                |                |            |          |
| Hexachlorobutadiene                           | Not detected | ug/L  | 1    | 8270C       | 09/06/11 23:38 | PL             | 87-68-3    |          |
| Hexachlorocyclopentadiene                     | Not detected | ug/L  | 1    | J           | 8270C          | 09/06/11 23:38 | PL         | 77-47-4  |
| Hexachloroethane                              | Not detected | ug/L  | 1    | 8270C       | 09/06/11 23:38 | PL             | 67-72-1    |          |
| Indeno(1,2,3-cd)pyrene                        | Not detected | ug/L  | 1    | J           | 8270C          | 09/06/11 23:38 | PL         | 193-39-5 |
| Isophorone                                    | Not detected | ug/L  | 1    | 8270C       | 09/06/11 23:38 | PL             | 78-59-1    |          |
| 2-Methylnaphthalene                           | Not detected | ug/L  | 1    | 8270C       | 09/06/11 23:38 | PL             | 91-57-6    |          |
| 2-Methylphenol                                | Not detected | ug/L  | 1    | 8270C       | 09/06/11 23:38 | PL             | 95-48-7    |          |
| 3-, 4-Methylphenol                            | Not detected | ug/L  | 1    | 8270C       | 09/06/11 23:38 | PL             | 3/4-Cresol |          |
| 2-Nitroaniline                                | Not detected | ug/L  | 1    | 8270C       | 09/06/11 23:38 | PL             | 88-74-4    |          |
| 2-Nitrophenol                                 | Not detected | ug/L  | 1    | 8270C       | 09/06/11 23:38 | PL             | 88-75-5    |          |
| 3-Nitroaniline                                | Not detected | ug/L  | 1    | 8270C       | 09/06/11 23:38 | PL             | 99-09-2    |          |
| 4-Nitroaniline                                | Not detected | ug/L  | 1    | 8270C       | 09/06/11 23:38 | PL             | 100-01-6   |          |
| 4-Nitrophenol                                 | Not detected | ug/L  | 1    | 8270C       | 09/06/11 23:38 | PL             | 100-02-7   |          |
| N-Nitrosodi-n-propylamine                     | Not detected | ug/L  | 1    | 8270C       | 09/06/11 23:38 | PL             | 621-64-7   |          |
| N-Nitrosodiphenylamine                        | Not detected | ug/L  | 1    | 8270C       | 09/06/11 23:38 | PL             | 86-30-6    |          |
| Naphthalene                                   | Not detected | ug/L  | 1    | 8270C       | 09/06/11 23:38 | PL             | 91-20-3    |          |
| Nitrobenzene                                  | Not detected | ug/L  | 1    | 8270C       | 09/06/11 23:38 | PL             | 98-95-3    |          |
| di-n-Octyl phthalate                          | Not detected | ug/L  | 1    | J           | 8270C          | 09/06/11 23:38 | PL         | 117-84-0 |
| Pentachlorophenol                             | Not detected | ug/L  | 1    | 8270C       | 09/06/11 23:38 | PL             | 87-86-5    |          |
| Phenanthrene                                  | Not detected | ug/L  | 1    | 8270C       | 09/06/11 23:38 | PL             | 85-01-8    |          |
| Phenol  | Not detected | ug/L  | 1    | 8270C       | 09/06/11 23:38 | PL             | 108-95-2   |          |
| Pyrene  | Not detected | ug/L  | 1    | 8270C       | 09/06/11 23:38 | PL             | 129-00-0   |          |
| 2,4,5-Trichlorophenol                         | Not detected | ug/L  | 1    | 8270C       | 09/06/11 23:38 | PL             | 95-95-4    |          |
| 2,4,6-Trichlorophenol                         | Not detected | ug/L  | 1    | 8270C       | 09/06/11 23:38 | PL             | 88-06-2    |          |
| <b>Organics - Volatiles</b>                   |              |       |      |             |                |                |            |          |
| 1,2-Dibromo-3-chloropropane                   | Not detected | ug/L  | 0.05 | 8260B - SIM | 08/29/11 16:59 | JGH            | 96-12-8    |          |
| 1,2-Dibromoethane                             | Not detected | ug/L  | 0.02 | 8260B - SIM | 08/29/11 16:59 | JGH            | 106-93-4   |          |
| 1,4-Dioxane                                   | 50           | ug/L  | 5    | 8260B - SIM | 08/29/11 16:59 | WAT            | 123-91-1   |          |
| <b>TCL Volatile Organics 8260</b>             |              |       |      |             |                |                |            |          |
| 1,1,2-Trichloro-1,2,2-trifluoroethane         | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:02 | WAT            | 76-13-1    |          |
| Acetone                                       | Not detected | ug/L  | 10   | 8260B       | 08/30/11 18:02 | WAT            | 67-64-1    |          |
| Carbon disulfide                              | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:02 | WAT            | 75-15-0    |          |
| Methyl Acetate                                | Not detected | ug/L  | 10   | 8260B       | 08/30/11 18:02 | WAT            | 79-20-9    |          |
| tert-Methyl butyl ether (MTBE)                | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:02 | WAT            | 1634-04-4  |          |
| 2-Butanone (MEK)                              | Not detected | ug/L  | 10   | 8260B       | 08/30/11 18:02 | WAT            | 78-93-3    |          |
| Dichlorodifluoromethane                       | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:02 | WAT            | 75-71-8    |          |
| Chloromethane                                 | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:02 | WAT            | 74-87-3    |          |
| Vinyl chloride                                | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:02 | WAT            | 75-01-4    |          |
| Bromomethane                                  | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:02 | WAT            | 74-83-9    |          |
| Chloroethane                                  | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:02 | WAT            | 75-00-3    |          |
| Trichlorofluoromethane                        | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:02 | WAT            | 75-69-4    |          |
| 1,1-Dichloroethene                            | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:02 | WAT            | 75-35-4    |          |
| Methylene chloride                            | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:02 | WAT            | 75-09-2    |          |
| trans-1,2-Dichloroethene                      | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:02 | WAT            | 156-60-5   |          |
| 1,1-Dichloroethane                            | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:02 | WAT            | 75-34-3    |          |
| cis-1,2-Dichloroethene                        | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:02 | WAT            | 156-59-2   |          |
| Chloroform                                    | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:02 | WAT            | 67-66-3    |          |



# Analytical Laboratory Report

Lab Sample ID: S49840.01 (continued)

Sample Tag: P2-MW-4

| Analysis                                      | Results      | Units | RL | Method | Run Date/Time  | Analyst | CAS #      | Flags |
|---|--------------|-------|----|--------|----------------|---------|------------|-------|
| <b>Organics - Volatiles (continued)</b>       |              |       |    |        |                |         |            |       |
| <b>TCL Volatile Organics 8260 (continued)</b> |              |       |    |        |                |         |            |       |
| 1,1,1-Trichloroethane                         | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 71-55-6    |       |
| Cyclohexane                                   | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 110-82-7   |       |
| 4-Methyl-2-pentanone (MIBK)                   | Not detected | ug/L  | 10 | 8260B  | 08/30/11 18:02 | WAT     | 108-10-1   |       |
| 2-Hexanone                                    | Not detected | ug/L  | 10 | 8260B  | 08/30/11 18:02 | WAT     | 591-78-6   |       |
| Carbon tetrachloride                          | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 56-23-5    |       |
| Benzene                                       | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 71-43-2    |       |
| 1,2-Dichloroethane                            | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 107-06-2   |       |
| Trichloroethene                               | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 79-01-6    |       |
| 1,2-Dichloropropane                           | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 78-87-5    |       |
| Bromodichloromethane                          | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 75-27-4    |       |
| Methyl cyclohexane                            | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 108-87-2   |       |
| cis-1,3-Dichloropropene                       | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 10061-01-5 |       |
| Toluene                                       | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 108-88-3   |       |
| trans-1,3-Dichloropropene                     | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 10061-02-6 |       |
| 1,1,2-Trichloroethane                         | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 79-00-5    |       |
| Tetrachloroethene                             | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 127-18-4   |       |
| Dibromochloromethane                          | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 124-48-1   |       |
| 1,2-Dibromoethane                             | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 106-93-4   |       |
| Chlorobenzene                                 | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 108-90-7   |       |
| 1,1,2,2-Tetrachloroethane                     | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 79-34-5    |       |
| Ethylbenzene                                  | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 100-41-4   |       |
| p,m-Xylene                                    | Not detected | ug/L  | 2  | 8260B  | 08/30/11 18:02 | WAT     |            |       |
| o-Xylene                                      | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 95-47-6    |       |
| Styrene                                       | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 100-42-5   |       |
| Isopropylbenzene                              | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 98-82-8    |       |
| Bromoform                                     | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 75-25-2    |       |
| 1,3-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 541-73-1   |       |
| 1,4-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 106-46-7   |       |
| 1,2-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 95-50-1    |       |
| 1,2-Dibromo-3-chloropropane                   | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 96-12-8    |       |
| 1,2,4-Trichlorobenzene                        | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:02 | WAT     | 120-82-1   |       |



# Analytical Laboratory Report

Lab Sample ID: S49840.02  
 Sample Tag: Equipment Blank 2  
 Collected Date/Time: 08/26/2011 11:10  
 Matrix: Water  
 COC Reference: 16133

## Sample Containers

| # | Type          | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---|---------------|-----------------|---------------|-------------------|---------------|
| 1 | 125ml Plastic | HNO3            | Yes           | 4.0               | IR            |
| 3 | 1L Amber      | None            | Yes           | 4.0               | IR            |
| 2 | 40ml Glass    | HCL             | Yes           | 4.0               | IR            |

| Analysis | Results | Units | RL | Method | Run Date/Time | Analyst | CAS # | Flags |
|----------|---------|-------|----|--------|---------------|---------|-------|-------|
|----------|---------|-------|----|--------|---------------|---------|-------|-------|

### Extraction / Prep.

|                   |           |  |  |       |                |     |  |  |
|-------------------|-----------|--|--|-------|----------------|-----|--|--|
| BNA Extraction    | Completed |  |  | 3510C | 08/29/11 23:38 | EMR |  |  |
| Extraction, PCB   | Completed |  |  | 3510C | 08/30/11 09:08 | ADB |  |  |
| Mercury Digestion | Completed |  |  | 7471A | 08/31/11 12:00 | JRH |  |  |
| Metal Digestion   | Completed |  |  | 3015A | 09/06/11 01:00 | SLR |  |  |

### Metals

|           |              |      |        |       |                |     |           |  |
|-----------|--------------|------|--------|-------|----------------|-----|-----------|--|
| Antimony  | Not detected | mg/L | 0.005  | 6020  | 09/06/11 13:59 | SLS | 7440-36-0 |  |
| Arsenic   | Not detected | mg/L | 0.0005 | 6020  | 09/06/11 13:59 | SLS | 7440-38-2 |  |
| Barium    | Not detected | mg/L | 0.005  | 6020  | 09/06/11 13:59 | SLS | 7440-39-3 |  |
| Beryllium | 0.0007       | mg/L | 0.0005 | 6020  | 09/06/11 13:59 | SLS | 7440-41-7 |  |
| Boron     | 0.007        | mg/L | 0.005  | 6020  | 09/06/11 13:59 | SLS | 7440-42-8 |  |
| Cadmium   | Not detected | mg/L | 0.0005 | 6020  | 09/06/11 13:59 | SLS | 7440-43-9 |  |
| Chromium  | Not detected | mg/L | 0.005  | 6020  | 09/06/11 13:59 | SLS | 7440-47-3 |  |
| Cobalt    | Not detected | mg/L | 0.005  | 6020  | 09/06/11 13:59 | SLS | 7440-48-4 |  |
| Copper    | Not detected | mg/L | 0.0025 | 6020  | 09/06/11 13:59 | SLS | 7440-50-8 |  |
| Lead      | Not detected | mg/L | 0.0025 | 6020  | 09/06/11 13:59 | SLS | 7439-92-1 |  |
| Manganese | 0.006        | mg/L | 0.005  | 6020  | 09/06/11 13:59 | SLS | 7439-96-5 |  |
| Mercury   | Not detected | mg/L | 0.0001 | 7471A | 08/31/11 15:15 | JRT | 7439-97-6 |  |
| Nickel    | Not detected | mg/L | 0.005  | 6020  | 09/06/11 13:59 | SLS | 7440-02-0 |  |
| Selenium  | Not detected | mg/L | 0.005  | 6020  | 09/06/11 13:59 | SLS | 7782-49-2 |  |
| Silver    | Not detected | mg/L | 0.0005 | 6020  | 09/06/11 13:59 | SLS | 7440-22-4 |  |
| Thallium  | 0.0015       | mg/L | 0.0005 | 6020  | 09/07/11 12:22 | SLS | 7440-28-0 |  |
| Vanadium  | Not detected | mg/L | 0.0025 | 6020  | 09/06/11 13:59 | SLS | 7440-62-2 |  |
| Zinc      | Not detected | mg/L | 0.005  | 6020  | 09/06/11 13:59 | SLS | 7440-66-6 |  |

### Organics - PCBs/Pesticides

#### TCL PCB List (Column 1)

|          |              |      |      |      |                |      |            |  |
|----------|--------------|------|------|------|----------------|------|------------|--|
| PCB-1016 | Not detected | ug/L | 0.05 | 8082 | 08/30/11 11:54 | JANB | 12674-11-2 |  |
| PCB-1242 | Not detected | ug/L | 0.05 | 8082 | 08/30/11 11:54 | JANB | 53469-21-9 |  |
| PCB-1221 | Not detected | ug/L | 0.05 | 8082 | 08/30/11 11:54 | JANB | 11104-28-2 |  |
| PCB-1232 | Not detected | ug/L | 0.05 | 8082 | 08/30/11 11:54 | JANB | 11141-16-5 |  |
| PCB-1248 | Not detected | ug/L | 0.05 | 8082 | 08/30/11 11:54 | JANB | 12672-29-6 |  |
| PCB-1254 | Not detected | ug/L | 0.05 | 8082 | 08/30/11 11:54 | JANB | 11097-69-1 |  |
| PCB-1260 | Not detected | ug/L | 0.05 | 8082 | 08/30/11 11:54 | JANB | 11096-82-5 |  |

#### TCL PCB List (Column 2)

|          |              |      |      |      |                |      |            |  |
|----------|--------------|------|------|------|----------------|------|------------|--|
| PCB-1016 | Not detected | ug/L | 0.05 | 8082 | 08/30/11 11:54 | JANB | 12674-11-2 |  |
| PCB-1242 | Not detected | ug/L | 0.05 | 8082 | 08/30/11 11:54 | JANB | 53469-21-9 |  |
| PCB-1221 | Not detected | ug/L | 0.05 | 8082 | 08/30/11 11:54 | JANB | 11104-28-2 |  |
| PCB-1232 | Not detected | ug/L | 0.05 | 8082 | 08/30/11 11:54 | JANB | 11141-16-5 |  |
| PCB-1248 | Not detected | ug/L | 0.05 | 8082 | 08/30/11 11:54 | JANB | 12672-29-6 |  |



# Analytical Laboratory Report

Lab Sample ID: S49840.02 (continued)  
 Sample Tag: Equipment Blank 2

| Analysis                                      | Results      | Units | RL   | Method | Run Date/Time  | Analyst | CAS #      | Flags |
|---|--------------|-------|------|--------|----------------|---------|------------|-------|
| <b>Organics - PCBs/Pesticides (continued)</b> |              |       |      |        |                |         |            |       |
| <b>TCL PCB List (Column 2) (continued)</b>    |              |       |      |        |                |         |            |       |
| PCB-1254                                      | Not detected | ug/L  | 0.05 | 8082   | 08/30/11 11:54 | JANB    | 11097-69-1 |       |
| PCB-1260                                      | Not detected | ug/L  | 0.05 | 8082   | 08/30/11 11:54 | JANB    | 11096-82-5 |       |
| <b>Organics - Semi-Volatiles</b>              |              |       |      |        |                |         |            |       |
| 3,3'-Dichlorobenzidine                        | Not detected | ug/L  | 0.05 | 8270C  | 09/09/11 19:17 | PL      | 91-94-1    |       |
| Hexachlorobenzene                             | Not detected | ug/L  | 0.05 | 8270C  | 09/09/11 19:17 | PL      | 118-74-1   |       |
| <b>TCL Semi-Volatile Organics</b>             |              |       |      |        |                |         |            |       |
| Acenaphthene                                  | Not detected | ug/L  | 1 J  | 8270C  | 09/07/11 00:10 | PL      | 83-32-9    |       |
| Acenaphthylene                                | Not detected | ug/L  | 1 J  | 8270C  | 09/07/11 00:10 | PL      | 208-96-8   |       |
| Acetophenone                                  | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 98-86-2    |       |
| Anthracene                                    | Not detected | ug/L  | 1 J  | 8270C  | 09/07/11 00:10 | PL      | 120-12-7   |       |
| Atrazine                                      | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 1912-24-9  |       |
| 1,1'-Biphenyl                                 | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 92-52-4    |       |
| 4-Bromophenyl phenyl ether                    | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 101-55-3   |       |
| di-n-Butyl phthalate                          | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 84-74-2    |       |
| Benzaldehyde                                  | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 100-52-7   |       |
| Benzo(a)anthracene                            | Not detected | ug/L  | 1 J  | 8270C  | 09/07/11 00:10 | PL      | 56-55-3    |       |
| Benzo(a)pyrene                                | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 50-32-8    |       |
| Benzo(b)fluoranthene                          | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 205-99-2   |       |
| Benzo(ghi)perylene                            | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 191-24-2   |       |
| Benzo(k)fluoranthene                          | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 207-08-9   |       |
| Butyl benzyl phthalate                        | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 85-68-7    |       |
| 2-Chloronaphthalene                           | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 91-58-7    |       |
| 2-Chlorophenol                                | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 95-57-8    |       |
| 4-Chloro-3-methylphenol                       | Not detected | ug/L  | 1 J  | 8270C  | 09/07/11 00:10 | PL      | 59-50-7    |       |
| 4-Chloroaniline                               | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 106-47-8   |       |
| 4-Chlorophenyl phenyl ether                   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 7005-72-3  |       |
| Caprolactam                                   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 105-60-2   |       |
| Carbazole                                     | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 86-74-8    |       |
| bis(2-Chloroethoxy)methane                    | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 111-91-1   |       |
| bis(2-Chloroethyl)ether                       | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 111-44-4   |       |
| bis(2-Chloroisopropyl)ether                   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 108-60-1   |       |
| Chrysene                                      | Not detected | ug/L  | 1 J  | 8270C  | 09/07/11 00:10 | PL      | 218-01-9   |       |
| 2,4-Dichlorophenol                            | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 120-83-2   |       |
| 2,4-Dimethylphenol                            | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 105-67-9   |       |
| 2,4-Dinitrophenol                             | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 51-28-5    |       |
| 2,4-Dinitrotoluene                            | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 121-14-2   |       |
| 2,6-Dinitrotoluene                            | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 606-20-2   |       |
| 3,3'-Dichlorobenzidine                        | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 91-94-1    |       |
| 4,6-Dinitro-2-methylphenol                    | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 534-52-1   |       |
| Dibenzo(ah)anthracene                         | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 53-70-3    |       |
| Dibenzofuran                                  | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 132-64-9   |       |
| Diethyl phthalate                             | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 84-66-2    |       |
| Dimethyl phthalate                            | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 131-11-3   |       |
| bis(2-Ethylhexyl)phthalate                    | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 117-81-7   |       |
| Fluoranthene                                  | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 206-44-0   |       |
| Fluorene                                      | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 86-73-7    |       |
| Hexachlorobenzene                             | Not detected | ug/L  | 1    | 8270C  | 09/07/11 00:10 | PL      | 118-74-1   |       |



# Analytical Laboratory Report

Lab Sample ID: S49840.02 (continued)

Sample Tag: Equipment Blank 2

| Analysis                                      | Results      | Units | RL   | Method      | Run Date/Time  | Analyst | CAS #      | Flags |
|---|--------------|-------|------|-------------|----------------|---------|------------|-------|
| <b>Organics - Semi-Volatiles (continued)</b>  |              |       |      |             |                |         |            |       |
| <b>TCL Semi-Volatile Organics (continued)</b> |              |       |      |             |                |         |            |       |
| Hexachlorobutadiene                           | Not detected | ug/L  | 1    | 8270C       | 09/07/11 00:10 | PL      | 87-68-3    |       |
| Hexachlorocyclopentadiene                     | Not detected | ug/L  | 1    | 8270C       | 09/07/11 00:10 | PL      | 77-47-4    | J     |
| Hexachloroethane                              | Not detected | ug/L  | 1    | 8270C       | 09/07/11 00:10 | PL      | 67-72-1    |       |
| Indeno(1,2,3-cd)pyrene                        | Not detected | ug/L  | 1    | 8270C       | 09/07/11 00:10 | PL      | 193-39-5   | J     |
| Isophorone                                    | Not detected | ug/L  | 1    | 8270C       | 09/07/11 00:10 | PL      | 78-59-1    |       |
| 2-Methylnaphthalene                           | Not detected | ug/L  | 1    | 8270C       | 09/07/11 00:10 | PL      | 91-57-6    |       |
| 2-Methylphenol                                | Not detected | ug/L  | 1    | 8270C       | 09/07/11 00:10 | PL      | 95-48-7    |       |
| 3-, 4-Methylphenol                            | Not detected | ug/L  | 1    | 8270C       | 09/07/11 00:10 | PL      | 3/4-Cresol |       |
| 2-Nitroaniline                                | Not detected | ug/L  | 1    | 8270C       | 09/07/11 00:10 | PL      | 88-74-4    |       |
| 2-Nitrophenol                                 | Not detected | ug/L  | 1    | 8270C       | 09/07/11 00:10 | PL      | 88-75-5    |       |
| 3-Nitroaniline                                | Not detected | ug/L  | 1    | 8270C       | 09/07/11 00:10 | PL      | 99-09-2    |       |
| 4-Nitroaniline                                | Not detected | ug/L  | 1    | 8270C       | 09/07/11 00:10 | PL      | 100-01-6   |       |
| 4-Nitrophenol                                 | Not detected | ug/L  | 1    | 8270C       | 09/07/11 00:10 | PL      | 100-02-7   |       |
| N-Nitrosodi-n-propylamine                     | Not detected | ug/L  | 1    | 8270C       | 09/07/11 00:10 | PL      | 621-64-7   |       |
| N-Nitrosodiphenylamine                        | Not detected | ug/L  | 1    | 8270C       | 09/07/11 00:10 | PL      | 86-30-6    |       |
| Naphthalene                                   | Not detected | ug/L  | 1    | 8270C       | 09/07/11 00:10 | PL      | 91-20-3    |       |
| Nitrobenzene                                  | Not detected | ug/L  | 1    | 8270C       | 09/07/11 00:10 | PL      | 98-95-3    |       |
| di-n-Octyl phthalate                          | Not detected | ug/L  | 1    | 8270C       | 09/07/11 00:10 | PL      | 117-84-0   | J     |
| Pentachlorophenol                             | Not detected | ug/L  | 1    | 8270C       | 09/07/11 00:10 | PL      | 87-86-5    |       |
| Phenanthrene                                  | Not detected | ug/L  | 1    | 8270C       | 09/07/11 00:10 | PL      | 85-01-8    |       |
| Phenol  | Not detected | ug/L  | 1    | 8270C       | 09/07/11 00:10 | PL      | 108-95-2   |       |
| Pyrene  | Not detected | ug/L  | 1    | 8270C       | 09/07/11 00:10 | PL      | 129-00-0   |       |
| 2,4,5-Trichlorophenol                         | Not detected | ug/L  | 1    | 8270C       | 09/07/11 00:10 | PL      | 95-95-4    |       |
| 2,4,6-Trichlorophenol                         | Not detected | ug/L  | 1    | 8270C       | 09/07/11 00:10 | PL      | 88-06-2    |       |
| <b>Organics - Volatiles</b>                   |              |       |      |             |                |         |            |       |
| 1,2-Dibromo-3-chloropropane                   | Not detected | ug/L  | 0.05 | 8260B - SIM | 08/29/11 17:18 | JGH     | 96-12-8    |       |
| 1,2-Dibromoethane                             | Not detected | ug/L  | 0.02 | 8260B - SIM | 08/29/11 17:18 | JGH     | 106-93-4   |       |
| 1,4-Dioxane                                   | Not detected | ug/L  | 5    | 8260B - SIM | 08/29/11 17:18 | WAT     | 123-91-1   |       |
| <b>TCL Volatile Organics 8260</b>             |              |       |      |             |                |         |            |       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane         | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:20 | WAT     | 76-13-1    |       |
| Acetone                                       | Not detected | ug/L  | 10   | 8260B       | 08/30/11 18:20 | WAT     | 67-64-1    |       |
| Carbon disulfide                              | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:20 | WAT     | 75-15-0    |       |
| Methyl Acetate                                | Not detected | ug/L  | 10   | 8260B       | 08/30/11 18:20 | WAT     | 79-20-9    |       |
| tert-Methyl butyl ether (MTBE)                | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:20 | WAT     | 1634-04-4  |       |
| 2-Butanone (MEK)                              | Not detected | ug/L  | 10   | 8260B       | 08/30/11 18:20 | WAT     | 78-93-3    |       |
| Dichlorodifluoromethane                       | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:20 | WAT     | 75-71-8    |       |
| Chloromethane                                 | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:20 | WAT     | 74-87-3    |       |
| Vinyl chloride                                | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:20 | WAT     | 75-01-4    |       |
| Bromomethane                                  | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:20 | WAT     | 74-83-9    |       |
| Chloroethane                                  | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:20 | WAT     | 75-00-3    |       |
| Trichlorofluoromethane                        | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:20 | WAT     | 75-69-4    |       |
| 1,1-Dichloroethene                            | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:20 | WAT     | 75-35-4    |       |
| Methylene chloride                            | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:20 | WAT     | 75-09-2    |       |
| trans-1,2-Dichloroethene                      | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:20 | WAT     | 156-60-5   |       |
| 1,1-Dichloroethane                            | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:20 | WAT     | 75-34-3    |       |
| cis-1,2-Dichloroethene                        | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:20 | WAT     | 156-59-2   |       |
| Chloroform                                    | Not detected | ug/L  | 1    | 8260B       | 08/30/11 18:20 | WAT     | 67-66-3    |       |



# Analytical Laboratory Report

Lab Sample ID: S49840.02 (continued)

Sample Tag: Equipment Blank 2

| Analysis                                      | Results      | Units | RL | Method | Run Date/Time  | Analyst | CAS #      | Flags |
|---|--------------|-------|----|--------|----------------|---------|------------|-------|
| <b>Organics - Volatiles (continued)</b>       |              |       |    |        |                |         |            |       |
| <b>TCL Volatile Organics 8260 (continued)</b> |              |       |    |        |                |         |            |       |
| 1,1,1-Trichloroethane                         | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 71-55-6    |       |
| Cyclohexane                                   | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 110-82-7   |       |
| 4-Methyl-2-pentanone (MIBK)                   | Not detected | ug/L  | 10 | 8260B  | 08/30/11 18:20 | WAT     | 108-10-1   |       |
| 2-Hexanone                                    | Not detected | ug/L  | 10 | 8260B  | 08/30/11 18:20 | WAT     | 591-78-6   |       |
| Carbon tetrachloride                          | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 56-23-5    |       |
| Benzene                                       | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 71-43-2    |       |
| 1,2-Dichloroethane                            | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 107-06-2   |       |
| Trichloroethene                               | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 79-01-6    |       |
| 1,2-Dichloropropane                           | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 78-87-5    |       |
| Bromodichloromethane                          | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 75-27-4    |       |
| Methyl cyclohexane                            | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 108-87-2   |       |
| cis-1,3-Dichloropropene                       | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 10061-01-5 |       |
| Toluene                                       | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 108-88-3   |       |
| trans-1,3-Dichloropropene                     | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 10061-02-6 |       |
| 1,1,2-Trichloroethane                         | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 79-00-5    |       |
| Tetrachloroethene                             | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 127-18-4   |       |
| Dibromochloromethane                          | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 124-48-1   |       |
| 1,2-Dibromoethane                             | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 106-93-4   |       |
| Chlorobenzene                                 | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 108-90-7   |       |
| 1,1,2,2-Tetrachloroethane                     | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 79-34-5    |       |
| Ethylbenzene                                  | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 100-41-4   |       |
| p,m-Xylene                                    | Not detected | ug/L  | 2  | 8260B  | 08/30/11 18:20 | WAT     |            |       |
| o-Xylene                                      | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 95-47-6    |       |
| Styrene                                       | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 100-42-5   |       |
| Isopropylbenzene                              | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 98-82-8    |       |
| Bromoform                                     | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 75-25-2    |       |
| 1,3-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 541-73-1   |       |
| 1,4-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 106-46-7   |       |
| 1,2-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 95-50-1    |       |
| 1,2-Dibromo-3-chloropropane                   | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 96-12-8    |       |
| 1,2,4-Trichlorobenzene                        | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:20 | WAT     | 120-82-1   |       |



# Analytical Laboratory Report

Lab Sample ID: S49840.03  
Sample Tag: Trip Blank  
Collected Date/Time: 08/26/2011 15:00  
Matrix: Water  
COC Reference: 16132

## Sample Containers

| # | Type       | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---|------------|-----------------|---------------|-------------------|---------------|
| 1 | 40ml Glass | HCL             | Yes           | 4.0               | IR            |

| Analysis                    | Results      | Units | RL   | Method      | Run Date/Time  | Analyst | CAS #    | Flags |
|-----------------------------|--------------|-------|------|-------------|----------------|---------|----------|-------|
| <b>Organics - Volatiles</b> |              |       |      |             |                |         |          |       |
| 1,2-Dibromo-3-chloropropane | Not detected | ug/L  | 0.05 | 8260B - SIM | 08/29/11 17:36 | JGH     | 96-12-8  |       |
| 1,2-Dibromoethane           | Not detected | ug/L  | 0.02 | 8260B - SIM | 08/29/11 17:36 | JGH     | 106-93-4 |       |
| 1,4-Dioxane                 | Not detected | ug/L  | 5    | 8260B - SIM | 08/29/11 17:36 | WAT     | 123-91-1 |       |

## TCL Volatile Organics 8260

|                                       |              |      |    |       |                |     |            |  |
|---------------------------------------|--------------|------|----|-------|----------------|-----|------------|--|
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 76-13-1    |  |
| Acetone                               | Not detected | ug/L | 10 | 8260B | 08/30/11 18:38 | WAT | 67-64-1    |  |
| Carbon disulfide                      | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 75-15-0    |  |
| Methyl Acetate                        | Not detected | ug/L | 10 | 8260B | 08/30/11 18:38 | WAT | 79-20-9    |  |
| tert-Methyl butyl ether (MTBE)        | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 1634-04-4  |  |
| 2-Butanone (MEK)                      | Not detected | ug/L | 10 | 8260B | 08/30/11 18:38 | WAT | 78-93-3    |  |
| Dichlorodifluoromethane               | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 75-71-8    |  |
| Chloromethane                         | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 74-87-3    |  |
| Vinyl chloride                        | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 75-01-4    |  |
| Bromomethane                          | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 74-83-9    |  |
| Chloroethane                          | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 75-00-3    |  |
| Trichlorofluoromethane                | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 75-69-4    |  |
| 1,1-Dichloroethene                    | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 75-35-4    |  |
| Methylene chloride                    | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 75-09-2    |  |
| trans-1,2-Dichloroethene              | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 156-60-5   |  |
| 1,1-Dichloroethane                    | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 75-34-3    |  |
| cis-1,2-Dichloroethene                | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 156-59-2   |  |
| Chloroform                            | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 67-66-3    |  |
| 1,1,1-Trichloroethane                 | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 71-55-6    |  |
| Cyclohexane                           | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 110-82-7   |  |
| 4-Methyl-2-pentanone (MIBK)           | Not detected | ug/L | 10 | 8260B | 08/30/11 18:38 | WAT | 108-10-1   |  |
| 2-Hexanone                            | Not detected | ug/L | 10 | 8260B | 08/30/11 18:38 | WAT | 591-78-6   |  |
| Carbon tetrachloride                  | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 56-23-5    |  |
| Benzene                               | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 71-43-2    |  |
| 1,2-Dichloroethane                    | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 107-06-2   |  |
| Trichloroethene                       | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 79-01-6    |  |
| 1,2-Dichloropropane                   | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 78-87-5    |  |
| Bromodichloromethane                  | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 75-27-4    |  |
| Methyl cyclohexane                    | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 108-87-2   |  |
| cis-1,3-Dichloropropene               | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 10061-01-5 |  |
| Toluene                               | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 108-88-3   |  |
| trans-1,3-Dichloropropene             | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 10061-02-6 |  |
| 1,1,2-Trichloroethane                 | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 79-00-5    |  |
| Tetrachloroethene                     | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 127-18-4   |  |
| Dibromochloromethane                  | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 124-48-1   |  |
| 1,2-Dibromoethane                     | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 106-93-4   |  |
| Chlorobenzene                         | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 108-90-7   |  |
| 1,1,2,2-Tetrachloroethane             | Not detected | ug/L | 1  | 8260B | 08/30/11 18:38 | WAT | 79-34-5    |  |



# Analytical Laboratory Report

Lab Sample ID: S49840.03 (continued)

Sample Tag: Trip Blank

| Analysis                                      | Results      | Units | RL | Method | Run Date/Time  | Analyst | CAS #    | Flags |
|---|--------------|-------|----|--------|----------------|---------|----------|-------|
| <b>Organics - Volatiles (continued)</b>       |              |       |    |        |                |         |          |       |
| <b>TCL Volatile Organics 8260 (continued)</b> |              |       |    |        |                |         |          |       |
| Ethylbenzene                                  | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:38 | WAT     | 100-41-4 |       |
| p,m-Xylene                                    | Not detected | ug/L  | 2  | 8260B  | 08/30/11 18:38 | WAT     |          |       |
| o-Xylene                                      | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:38 | WAT     | 95-47-6  |       |
| Styrene                                       | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:38 | WAT     | 100-42-5 |       |
| Isopropylbenzene                              | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:38 | WAT     | 98-82-8  |       |
| Bromoform                                     | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:38 | WAT     | 75-25-2  |       |
| 1,3-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:38 | WAT     | 541-73-1 |       |
| 1,4-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:38 | WAT     | 106-46-7 |       |
| 1,2-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:38 | WAT     | 95-50-1  |       |
| 1,2-Dibromo-3-chloropropane                   | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:38 | WAT     | 96-12-8  |       |
| 1,2,4-Trichlorobenzene                        | Not detected | ug/L  | 1  | 8260B  | 08/30/11 18:38 | WAT     | 120-82-1 |       |







# Analytical Laboratory Report

Lab Sample ID: S49882.01  
 Sample Tag: P2-MW-1  
 Collected Date/Time: 08/29/2011 10:10  
 Matrix: Groundwater  
 COC Reference: 16135

Sample Containers

| # | Type          | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---|---------------|-----------------|---------------|-------------------|---------------|
| 3 | 1L Amber      | None            | Yes           | 4.8               | IR            |
| 2 | 40ml Glass    | HCL             | Yes           | 4.8               | IR            |
| 1 | 125ml Plastic | HNO3            | Yes           | 4.8               | IR            |

| Analysis | Results | Units | RL | Method | Run Date/Time | Analyst | CAS # | Flags |
|----------|---------|-------|----|--------|---------------|---------|-------|-------|
|----------|---------|-------|----|--------|---------------|---------|-------|-------|

**Extraction / Prep.**

|                   |           |  |  |       |                |     |  |  |
|-------------------|-----------|--|--|-------|----------------|-----|--|--|
| BNA Extraction    | Completed |  |  | 3510C | 09/05/11 23:26 | EMR |  |  |
| Extraction, PCB   | Completed |  |  | 3510C | 09/02/11 15:00 | ADB |  |  |
| Mercury Digestion | Completed |  |  | 7471A | 09/02/11 11:40 | JRH |  |  |
| Metal Digestion   | Completed |  |  | 3015A | 09/06/11 01:00 | SLR |  |  |

**Metals**

|           |              |      |        |       |                |     |           |  |
|-----------|--------------|------|--------|-------|----------------|-----|-----------|--|
| Antimony  | Not detected | mg/L | 0.005  | 6020  | 09/06/11 14:08 | SLS | 7440-36-0 |  |
| Arsenic   | 0.009        | mg/L | 0.0005 | 6020  | 09/06/11 14:08 | SLS | 7440-38-2 |  |
| Barium    | 1.15         | mg/L | 0.005  | 6020  | 09/06/11 14:08 | SLS | 7440-39-3 |  |
| Beryllium | 0.0006       | mg/L | 0.0005 | 6020  | 09/06/11 14:08 | SLS | 7440-41-7 |  |
| Boron     | 0.04         | mg/L | 0.005  | 6020  | 09/06/11 14:08 | SLS | 7440-42-8 |  |
| Cadmium   | Not detected | mg/L | 0.0005 | 6020  | 09/06/11 14:08 | SLS | 7440-43-9 |  |
| Chromium  | Not detected | mg/L | 0.005  | 6020  | 09/06/11 14:08 | SLS | 7440-47-3 |  |
| Cobalt    | Not detected | mg/L | 0.005  | 6020  | 09/06/11 14:08 | SLS | 7440-48-4 |  |
| Copper    | Not detected | mg/L | 0.0025 | 6020  | 09/06/11 14:08 | SLS | 7440-50-8 |  |
| Lead      | 0.018        | mg/L | 0.0025 | 6020  | 09/06/11 14:08 | SLS | 7439-92-1 |  |
| Manganese | 0.116        | mg/L | 0.005  | 6020  | 09/06/11 14:08 | SLS | 7439-96-5 |  |
| Mercury   | Not detected | mg/L | 0.0001 | 7471A | 09/02/11 15:09 | JRT | 7439-97-6 |  |
| Nickel    | 0.021        | mg/L | 0.005  | 6020  | 09/06/11 14:08 | SLS | 7440-02-0 |  |
| Selenium  | Not detected | mg/L | 0.005  | 6020  | 09/06/11 14:08 | SLS | 7782-49-2 |  |
| Silver    | Not detected | mg/L | 0.0005 | 6020  | 09/06/11 14:08 | SLS | 7440-22-4 |  |
| Thallium  | 0.0009       | mg/L | 0.0005 | 6020  | 09/07/11 12:25 | SLS | 7440-28-0 |  |
| Vanadium  | Not detected | mg/L | 0.0025 | 6020  | 09/06/11 14:08 | SLS | 7440-62-2 |  |
| Zinc      | Not detected | mg/L | 0.005  | 6020  | 09/06/11 14:08 | SLS | 7440-66-6 |  |

**Organics - PCBs/Pesticides**

**TCL PCB List (Column 1)**

|          |              |      |      |      |                |      |            |  |
|----------|--------------|------|------|------|----------------|------|------------|--|
| PCB-1016 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:16 | JANB | 12674-11-2 |  |
| PCB-1242 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:16 | JANB | 53469-21-9 |  |
| PCB-1221 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:16 | JANB | 11104-28-2 |  |
| PCB-1232 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:16 | JANB | 11141-16-5 |  |
| PCB-1248 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:16 | JANB | 12672-29-6 |  |
| PCB-1254 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:16 | JANB | 11097-69-1 |  |
| PCB-1260 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:16 | JANB | 11096-82-5 |  |

**TCL PCB List (Column 2)**

|          |              |      |      |      |                |      |            |  |
|----------|--------------|------|------|------|----------------|------|------------|--|
| PCB-1016 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:16 | JANB | 12674-11-2 |  |
| PCB-1242 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:16 | JANB | 53469-21-9 |  |
| PCB-1221 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:16 | JANB | 11104-28-2 |  |
| PCB-1232 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:16 | JANB | 11141-16-5 |  |
| PCB-1248 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:16 | JANB | 12672-29-6 |  |



# Analytical Laboratory Report

Lab Sample ID: S49882.01 (continued)

Sample Tag: P2-MW-1

| Analysis                                      | Results      | Units | RL   | Method | Run Date/Time  | Analyst | CAS #      | Flags |
|---|--------------|-------|------|--------|----------------|---------|------------|-------|
| <b>Organics - PCBs/Pesticides (continued)</b> |              |       |      |        |                |         |            |       |
| <b>TCL PCB List (Column 2) (continued)</b>    |              |       |      |        |                |         |            |       |
| PCB-1254                                      | Not detected | ug/L  | 0.05 | 8082   | 09/02/11 13:16 | JANB    | 11097-69-1 |       |
| PCB-1260                                      | Not detected | ug/L  | 0.05 | 8082   | 09/02/11 13:16 | JANB    | 11096-82-5 |       |
| <b>Organics - Semi-Volatiles</b>              |              |       |      |        |                |         |            |       |
| 3,3'-Dichlorobenzidine                        | Not detected | ug/L  | 0.05 | 8270C  | 09/09/11 19:49 | PL      | 91-94-1    |       |
| Hexachlorobenzene                             | Not detected | ug/L  | 0.05 | 8270C  | 09/09/11 19:49 | PL      | 118-74-1   |       |
| <b>TCL Semi-Volatile Organics</b>             |              |       |      |        |                |         |            |       |
| Acenaphthene                                  | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 83-32-9    |       |
| Acenaphthylene                                | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 208-96-8   |       |
| Acetophenone                                  | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 98-86-2    |       |
| Anthracene                                    | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 120-12-7   |       |
| Atrazine                                      | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 1912-24-9  |       |
| 1,1'-Biphenyl                                 | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 92-52-4    |       |
| 4-Bromophenyl phenyl ether                    | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 101-55-3   |       |
| di-n-Butyl phthalate                          | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 84-74-2    |       |
| Benzaldehyde                                  | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 100-52-7   |       |
| Benzo(a)anthracene                            | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 56-55-3    |       |
| Benzo(a)pyrene                                | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 50-32-8    |       |
| Benzo(b)fluoranthene                          | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 205-99-2   |       |
| Benzo(ghi)perylene                            | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 191-24-2   |       |
| Benzo(k)fluoranthene                          | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 207-08-9   |       |
| Butyl benzyl phthalate                        | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 85-68-7    |       |
| 2-Chloronaphthalene                           | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 91-58-7    |       |
| 2-Chlorophenol                                | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 95-57-8    |       |
| 4-Chloro-3-methylphenol                       | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 59-50-7    |       |
| 4-Chloroaniline                               | Not detected | ug/L  | 2    | 8270C  | 09/07/11 18:37 | PL      | 106-47-8   |       |
| 4-Chlorophenyl phenyl ether                   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 7005-72-3  |       |
| Caprolactam                                   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 105-60-2   |       |
| Carbazole                                     | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 86-74-8    |       |
| bis(2-Chloroethoxy)methane                    | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 111-91-1   |       |
| bis(2-Chloroethyl)ether                       | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 111-44-4   |       |
| bis(2-Chloroisopropyl)ether                   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 108-60-1   |       |
| Chrysene                                      | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 218-01-9   |       |
| 2,4-Dichlorophenol                            | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 120-83-2   |       |
| 2,4-Dimethylphenol                            | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 105-67-9   |       |
| 2,4-Dinitrophenol                             | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 51-28-5    |       |
| 2,4-Dinitrotoluene                            | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 121-14-2   |       |
| 2,6-Dinitrotoluene                            | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 606-20-2   |       |
| 3,3'-Dichlorobenzidine                        | Not detected | ug/L  | 2    | 8270C  | 09/07/11 18:37 | PL      | 91-94-1    |       |
| 4,6-Dinitro-2-methylphenol                    | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 534-52-1   |       |
| Dibenzo(ah)anthracene                         | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 53-70-3    |       |
| Dibenzofuran                                  | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 132-64-9   |       |
| Diethyl phthalate                             | Not detected | ug/L  | 2    | 8270C  | 09/07/11 18:37 | PL      | 84-66-2    |       |
| Dimethyl phthalate                            | 3            | ug/L  | 2    | 8270C  | 09/07/11 18:37 | PL      | 131-11-3   |       |
| bis(2-Ethylhexyl)phthalate                    | Not detected | ug/L  | 2    | 8270C  | 09/07/11 18:37 | PL      | 117-81-7   |       |
| Fluoranthene                                  | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 206-44-0   |       |
| Fluorene                                      | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 86-73-7    |       |
| Hexachlorobenzene                             | Not detected | ug/L  | 1    | 8270C  | 09/07/11 18:37 | PL      | 118-74-1   |       |



# Analytical Laboratory Report

Lab Sample ID: S49882.01 (continued)

Sample Tag: P2-MW-1

| Analysis                                      | Results      | Units | RL   | Method      | Run Date/Time  | Analyst | CAS #      | Flags |
|---|--------------|-------|------|-------------|----------------|---------|------------|-------|
| <b>Organics - Semi-Volatiles (continued)</b>  |              |       |      |             |                |         |            |       |
| <b>TCL Semi-Volatile Organics (continued)</b> |              |       |      |             |                |         |            |       |
| Hexachlorobutadiene                           | Not detected | ug/L  | 1    | 8270C       | 09/07/11 18:37 | PL      | 87-68-3    |       |
| Hexachlorocyclopentadiene                     | Not detected | ug/L  | 1    | 8270C       | 09/07/11 18:37 | PL      | 77-47-4    |       |
| Hexachloroethane                              | Not detected | ug/L  | 1    | 8270C       | 09/07/11 18:37 | PL      | 67-72-1    |       |
| Indeno(1,2,3-cd)pyrene                        | Not detected | ug/L  | 1    | 8270C       | 09/07/11 18:37 | PL      | 193-39-5   |       |
| Isophorone                                    | Not detected | ug/L  | 1    | 8270C       | 09/07/11 18:37 | PL      | 78-59-1    |       |
| 2-Methylnaphthalene                           | Not detected | ug/L  | 1    | 8270C       | 09/07/11 18:37 | PL      | 91-57-6    |       |
| 2-Methylphenol                                | Not detected | ug/L  | 1    | 8270C       | 09/07/11 18:37 | PL      | 95-48-7    |       |
| 3-, 4-Methylphenol                            | Not detected | ug/L  | 1    | 8270C       | 09/07/11 18:37 | PL      | 3/4-Cresol |       |
| 2-Nitroaniline                                | Not detected | ug/L  | 1    | 8270C       | 09/07/11 18:37 | PL      | 88-74-4    |       |
| 2-Nitrophenol                                 | Not detected | ug/L  | 1    | 8270C       | 09/07/11 18:37 | PL      | 88-75-5    |       |
| 3-Nitroaniline                                | Not detected | ug/L  | 1    | 8270C       | 09/07/11 18:37 | PL      | 99-09-2    |       |
| 4-Nitroaniline                                | Not detected | ug/L  | 1    | 8270C       | 09/07/11 18:37 | PL      | 100-01-6   |       |
| 4-Nitrophenol                                 | Not detected | ug/L  | 1    | 8270C       | 09/07/11 18:37 | PL      | 100-02-7   |       |
| N-Nitrosodi-n-propylamine                     | Not detected | ug/L  | 1    | 8270C       | 09/07/11 18:37 | PL      | 621-64-7   |       |
| N-Nitrosodiphenylamine                        | Not detected | ug/L  | 1    | 8270C       | 09/07/11 18:37 | PL      | 86-30-6    |       |
| Naphthalene                                   | Not detected | ug/L  | 1    | 8270C       | 09/07/11 18:37 | PL      | 91-20-3    |       |
| Nitrobenzene                                  | Not detected | ug/L  | 1    | 8270C       | 09/07/11 18:37 | PL      | 98-95-3    |       |
| di-n-Octyl phthalate                          | Not detected | ug/L  | 1    | 8270C       | 09/07/11 18:37 | PL      | 117-84-0   |       |
| Pentachlorophenol                             | Not detected | ug/L  | 1    | 8270C       | 09/07/11 18:37 | PL      | 87-86-5    |       |
| Phenanthrene                                  | Not detected | ug/L  | 1    | 8270C       | 09/07/11 18:37 | PL      | 85-01-8    |       |
| Phenol  | Not detected | ug/L  | 1    | 8270C       | 09/07/11 18:37 | PL      | 108-95-2   |       |
| Pyrene  | Not detected | ug/L  | 1    | 8270C       | 09/07/11 18:37 | PL      | 129-00-0   |       |
| 2,4,5-Trichlorophenol                         | Not detected | ug/L  | 1    | 8270C       | 09/07/11 18:37 | PL      | 95-95-4    |       |
| 2,4,6-Trichlorophenol                         | Not detected | ug/L  | 1    | 8270C       | 09/07/11 18:37 | PL      | 88-06-2    |       |
| <b>Organics - Volatiles</b>                   |              |       |      |             |                |         |            |       |
| 1,2-Dibromo-3-chloropropane                   | Not detected | ug/L  | 0.05 | 8260B - SIM | 09/01/11 16:24 | JGH     | 96-12-8    |       |
| 1,2-Dibromoethane                             | Not detected | ug/L  | 0.02 | 8260B - SIM | 09/01/11 16:24 | JGH     | 106-93-4   |       |
| 1,4-Dioxane                                   | Not detected | ug/L  | 5    | 8260B - SIM | 09/01/11 16:24 | WAT     | 123-91-1   |       |
| <b>TCL Volatile Organics 8260</b>             |              |       |      |             |                |         |            |       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane         | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:34 | WAT     | 76-13-1    |       |
| Acetone                                       | Not detected | ug/L  | 10   | 8260B       | 09/06/11 21:34 | WAT     | 67-64-1    |       |
| Carbon disulfide                              | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:34 | WAT     | 75-15-0    |       |
| Methyl Acetate                                | Not detected | ug/L  | 10   | 8260B       | 09/06/11 21:34 | WAT     | 79-20-9    |       |
| tert-Methyl butyl ether (MTBE)                | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:34 | WAT     | 1634-04-4  |       |
| 2-Butanone (MEK)                              | Not detected | ug/L  | 10   | 8260B       | 09/06/11 21:34 | WAT     | 78-93-3    |       |
| Dichlorodifluoromethane                       | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:34 | WAT     | 75-71-8    |       |
| Chloromethane                                 | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:34 | WAT     | 74-87-3    |       |
| Vinyl chloride                                | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:34 | WAT     | 75-01-4    |       |
| Bromomethane                                  | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:34 | WAT     | 74-83-9    |       |
| Chloroethane                                  | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:34 | WAT     | 75-00-3    |       |
| Trichlorofluoromethane                        | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:34 | WAT     | 75-69-4    |       |
| 1,1-Dichloroethene                            | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:34 | WAT     | 75-35-4    |       |
| Methylene chloride                            | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:34 | WAT     | 75-09-2    |       |
| trans-1,2-Dichloroethene                      | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:34 | WAT     | 156-60-5   |       |
| 1,1-Dichloroethane                            | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:34 | WAT     | 75-34-3    |       |
| cis-1,2-Dichloroethene                        | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:34 | WAT     | 156-59-2   |       |
| Chloroform                                    | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:34 | WAT     | 67-66-3    |       |



# Analytical Laboratory Report

Lab Sample ID: S49882.01 (continued)

Sample Tag: P2-MW-1

| Analysis                                      | Results      | Units | RL | Method | Run Date/Time  | Analyst | CAS #      | Flags |
|---|--------------|-------|----|--------|----------------|---------|------------|-------|
| <b>Organics - Volatiles (continued)</b>       |              |       |    |        |                |         |            |       |
| <b>TCL Volatile Organics 8260 (continued)</b> |              |       |    |        |                |         |            |       |
| 1,1,1-Trichloroethane                         | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 71-55-6    |       |
| Cyclohexane                                   | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 110-82-7   |       |
| 4-Methyl-2-pentanone (MIBK)                   | Not detected | ug/L  | 10 | 8260B  | 09/06/11 21:34 | WAT     | 108-10-1   |       |
| 2-Hexanone                                    | Not detected | ug/L  | 10 | 8260B  | 09/06/11 21:34 | WAT     | 591-78-6   |       |
| Carbon tetrachloride                          | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 56-23-5    |       |
| Benzene                                       | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 71-43-2    |       |
| 1,2-Dichloroethane                            | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 107-06-2   |       |
| Trichloroethene                               | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 79-01-6    |       |
| 1,2-Dichloropropane                           | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 78-87-5    |       |
| Bromodichloromethane                          | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 75-27-4    |       |
| Methyl cyclohexane                            | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 108-87-2   |       |
| cis-1,3-Dichloropropene                       | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 10061-01-5 |       |
| Toluene                                       | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 108-88-3   |       |
| trans-1,3-Dichloropropene                     | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 10061-02-6 |       |
| 1,1,2-Trichloroethane                         | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 79-00-5    |       |
| Tetrachloroethene                             | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 127-18-4   |       |
| Dibromochloromethane                          | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 124-48-1   |       |
| 1,2-Dibromoethane                             | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 106-93-4   |       |
| Chlorobenzene                                 | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 108-90-7   |       |
| 1,1,2,2-Tetrachloroethane                     | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 79-34-5    |       |
| Ethylbenzene                                  | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 100-41-4   |       |
| p,m-Xylene                                    | Not detected | ug/L  | 2  | 8260B  | 09/06/11 21:34 | WAT     |            |       |
| o-Xylene                                      | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 95-47-6    |       |
| Styrene                                       | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 100-42-5   |       |
| Isopropylbenzene                              | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 98-82-8    |       |
| Bromoform                                     | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 75-25-2    |       |
| 1,3-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 541-73-1   |       |
| 1,4-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 106-46-7   |       |
| 1,2-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 95-50-1    |       |
| 1,2-Dibromo-3-chloropropane                   | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 96-12-8    |       |
| 1,2,4-Trichlorobenzene                        | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:34 | WAT     | 120-82-1   |       |



# Analytical Laboratory Report

Lab Sample ID: S49882.02  
 Sample Tag: P2-MW-3  
 Collected Date/Time: 08/31/2011 11:30  
 Matrix: Groundwater  
 COC Reference: 16135

## Sample Containers

| # | Type          | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---|---------------|-----------------|---------------|-------------------|---------------|
| 3 | 1L Amber      | None            | Yes           | 4.8               | IR            |
| 1 | 125ml Plastic | HNO3            | Yes           | 4.8               | IR            |

| Analysis | Results | Units | RL | Method | Run Date/Time | Analyst | CAS # | Flags |
|----------|---------|-------|----|--------|---------------|---------|-------|-------|
|----------|---------|-------|----|--------|---------------|---------|-------|-------|

### Extraction / Prep.

|                   |           |  |  |       |                |     |  |  |
|-------------------|-----------|--|--|-------|----------------|-----|--|--|
| BNA Extraction    | Completed |  |  | 3510C | 09/05/11 23:26 | EMR |  |  |
| Extraction, PCB   | Completed |  |  | 3510C | 09/02/11 15:00 | ADB |  |  |
| Mercury Digestion | Completed |  |  | 7471A | 09/02/11 11:40 | JRH |  |  |
| Metal Digestion   | Completed |  |  | 3015A | 09/06/11 01:00 | SLR |  |  |

### Metals

|           |              |      |        |       |                |     |           |  |
|-----------|--------------|------|--------|-------|----------------|-----|-----------|--|
| Antimony  | Not detected | mg/L | 0.005  | 6020  | 09/06/11 14:13 | SLS | 7440-36-0 |  |
| Arsenic   | 0.007        | mg/L | 0.0005 | 6020  | 09/06/11 14:13 | SLS | 7440-38-2 |  |
| Barium    | 0.435        | mg/L | 0.005  | 6020  | 09/06/11 14:13 | SLS | 7440-39-3 |  |
| Beryllium | 0.0006       | mg/L | 0.0005 | 6020  | 09/06/11 14:13 | SLS | 7440-41-7 |  |
| Boron     | 0.07         | mg/L | 0.005  | 6020  | 09/06/11 14:13 | SLS | 7440-42-8 |  |
| Cadmium   | Not detected | mg/L | 0.0005 | 6020  | 09/06/11 14:13 | SLS | 7440-43-9 |  |
| Chromium  | Not detected | mg/L | 0.005  | 6020  | 09/06/11 14:13 | SLS | 7440-47-3 |  |
| Cobalt    | Not detected | mg/L | 0.005  | 6020  | 09/06/11 14:13 | SLS | 7440-48-4 |  |
| Copper    | Not detected | mg/L | 0.0025 | 6020  | 09/06/11 14:13 | SLS | 7440-50-8 |  |
| Lead      | 0.009        | mg/L | 0.0025 | 6020  | 09/06/11 14:13 | SLS | 7439-92-1 |  |
| Manganese | 0.155        | mg/L | 0.005  | 6020  | 09/06/11 14:13 | SLS | 7439-96-5 |  |
| Mercury   | Not detected | mg/L | 0.0001 | 7471A | 09/02/11 15:11 | JRT | 7439-97-6 |  |
| Nickel    | 0.014        | mg/L | 0.005  | 6020  | 09/06/11 14:13 | SLS | 7440-02-0 |  |
| Selenium  | Not detected | mg/L | 0.005  | 6020  | 09/06/11 14:13 | SLS | 7782-49-2 |  |
| Silver    | Not detected | mg/L | 0.0005 | 6020  | 09/06/11 14:13 | SLS | 7440-22-4 |  |
| Thallium  | Not detected | mg/L | 0.0005 | 6020  | 09/07/11 12:27 | SLS | 7440-28-0 |  |
| Vanadium  | Not detected | mg/L | 0.0025 | 6020  | 09/06/11 14:13 | SLS | 7440-62-2 |  |
| Zinc      | Not detected | mg/L | 0.005  | 6020  | 09/06/11 14:13 | SLS | 7440-66-6 |  |

### Organics - PCBs/Pesticides

#### TCL PCB List (Column 1)

|          |              |      |      |      |                |      |            |  |
|----------|--------------|------|------|------|----------------|------|------------|--|
| PCB-1016 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:26 | JANB | 12674-11-2 |  |
| PCB-1242 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:26 | JANB | 53469-21-9 |  |
| PCB-1221 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:26 | JANB | 11104-28-2 |  |
| PCB-1232 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:26 | JANB | 11141-16-5 |  |
| PCB-1248 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:26 | JANB | 12672-29-6 |  |
| PCB-1254 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:26 | JANB | 11097-69-1 |  |
| PCB-1260 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:26 | JANB | 11096-82-5 |  |

#### TCL PCB List (Column 2)

|          |              |      |      |      |                |      |            |  |
|----------|--------------|------|------|------|----------------|------|------------|--|
| PCB-1016 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:26 | JANB | 12674-11-2 |  |
| PCB-1242 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:26 | JANB | 53469-21-9 |  |
| PCB-1221 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:26 | JANB | 11104-28-2 |  |
| PCB-1232 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:26 | JANB | 11141-16-5 |  |
| PCB-1248 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:26 | JANB | 12672-29-6 |  |
| PCB-1254 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:26 | JANB | 11097-69-1 |  |



# Analytical Laboratory Report

Lab Sample ID: S49882.02 (continued)

Sample Tag: P2-MW-3

| Analysis                                      | Results      | Units | RL   | Method | Run Date/Time  | Analyst | CAS #      | Flags |
|---|--------------|-------|------|--------|----------------|---------|------------|-------|
| <b>Organics - PCBs/Pesticides (continued)</b> |              |       |      |        |                |         |            |       |
| <b>TCL PCB List (Column 2) (continued)</b>    |              |       |      |        |                |         |            |       |
| PCB-1260                                      | Not detected | ug/L  | 0.05 | 8082   | 09/02/11 13:26 | JANB    | 11096-82-5 |       |
| <b>Organics - Semi-Volatiles</b>              |              |       |      |        |                |         |            |       |
| 3,3'-Dichlorobenzidine                        | Not detected | ug/L  | 0.05 | 8270C  | 09/09/11 20:22 | PL      | 91-94-1    |       |
| Hexachlorobenzene                             | Not detected | ug/L  | 0.05 | 8270C  | 09/09/11 20:22 | PL      | 118-74-1   |       |
| <b>TCL Semi-Volatile Organics</b>             |              |       |      |        |                |         |            |       |
| Acenaphthene                                  | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 83-32-9    |       |
| Acenaphthylene                                | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 208-96-8   |       |
| Acetophenone                                  | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 98-86-2    |       |
| Anthracene                                    | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 120-12-7   |       |
| Atrazine                                      | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 1912-24-9  |       |
| 1,1'-Biphenyl                                 | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 92-52-4    |       |
| 4-Bromophenyl phenyl ether                    | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 101-55-3   |       |
| di-n-Butyl phthalate                          | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 84-74-2    |       |
| Benzaldehyde                                  | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 100-52-7   |       |
| Benzo(a)anthracene                            | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 56-55-3    |       |
| Benzo(a)pyrene                                | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 50-32-8    |       |
| Benzo(b)fluoranthene                          | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 205-99-2   |       |
| Benzo(ghi)perylene                            | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 191-24-2   |       |
| Benzo(k)fluoranthene                          | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 207-08-9   |       |
| Butyl benzyl phthalate                        | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 85-68-7    |       |
| 2-Chloronaphthalene                           | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 91-58-7    |       |
| 2-Chlorophenol                                | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 95-57-8    |       |
| 4-Chloro-3-methylphenol                       | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 59-50-7    |       |
| 4-Chloroaniline                               | Not detected | ug/L  | 2    | 8270C  | 09/07/11 19:10 | PL      | 106-47-8   |       |
| 4-Chlorophenyl phenyl ether                   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 7005-72-3  |       |
| Caprolactam                                   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 105-60-2   |       |
| Carbazole                                     | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 86-74-8    |       |
| bis(2-Chloroethoxy)methane                    | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 111-91-1   |       |
| bis(2-Chloroethyl)ether                       | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 111-44-4   |       |
| bis(2-Chloroisopropyl)ether                   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 108-60-1   |       |
| Chrysene                                      | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 218-01-9   |       |
| 2,4-Dichlorophenol                            | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 120-83-2   |       |
| 2,4-Dimethylphenol                            | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 105-67-9   |       |
| 2,4-Dinitrophenol                             | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 51-28-5    |       |
| 2,4-Dinitrotoluene                            | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 121-14-2   |       |
| 2,6-Dinitrotoluene                            | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 606-20-2   |       |
| 3,3'-Dichlorobenzidine                        | Not detected | ug/L  | 2    | 8270C  | 09/07/11 19:10 | PL      | 91-94-1    |       |
| 4,6-Dinitro-2-methylphenol                    | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 534-52-1   |       |
| Dibenzo(ah)anthracene                         | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 53-70-3    |       |
| Dibenzofuran                                  | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 132-64-9   |       |
| Diethyl phthalate                             | Not detected | ug/L  | 2    | 8270C  | 09/07/11 19:10 | PL      | 84-66-2    |       |
| Dimethyl phthalate                            | 3            | ug/L  | 2    | 8270C  | 09/07/11 19:10 | PL      | 131-11-3   |       |
| bis(2-Ethylhexyl)phthalate                    | Not detected | ug/L  | 2    | 8270C  | 09/07/11 19:10 | PL      | 117-81-7   |       |
| Fluoranthene                                  | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 206-44-0   |       |
| Fluorene                                      | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 86-73-7    |       |
| Hexachlorobenzene                             | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 118-74-1   |       |
| Hexachlorobutadiene                           | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:10 | PL      | 87-68-3    |       |



# Analytical Laboratory Report

Lab Sample ID: S49882.02 (continued)

Sample Tag: P2-MW-3

| Analysis                                      | Results      | Units | RL | Method | Run Date/Time  | Analyst | CAS #      | Flags |
|---|--------------|-------|----|--------|----------------|---------|------------|-------|
| <b>Organics - Semi-Volatiles (continued)</b>  |              |       |    |        |                |         |            |       |
| <b>TCL Semi-Volatile Organics (continued)</b> |              |       |    |        |                |         |            |       |
| Hexachlorocyclopentadiene                     | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:10 | PL      | 77-47-4    |       |
| Hexachloroethane                              | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:10 | PL      | 67-72-1    |       |
| Indeno(1,2,3-cd)pyrene                        | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:10 | PL      | 193-39-5   |       |
| Isophorone                                    | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:10 | PL      | 78-59-1    |       |
| 2-Methylnaphthalene                           | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:10 | PL      | 91-57-6    |       |
| 2-Methylphenol                                | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:10 | PL      | 95-48-7    |       |
| 3-, 4-Methylphenol                            | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:10 | PL      | 3/4-Cresol |       |
| 2-Nitroaniline                                | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:10 | PL      | 88-74-4    |       |
| 2-Nitrophenol                                 | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:10 | PL      | 88-75-5    |       |
| 3-Nitroaniline                                | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:10 | PL      | 99-09-2    |       |
| 4-Nitroaniline                                | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:10 | PL      | 100-01-6   |       |
| 4-Nitrophenol                                 | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:10 | PL      | 100-02-7   |       |
| N-Nitrosodi-n-propylamine                     | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:10 | PL      | 621-64-7   |       |
| N-Nitrosodiphenylamine                        | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:10 | PL      | 86-30-6    |       |
| Naphthalene                                   | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:10 | PL      | 91-20-3    |       |
| Nitrobenzene                                  | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:10 | PL      | 98-95-3    |       |
| di-n-Octyl phthalate                          | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:10 | PL      | 117-84-0   |       |
| Pentachlorophenol                             | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:10 | PL      | 87-86-5    |       |
| Phenanthrene                                  | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:10 | PL      | 85-01-8    |       |
| Phenol  | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:10 | PL      | 108-95-2   |       |
| Pyrene  | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:10 | PL      | 129-00-0   |       |
| 2,4,5-Trichlorophenol                         | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:10 | PL      | 95-95-4    |       |
| 2,4,6-Trichlorophenol                         | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:10 | PL      | 88-06-2    |       |



# Analytical Laboratory Report

Lab Sample ID: S49882.03  
 Sample Tag: P2-MW-3 (Filtered)  
 Collected Date/Time: 08/31/2011 12:10  
 Matrix: Groundwater  
 COC Reference: 16135

## Sample Containers

| # | Type          | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---|---------------|-----------------|---------------|-------------------|---------------|
| 3 | 1L Amber      | None            | Yes           | 4.8               | IR            |
| 1 | 125ml Plastic | HNO3            | Yes           | 4.8               | IR            |

| Analysis | Results | Units | RL | Method | Run Date/Time | Analyst | CAS # | Flags |
|----------|---------|-------|----|--------|---------------|---------|-------|-------|
|----------|---------|-------|----|--------|---------------|---------|-------|-------|

### Extraction / Prep.

|                   |           |  |  |       |                |     |  |  |
|-------------------|-----------|--|--|-------|----------------|-----|--|--|
| BNA Extraction    | Completed |  |  | 3510C | 09/05/11 23:27 | EMR |  |  |
| Extraction, PCB   | Completed |  |  | 3510C | 09/02/11 15:00 | ADB |  |  |
| Mercury Digestion | Completed |  |  | 7471A | 09/02/11 11:40 | JRH |  |  |
| Metal Digestion   | Completed |  |  | 3015A | 09/06/11 01:00 | SLR |  |  |

### Metals

|           |              |      |        |       |                |     |           |  |
|-----------|--------------|------|--------|-------|----------------|-----|-----------|--|
| Antimony  | Not detected | mg/L | 0.005  | 6020  | 09/06/11 14:17 | SLS | 7440-36-0 |  |
| Arsenic   | 0.008        | mg/L | 0.0005 | 6020  | 09/06/11 14:17 | SLS | 7440-38-2 |  |
| Barium    | 0.445        | mg/L | 0.005  | 6020  | 09/06/11 14:17 | SLS | 7440-39-3 |  |
| Beryllium | 0.0005       | mg/L | 0.0005 | 6020  | 09/06/11 14:17 | SLS | 7440-41-7 |  |
| Boron     | 0.07         | mg/L | 0.005  | 6020  | 09/06/11 14:17 | SLS | 7440-42-8 |  |
| Cadmium   | Not detected | mg/L | 0.0005 | 6020  | 09/06/11 14:17 | SLS | 7440-43-9 |  |
| Chromium  | Not detected | mg/L | 0.005  | 6020  | 09/06/11 14:17 | SLS | 7440-47-3 |  |
| Cobalt    | Not detected | mg/L | 0.005  | 6020  | 09/06/11 14:17 | SLS | 7440-48-4 |  |
| Copper    | Not detected | mg/L | 0.0025 | 6020  | 09/06/11 14:17 | SLS | 7440-50-8 |  |
| Lead      | 0.007        | mg/L | 0.0025 | 6020  | 09/06/11 14:17 | SLS | 7439-92-1 |  |
| Manganese | 0.143        | mg/L | 0.005  | 6020  | 09/06/11 14:17 | SLS | 7439-96-5 |  |
| Mercury   | Not detected | mg/L | 0.0001 | 7471A | 09/02/11 15:14 | JRT | 7439-97-6 |  |
| Nickel    | 0.017        | mg/L | 0.005  | 6020  | 09/06/11 14:17 | SLS | 7440-02-0 |  |
| Selenium  | Not detected | mg/L | 0.005  | 6020  | 09/06/11 14:17 | SLS | 7782-49-2 |  |
| Silver    | Not detected | mg/L | 0.0005 | 6020  | 09/06/11 14:17 | SLS | 7440-22-4 |  |
| Thallium  | Not detected | mg/L | 0.001  | 6020  | 09/07/11 12:28 | SLR | 7440-28-0 |  |
| Vanadium  | Not detected | mg/L | 0.0025 | 6020  | 09/06/11 14:17 | SLS | 7440-62-2 |  |
| Zinc      | Not detected | mg/L | 0.005  | 6020  | 09/06/11 14:17 | SLS | 7440-66-6 |  |

### Organics - PCBs/Pesticides

#### TCL PCB List Dissolved (Column 1)

|          |              |      |      |      |                |      |            |  |
|----------|--------------|------|------|------|----------------|------|------------|--|
| PCB-1016 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:37 | JANB | 12674-11-2 |  |
| PCB-1242 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:37 | JANB | 53469-21-9 |  |
| PCB-1221 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:37 | JANB | 11104-28-2 |  |
| PCB-1232 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:37 | JANB | 11141-16-5 |  |
| PCB-1248 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:37 | JANB | 12672-29-6 |  |
| PCB-1254 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:37 | JANB | 11097-69-1 |  |
| PCB-1260 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:37 | JANB | 11096-82-5 |  |

#### TCL PCB List Dissolved (Column 2)

|          |              |      |      |      |                |      |            |  |
|----------|--------------|------|------|------|----------------|------|------------|--|
| PCB-1016 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:37 | JANB | 12674-11-2 |  |
| PCB-1242 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:37 | JANB | 53469-21-9 |  |
| PCB-1221 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:37 | JANB | 11104-28-2 |  |
| PCB-1232 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:37 | JANB | 11141-16-5 |  |
| PCB-1248 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:37 | JANB | 12672-29-6 |  |
| PCB-1254 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:37 | JANB | 11097-69-1 |  |



# Analytical Laboratory Report

Lab Sample ID: S49882.03 (continued)

Sample Tag: P2-MW-3 (Filtered)

| Analysis   | Results      | Units | RL   | Method | Run Date/Time  | Analyst | CAS #      | Flags |
|--|--------------|-------|------|--------|----------------|---------|------------|-------|
| <b>Organics - PCBs/Pesticides (continued)</b>        |              |       |      |        |                |         |            |       |
| <b>TCL PCB List Dissolved (Column 2) (continued)</b> |              |       |      |        |                |         |            |       |
| PCB-1260   | Not detected | ug/L  | 0.05 | 8082   | 09/02/11 13:37 | JANB    | 11096-82-5 |       |
| <b>Organics - Semi-Volatiles</b>                     |              |       |      |        |                |         |            |       |
| 3,3'-Dichlorobenzidine                               | Not detected | ug/L  | 0.05 | 8270C  | 09/09/11 20:55 | PL      | 91-94-1    |       |
| Hexachlorobenzene                                    | Not detected | ug/L  | 0.05 | 8270C  | 09/09/11 20:55 | PL      | 118-74-1   |       |
| <b>TCL Semi-Volatile Organics, Dissolved</b>         |              |       |      |        |                |         |            |       |
| Acenaphthene   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 83-32-9    |       |
| Acenaphthylene                                       | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 208-96-8   |       |
| Acetophenone   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 98-86-2    |       |
| Anthracene   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 120-12-7   |       |
| Atrazine   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 1912-24-9  |       |
| 1,1'-Biphenyl  | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 92-52-4    |       |
| 4-Bromophenyl phenyl ether                           | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 101-55-3   |       |
| di-n-Butyl phthalate                                 | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 84-74-2    |       |
| Benzaldehyde   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 100-52-7   |       |
| Benzo(a)anthracene                                   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 56-55-3    |       |
| Benzo(a)pyrene                                       | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 50-32-8    |       |
| Benzo(b)fluoranthene                                 | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 205-99-2   |       |
| Benzo(ghi)perylene                                   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 191-24-2   |       |
| Benzo(k)fluoranthene                                 | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 207-08-9   |       |
| Butyl benzyl phthalate                               | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 85-68-7    |       |
| 2-Chloronaphthalene                                  | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 91-58-7    |       |
| 2-Chlorophenol                                       | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 95-57-8    |       |
| 4-Chloro-3-methylphenol                              | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 59-50-7    |       |
| 4-Chloroaniline                                      | Not detected | ug/L  | 2    | 8270C  | 09/07/11 19:43 | PL      | 106-47-8   |       |
| 4-Chlorophenyl phenyl ether                          | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 7005-72-3  |       |
| Caprolactam  | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 105-60-2   |       |
| Carbazole  | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 86-74-8    |       |
| bis(2-Chloroethoxy)methane                           | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 111-91-1   |       |
| bis(2-Chloroethyl)ether                              | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 111-44-4   |       |
| bis(2-Chloroisopropyl)ether                          | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 108-60-1   |       |
| Chrysene   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 218-01-9   |       |
| 2,4-Dichlorophenol                                   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 120-83-2   |       |
| 2,4-Dimethylphenol                                   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 105-67-9   |       |
| 2,4-Dinitrophenol                                    | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 51-28-5    |       |
| 2,4-Dinitrotoluene                                   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 121-14-2   |       |
| 2,6-Dinitrotoluene                                   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 606-20-2   |       |
| 3,3'-Dichlorobenzidine                               | Not detected | ug/L  | 2    | 8270C  | 09/07/11 19:43 | PL      | 91-94-1    |       |
| 4,6-Dinitro-2-methylphenol                           | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 534-52-1   |       |
| Dibenzo(ah)anthracene                                | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 53-70-3    |       |
| Dibenzofuran   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 132-64-9   |       |
| Diethyl phthalate                                    | Not detected | ug/L  | 2    | 8270C  | 09/07/11 19:43 | PL      | 84-66-2    |       |
| Dimethyl phthalate                                   | 2            | ug/L  | 2    | 8270C  | 09/07/11 19:43 | PL      | 131-11-3   |       |
| bis(2-Ethylhexyl)phthalate                           | Not detected | ug/L  | 2    | 8270C  | 09/07/11 19:43 | PL      | 117-81-7   |       |
| Fluoranthene   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 206-44-0   |       |
| Fluorene   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 86-73-7    |       |
| Hexachlorobenzene                                    | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 118-74-1   |       |
| Hexachlorobutadiene                                  | Not detected | ug/L  | 1    | 8270C  | 09/07/11 19:43 | PL      | 87-68-3    |       |



# Analytical Laboratory Report

Lab Sample ID: S49882.03 (continued)

Sample Tag: P2-MW-3 (Filtered)

| Analysis   | Results      | Units | RL | Method | Run Date/Time  | Analyst | CAS #      | Flags |
|--|--------------|-------|----|--------|----------------|---------|------------|-------|
| <b>Organics - Semi-Volatiles (continued)</b>             |              |       |    |        |                |         |            |       |
| <b>TCL Semi-Volatile Organics, Dissolved (continued)</b> |              |       |    |        |                |         |            |       |
| Hexachlorocyclopentadiene                                | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:43 | PL      | 77-47-4    |       |
| Hexachloroethane   | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:43 | PL      | 67-72-1    |       |
| Indeno(1,2,3-cd)pyrene                                   | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:43 | PL      | 193-39-5   |       |
| Isophorone   | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:43 | PL      | 78-59-1    |       |
| 2-Methylnaphthalene                                      | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:43 | PL      | 91-57-6    |       |
| 2-Methylphenol   | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:43 | PL      | 95-48-7    |       |
| 3-, 4-Methylphenol                                       | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:43 | PL      | 3/4-Cresol |       |
| 2-Nitroaniline   | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:43 | PL      | 88-74-4    |       |
| 2-Nitrophenol  | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:43 | PL      | 88-75-5    |       |
| 3-Nitroaniline   | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:43 | PL      | 99-09-2    |       |
| 4-Nitroaniline   | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:43 | PL      | 100-01-6   |       |
| 4-Nitrophenol  | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:43 | PL      | 100-02-7   |       |
| N-Nitrosodi-n-propylamine                                | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:43 | PL      | 621-64-7   |       |
| N-Nitrosodiphenylamine                                   | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:43 | PL      | 86-30-6    |       |
| Naphthalene  | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:43 | PL      | 91-20-3    |       |
| Nitrobenzene   | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:43 | PL      | 98-95-3    |       |
| di-n-Octyl phthalate                                     | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:43 | PL      | 117-84-0   |       |
| Pentachlorophenol  | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:43 | PL      | 87-86-5    |       |
| Phenanthrene   | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:43 | PL      | 85-01-8    |       |
| Phenol   | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:43 | PL      | 108-95-2   |       |
| Pyrene   | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:43 | PL      | 129-00-0   |       |
| 2,4,5-Trichlorophenol                                    | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:43 | PL      | 95-95-4    |       |
| 2,4,6-Trichlorophenol                                    | Not detected | ug/L  | 1  | 8270C  | 09/07/11 19:43 | PL      | 88-06-2    |       |



# Analytical Laboratory Report

Lab Sample ID: S49882.04  
 Sample Tag: P2-SB-20  
 Collected Date/Time: 08/31/2011 15:30  
 Matrix: Groundwater  
 COC Reference: 16135

## Sample Containers

| # | Type          | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---|---------------|-----------------|---------------|-------------------|---------------|
| 3 | 1L Amber      | None            | Yes           | 4.8               | IR            |
| 2 | 40ml Glass    | HCL             | Yes           | 4.8               | IR            |
| 1 | 125ml Plastic | HNO3            | Yes           | 4.8               | IR            |

| Analysis | Results | Units | RL | Method | Run Date/Time | Analyst | CAS # | Flags |
|----------|---------|-------|----|--------|---------------|---------|-------|-------|
|----------|---------|-------|----|--------|---------------|---------|-------|-------|

### Extraction / Prep.

|                   |           |  |  |       |                |     |  |  |
|-------------------|-----------|--|--|-------|----------------|-----|--|--|
| BNA Extraction    | Completed |  |  | 3510C | 09/05/11 23:26 | EMR |  |  |
| Extraction, PCB   | Completed |  |  | 3510C | 09/02/11 15:00 | ADB |  |  |
| Mercury Digestion | Completed |  |  | 7471A | 09/02/11 11:40 | JRH |  |  |
| Metal Digestion   | Completed |  |  | 3015A | 09/06/11 01:00 | SLR |  |  |

### Metals

|           |              |      |        |       |                |     |           |  |
|-----------|--------------|------|--------|-------|----------------|-----|-----------|--|
| Antimony  | Not detected | mg/L | 0.005  | 6020  | 09/06/11 14:22 | SLS | 7440-36-0 |  |
| Arsenic   | 0.001        | mg/L | 0.0005 | 6020  | 09/06/11 14:22 | SLS | 7440-38-2 |  |
| Barium    | 0.147        | mg/L | 0.005  | 6020  | 09/06/11 14:22 | SLS | 7440-39-3 |  |
| Beryllium | 0.0007       | mg/L | 0.0005 | 6020  | 09/06/11 14:22 | SLS | 7440-41-7 |  |
| Boron     | 0.35         | mg/L | 0.005  | 6020  | 09/06/11 14:22 | SLS | 7440-42-8 |  |
| Cadmium   | Not detected | mg/L | 0.0005 | 6020  | 09/06/11 14:22 | SLS | 7440-43-9 |  |
| Chromium  | Not detected | mg/L | 0.005  | 6020  | 09/06/11 14:22 | SLS | 7440-47-3 |  |
| Cobalt    | Not detected | mg/L | 0.005  | 6020  | 09/06/11 14:22 | SLS | 7440-48-4 |  |
| Copper    | 0.004        | mg/L | 0.0025 | 6020  | 09/06/11 14:22 | SLS | 7440-50-8 |  |
| Lead      | 0.018        | mg/L | 0.0025 | 6020  | 09/06/11 14:22 | SLS | 7439-92-1 |  |
| Manganese | 0.177        | mg/L | 0.005  | 6020  | 09/06/11 14:22 | SLS | 7439-96-5 |  |
| Mercury   | Not detected | mg/L | 0.0001 | 7471A | 09/02/11 15:16 | JRT | 7439-97-6 |  |
| Nickel    | Not detected | mg/L | 0.005  | 6020  | 09/06/11 14:22 | SLS | 7440-02-0 |  |
| Selenium  | Not detected | mg/L | 0.005  | 6020  | 09/06/11 14:22 | SLS | 7782-49-2 |  |
| Silver    | Not detected | mg/L | 0.0005 | 6020  | 09/06/11 14:22 | SLS | 7440-22-4 |  |
| Thallium  | Not detected | mg/L | 0.0005 | 6020  | 09/07/11 12:30 | SLS | 7440-28-0 |  |
| Vanadium  | Not detected | mg/L | 0.0025 | 6020  | 09/06/11 14:22 | SLS | 7440-62-2 |  |
| Zinc      | Not detected | mg/L | 0.005  | 6020  | 09/06/11 14:22 | SLS | 7440-66-6 |  |

### Organics - PCBs/Pesticides

#### TCL PCB List (Column 1)

|          |              |      |      |      |                |      |            |  |
|----------|--------------|------|------|------|----------------|------|------------|--|
| PCB-1016 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:47 | JANB | 12674-11-2 |  |
| PCB-1242 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:47 | JANB | 53469-21-9 |  |
| PCB-1221 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:47 | JANB | 11104-28-2 |  |
| PCB-1232 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:47 | JANB | 11141-16-5 |  |
| PCB-1248 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:47 | JANB | 12672-29-6 |  |
| PCB-1254 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:47 | JANB | 11097-69-1 |  |
| PCB-1260 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:47 | JANB | 11096-82-5 |  |

#### TCL PCB List (Column 2)

|          |              |      |      |      |                |      |            |  |
|----------|--------------|------|------|------|----------------|------|------------|--|
| PCB-1016 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:47 | JANB | 12674-11-2 |  |
| PCB-1242 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:47 | JANB | 53469-21-9 |  |
| PCB-1221 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:47 | JANB | 11104-28-2 |  |
| PCB-1232 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:47 | JANB | 11141-16-5 |  |
| PCB-1248 | Not detected | ug/L | 0.05 | 8082 | 09/02/11 13:47 | JANB | 12672-29-6 |  |



# Analytical Laboratory Report

Lab Sample ID: S49882.04 (continued)

Sample Tag: P2-SB-20

| Analysis                                      | Results      | Units | RL   | Method | Run Date/Time  | Analyst | CAS #      | Flags |
|---|--------------|-------|------|--------|----------------|---------|------------|-------|
| <b>Organics - PCBs/Pesticides (continued)</b> |              |       |      |        |                |         |            |       |
| <b>TCL PCB List (Column 2) (continued)</b>    |              |       |      |        |                |         |            |       |
| PCB-1254                                      | Not detected | ug/L  | 0.05 | 8082   | 09/02/11 13:47 | JANB    | 11097-69-1 |       |
| PCB-1260                                      | Not detected | ug/L  | 0.05 | 8082   | 09/02/11 13:47 | JANB    | 11096-82-5 |       |
| <b>Organics - Semi-Volatiles</b>              |              |       |      |        |                |         |            |       |
| 3,3'-Dichlorobenzidine                        | Not detected | ug/L  | 0.05 | 8270C  | 09/09/11 21:28 | PL      | 91-94-1    |       |
| Hexachlorobenzene                             | Not detected | ug/L  | 0.05 | 8270C  | 09/09/11 21:28 | PL      | 118-74-1   |       |
| <b>TCL Semi-Volatile Organics</b>             |              |       |      |        |                |         |            |       |
| Acenaphthene                                  | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 83-32-9    |       |
| Acenaphthylene                                | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 208-96-8   |       |
| Acetophenone                                  | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 98-86-2    |       |
| Anthracene                                    | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 120-12-7   |       |
| Atrazine                                      | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 1912-24-9  |       |
| 1,1'-Biphenyl                                 | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 92-52-4    |       |
| 4-Bromophenyl phenyl ether                    | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 101-55-3   |       |
| di-n-Butyl phthalate                          | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 84-74-2    |       |
| Benzaldehyde                                  | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 100-52-7   |       |
| Benzo(a)anthracene                            | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 56-55-3    |       |
| Benzo(a)pyrene                                | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 50-32-8    |       |
| Benzo(b)fluoranthene                          | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 205-99-2   |       |
| Benzo(ghi)perylene                            | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 191-24-2   |       |
| Benzo(k)fluoranthene                          | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 207-08-9   |       |
| Butyl benzyl phthalate                        | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 85-68-7    |       |
| 2-Chloronaphthalene                           | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 91-58-7    |       |
| 2-Chlorophenol                                | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 95-57-8    |       |
| 4-Chloro-3-methylphenol                       | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 59-50-7    |       |
| 4-Chloroaniline                               | Not detected | ug/L  | 2    | 8270C  | 09/07/11 20:15 | PL      | 106-47-8   |       |
| 4-Chlorophenyl phenyl ether                   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 7005-72-3  |       |
| Caprolactam                                   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 105-60-2   |       |
| Carbazole                                     | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 86-74-8    |       |
| bis(2-Chloroethoxy)methane                    | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 111-91-1   |       |
| bis(2-Chloroethyl)ether                       | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 111-44-4   |       |
| bis(2-Chloroisopropyl)ether                   | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 108-60-1   |       |
| Chrysene                                      | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 218-01-9   |       |
| 2,4-Dichlorophenol                            | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 120-83-2   |       |
| 2,4-Dimethylphenol                            | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 105-67-9   |       |
| 2,4-Dinitrophenol                             | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 51-28-5    |       |
| 2,4-Dinitrotoluene                            | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 121-14-2   |       |
| 2,6-Dinitrotoluene                            | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 606-20-2   |       |
| 3,3'-Dichlorobenzidine                        | Not detected | ug/L  | 2    | 8270C  | 09/07/11 20:15 | PL      | 91-94-1    |       |
| 4,6-Dinitro-2-methylphenol                    | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 534-52-1   |       |
| Dibenzo(ah)anthracene                         | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 53-70-3    |       |
| Dibenzofuran                                  | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 132-64-9   |       |
| Diethyl phthalate                             | Not detected | ug/L  | 2    | 8270C  | 09/07/11 20:15 | PL      | 84-66-2    |       |
| Dimethyl phthalate                            | 4            | ug/L  | 2    | 8270C  | 09/07/11 20:15 | PL      | 131-11-3   |       |
| bis(2-Ethylhexyl)phthalate                    | Not detected | ug/L  | 2    | 8270C  | 09/07/11 20:15 | PL      | 117-81-7   |       |
| Fluoranthene                                  | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 206-44-0   |       |
| Fluorene                                      | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 86-73-7    |       |
| Hexachlorobenzene                             | Not detected | ug/L  | 1    | 8270C  | 09/07/11 20:15 | PL      | 118-74-1   |       |



# Analytical Laboratory Report

Lab Sample ID: S49882.04 (continued)

Sample Tag: P2-SB-20

| Analysis                                      | Results      | Units | RL   | Method      | Run Date/Time  | Analyst | CAS #      | Flags |
|---|--------------|-------|------|-------------|----------------|---------|------------|-------|
| <b>Organics - Semi-Volatiles (continued)</b>  |              |       |      |             |                |         |            |       |
| <b>TCL Semi-Volatile Organics (continued)</b> |              |       |      |             |                |         |            |       |
| Hexachlorobutadiene                           | Not detected | ug/L  | 1    | 8270C       | 09/07/11 20:15 | PL      | 87-68-3    |       |
| Hexachlorocyclopentadiene                     | Not detected | ug/L  | 1    | 8270C       | 09/07/11 20:15 | PL      | 77-47-4    |       |
| Hexachloroethane                              | Not detected | ug/L  | 1    | 8270C       | 09/07/11 20:15 | PL      | 67-72-1    |       |
| Indeno(1,2,3-cd)pyrene                        | Not detected | ug/L  | 1    | 8270C       | 09/07/11 20:15 | PL      | 193-39-5   |       |
| Isophorone                                    | Not detected | ug/L  | 1    | 8270C       | 09/07/11 20:15 | PL      | 78-59-1    |       |
| 2-Methylnaphthalene                           | Not detected | ug/L  | 1    | 8270C       | 09/07/11 20:15 | PL      | 91-57-6    |       |
| 2-Methylphenol                                | Not detected | ug/L  | 1    | 8270C       | 09/07/11 20:15 | PL      | 95-48-7    |       |
| 3-, 4-Methylphenol                            | Not detected | ug/L  | 1    | 8270C       | 09/07/11 20:15 | PL      | 3/4-Cresol |       |
| 2-Nitroaniline                                | Not detected | ug/L  | 1    | 8270C       | 09/07/11 20:15 | PL      | 88-74-4    |       |
| 2-Nitrophenol                                 | Not detected | ug/L  | 1    | 8270C       | 09/07/11 20:15 | PL      | 88-75-5    |       |
| 3-Nitroaniline                                | Not detected | ug/L  | 1    | 8270C       | 09/07/11 20:15 | PL      | 99-09-2    |       |
| 4-Nitroaniline                                | Not detected | ug/L  | 1    | 8270C       | 09/07/11 20:15 | PL      | 100-01-6   |       |
| 4-Nitrophenol                                 | Not detected | ug/L  | 1    | 8270C       | 09/07/11 20:15 | PL      | 100-02-7   |       |
| N-Nitrosodi-n-propylamine                     | Not detected | ug/L  | 1    | 8270C       | 09/07/11 20:15 | PL      | 621-64-7   |       |
| N-Nitrosodiphenylamine                        | Not detected | ug/L  | 1    | 8270C       | 09/07/11 20:15 | PL      | 86-30-6    |       |
| Naphthalene                                   | Not detected | ug/L  | 1    | 8270C       | 09/07/11 20:15 | PL      | 91-20-3    |       |
| Nitrobenzene                                  | Not detected | ug/L  | 1    | 8270C       | 09/07/11 20:15 | PL      | 98-95-3    |       |
| di-n-Octyl phthalate                          | Not detected | ug/L  | 1    | 8270C       | 09/07/11 20:15 | PL      | 117-84-0   |       |
| Pentachlorophenol                             | Not detected | ug/L  | 1    | 8270C       | 09/07/11 20:15 | PL      | 87-86-5    |       |
| Phenanthrene                                  | Not detected | ug/L  | 1    | 8270C       | 09/07/11 20:15 | PL      | 85-01-8    |       |
| Phenol  | Not detected | ug/L  | 1    | 8270C       | 09/07/11 20:15 | PL      | 108-95-2   |       |
| Pyrene  | Not detected | ug/L  | 1    | 8270C       | 09/07/11 20:15 | PL      | 129-00-0   |       |
| 2,4,5-Trichlorophenol                         | Not detected | ug/L  | 1    | 8270C       | 09/07/11 20:15 | PL      | 95-95-4    |       |
| 2,4,6-Trichlorophenol                         | Not detected | ug/L  | 1    | 8270C       | 09/07/11 20:15 | PL      | 88-06-2    |       |
| <b>Organics - Volatiles</b>                   |              |       |      |             |                |         |            |       |
| 1,2-Dibromo-3-chloropropane                   | Not detected | ug/L  | 0.05 | 8260B - SIM | 09/01/11 16:42 | JGH     | 96-12-8    |       |
| 1,2-Dibromoethane                             | Not detected | ug/L  | 0.02 | 8260B - SIM | 09/01/11 16:42 | JGH     | 106-93-4   |       |
| 1,4-Dioxane                                   | Not detected | ug/L  | 5    | 8260B - SIM | 09/01/11 16:42 | WAT     | 123-91-1   |       |
| <b>TCL Volatile Organics 8260</b>             |              |       |      |             |                |         |            |       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane         | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:52 | WAT     | 76-13-1    |       |
| Acetone                                       | Not detected | ug/L  | 10   | 8260B       | 09/06/11 21:52 | WAT     | 67-64-1    |       |
| Carbon disulfide                              | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:52 | WAT     | 75-15-0    |       |
| Methyl Acetate                                | Not detected | ug/L  | 10   | 8260B       | 09/06/11 21:52 | WAT     | 79-20-9    |       |
| tert-Methyl butyl ether (MTBE)                | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:52 | WAT     | 1634-04-4  |       |
| 2-Butanone (MEK)                              | Not detected | ug/L  | 10   | 8260B       | 09/06/11 21:52 | WAT     | 78-93-3    |       |
| Dichlorodifluoromethane                       | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:52 | WAT     | 75-71-8    |       |
| Chloromethane                                 | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:52 | WAT     | 74-87-3    |       |
| Vinyl chloride                                | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:52 | WAT     | 75-01-4    |       |
| Bromomethane                                  | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:52 | WAT     | 74-83-9    |       |
| Chloroethane                                  | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:52 | WAT     | 75-00-3    |       |
| Trichlorofluoromethane                        | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:52 | WAT     | 75-69-4    |       |
| 1,1-Dichloroethene                            | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:52 | WAT     | 75-35-4    |       |
| Methylene chloride                            | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:52 | WAT     | 75-09-2    |       |
| trans-1,2-Dichloroethene                      | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:52 | WAT     | 156-60-5   |       |
| 1,1-Dichloroethane                            | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:52 | WAT     | 75-34-3    |       |
| cis-1,2-Dichloroethene                        | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:52 | WAT     | 156-59-2   |       |
| Chloroform                                    | Not detected | ug/L  | 1    | 8260B       | 09/06/11 21:52 | WAT     | 67-66-3    |       |



# Analytical Laboratory Report

Lab Sample ID: S49882.04 (continued)

Sample Tag: P2-SB-20

| Analysis                                      | Results      | Units | RL | Method | Run Date/Time  | Analyst | CAS #      | Flags |
|---|--------------|-------|----|--------|----------------|---------|------------|-------|
| <b>Organics - Volatiles (continued)</b>       |              |       |    |        |                |         |            |       |
| <b>TCL Volatile Organics 8260 (continued)</b> |              |       |    |        |                |         |            |       |
| 1,1,1-Trichloroethane                         | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 71-55-6    |       |
| Cyclohexane                                   | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 110-82-7   |       |
| 4-Methyl-2-pentanone (MIBK)                   | Not detected | ug/L  | 10 | 8260B  | 09/06/11 21:52 | WAT     | 108-10-1   |       |
| 2-Hexanone                                    | Not detected | ug/L  | 10 | 8260B  | 09/06/11 21:52 | WAT     | 591-78-6   |       |
| Carbon tetrachloride                          | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 56-23-5    |       |
| Benzene                                       | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 71-43-2    |       |
| 1,2-Dichloroethane                            | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 107-06-2   |       |
| Trichloroethene                               | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 79-01-6    |       |
| 1,2-Dichloropropane                           | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 78-87-5    |       |
| Bromodichloromethane                          | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 75-27-4    |       |
| Methyl cyclohexane                            | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 108-87-2   |       |
| cis-1,3-Dichloropropene                       | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 10061-01-5 |       |
| Toluene                                       | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 108-88-3   |       |
| trans-1,3-Dichloropropene                     | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 10061-02-6 |       |
| 1,1,2-Trichloroethane                         | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 79-00-5    |       |
| Tetrachloroethene                             | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 127-18-4   |       |
| Dibromochloromethane                          | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 124-48-1   |       |
| 1,2-Dibromoethane                             | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 106-93-4   |       |
| Chlorobenzene                                 | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 108-90-7   |       |
| 1,1,2,2-Tetrachloroethane                     | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 79-34-5    |       |
| Ethylbenzene                                  | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 100-41-4   |       |
| p,m-Xylene                                    | Not detected | ug/L  | 2  | 8260B  | 09/06/11 21:52 | WAT     |            |       |
| o-Xylene                                      | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 95-47-6    |       |
| Styrene                                       | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 100-42-5   |       |
| Isopropylbenzene                              | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 98-82-8    |       |
| Bromoform                                     | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 75-25-2    |       |
| 1,3-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 541-73-1   |       |
| 1,4-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 106-46-7   |       |
| 1,2-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 95-50-1    |       |
| 1,2-Dibromo-3-chloropropane                   | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 96-12-8    |       |
| 1,2,4-Trichlorobenzene                        | Not detected | ug/L  | 1  | 8260B  | 09/06/11 21:52 | WAT     | 120-82-1   |       |



# Analytical Laboratory Report

Lab Sample ID: S49882.05  
 Sample Tag: Trip Blank-Merit-Water  
 Collected Date/Time: 08/31/2011 17:00  
 Matrix: Groundwater  
 COC Reference: 16135

Sample Containers

| # | Type       | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---|------------|-----------------|---------------|-------------------|---------------|
| 1 | 40ml Glass | HCL             | Yes           | 4.8               | IR            |

| Analysis                    | Results      | Units | RL   | Method      | Run Date/Time  | Analyst | CAS #    | Flags |
|-----------------------------|--------------|-------|------|-------------|----------------|---------|----------|-------|
| <b>Organics - Volatiles</b> |              |       |      |             |                |         |          |       |
| 1,2-Dibromo-3-chloropropane | Not detected | ug/L  | 0.05 | 8260B - SIM | 09/01/11 17:01 | JGH     | 96-12-8  |       |
| 1,2-Dibromoethane           | Not detected | ug/L  | 0.02 | 8260B - SIM | 09/01/11 17:01 | JGH     | 106-93-4 |       |
| 1,4-Dioxane                 | Not detected | ug/L  | 5    | 8260B - SIM | 09/01/11 17:01 | WAT     | 123-91-1 |       |

**TCL Volatile Organics 8260**

|                                       |              |      |    |       |                |     |            |  |
|---------------------------------------|--------------|------|----|-------|----------------|-----|------------|--|
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 76-13-1    |  |
| Acetone                               | Not detected | ug/L | 10 | 8260B | 09/06/11 22:11 | WAT | 67-64-1    |  |
| Carbon disulfide                      | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 75-15-0    |  |
| Methyl Acetate                        | Not detected | ug/L | 10 | 8260B | 09/06/11 22:11 | WAT | 79-20-9    |  |
| tert-Methyl butyl ether (MTBE)        | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 1634-04-4  |  |
| 2-Butanone (MEK)                      | Not detected | ug/L | 10 | 8260B | 09/06/11 22:11 | WAT | 78-93-3    |  |
| Dichlorodifluoromethane               | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 75-71-8    |  |
| Chloromethane                         | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 74-87-3    |  |
| Vinyl chloride                        | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 75-01-4    |  |
| Bromomethane                          | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 74-83-9    |  |
| Chloroethane                          | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 75-00-3    |  |
| Trichlorofluoromethane                | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 75-69-4    |  |
| 1,1-Dichloroethene                    | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 75-35-4    |  |
| Methylene chloride                    | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 75-09-2    |  |
| trans-1,2-Dichloroethene              | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 156-60-5   |  |
| 1,1-Dichloroethane                    | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 75-34-3    |  |
| cis-1,2-Dichloroethene                | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 156-59-2   |  |
| Chloroform                            | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 67-66-3    |  |
| 1,1,1-Trichloroethane                 | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 71-55-6    |  |
| Cyclohexane                           | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 110-82-7   |  |
| 4-Methyl-2-pentanone (MIBK)           | Not detected | ug/L | 10 | 8260B | 09/06/11 22:11 | WAT | 108-10-1   |  |
| 2-Hexanone                            | Not detected | ug/L | 10 | 8260B | 09/06/11 22:11 | WAT | 591-78-6   |  |
| Carbon tetrachloride                  | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 56-23-5    |  |
| Benzene                               | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 71-43-2    |  |
| 1,2-Dichloroethane                    | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 107-06-2   |  |
| Trichloroethene                       | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 79-01-6    |  |
| 1,2-Dichloropropane                   | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 78-87-5    |  |
| Bromodichloromethane                  | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 75-27-4    |  |
| Methyl cyclohexane                    | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 108-87-2   |  |
| cis-1,3-Dichloropropene               | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 10061-01-5 |  |
| Toluene                               | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 108-88-3   |  |
| trans-1,3-Dichloropropene             | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 10061-02-6 |  |
| 1,1,2-Trichloroethane                 | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 79-00-5    |  |
| Tetrachloroethene                     | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 127-18-4   |  |
| Dibromochloromethane                  | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 124-48-1   |  |
| 1,2-Dibromoethane                     | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 106-93-4   |  |
| Chlorobenzene                         | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 108-90-7   |  |
| 1,1,2,2-Tetrachloroethane             | Not detected | ug/L | 1  | 8260B | 09/06/11 22:11 | WAT | 79-34-5    |  |



# Analytical Laboratory Report

Lab Sample ID: S49882.05 (continued)

Sample Tag: Trip Blank-Merit-Water

| Analysis                                      | Results      | Units | RL | Method | Run Date/Time  | Analyst | CAS #    | Flags |
|---|--------------|-------|----|--------|----------------|---------|----------|-------|
| <b>Organics - Volatiles (continued)</b>       |              |       |    |        |                |         |          |       |
| <b>TCL Volatile Organics 8260 (continued)</b> |              |       |    |        |                |         |          |       |
| Ethylbenzene                                  | Not detected | ug/L  | 1  | 8260B  | 09/06/11 22:11 | WAT     | 100-41-4 |       |
| p,m-Xylene                                    | Not detected | ug/L  | 2  | 8260B  | 09/06/11 22:11 | WAT     |          |       |
| o-Xylene                                      | Not detected | ug/L  | 1  | 8260B  | 09/06/11 22:11 | WAT     | 95-47-6  |       |
| Styrene                                       | Not detected | ug/L  | 1  | 8260B  | 09/06/11 22:11 | WAT     | 100-42-5 |       |
| Isopropylbenzene                              | Not detected | ug/L  | 1  | 8260B  | 09/06/11 22:11 | WAT     | 98-82-8  |       |
| Bromoform                                     | Not detected | ug/L  | 1  | 8260B  | 09/06/11 22:11 | WAT     | 75-25-2  |       |
| 1,3-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 09/06/11 22:11 | WAT     | 541-73-1 |       |
| 1,4-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 09/06/11 22:11 | WAT     | 106-46-7 |       |
| 1,2-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 09/06/11 22:11 | WAT     | 95-50-1  |       |
| 1,2-Dibromo-3-chloropropane                   | Not detected | ug/L  | 1  | 8260B  | 09/06/11 22:11 | WAT     | 96-12-8  |       |
| 1,2,4-Trichlorobenzene                        | Not detected | ug/L  | 1  | 8260B  | 09/06/11 22:11 | WAT     | 120-82-1 |       |





# Analytical Laboratory Report

Lab Sample ID: S49982.01  
 Sample Tag: P2-SB-37  
 Collected Date/Time: 09/06/2011 08:40  
 Matrix: Oil  
 COC Reference: 16136

Sample Containers

| # | Type      | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---|-----------|-----------------|---------------|-------------------|---------------|
| 1 | 4oz Glass | None            | Yes           | 4.7               | IR            |

| Analysis | Results | Units | RL | Method | Run Date/Time | Analyst | CAS # | Flags |
|----------|---------|-------|----|--------|---------------|---------|-------|-------|
|----------|---------|-------|----|--------|---------------|---------|-------|-------|

**Extraction / Prep.**

|                 |           |  |  |       |                |     |  |  |
|-----------------|-----------|--|--|-------|----------------|-----|--|--|
| Extraction, PCB | Completed |  |  | 3550B | 09/09/11 13:33 | ADB |  |  |
|-----------------|-----------|--|--|-------|----------------|-----|--|--|

**Organics - PCBs/Pesticides**

**TCL PCB List (Column 1)**

|          |              |       |       |      |                |      |            |   |
|----------|--------------|-------|-------|------|----------------|------|------------|---|
| PCB-1016 | Not detected | ug/kg | 7,000 | 8082 | 09/13/11 13:21 | JANB | 12674-11-2 | Y |
| PCB-1242 | 45,000       | ug/kg | 7,000 | 8082 | 09/13/11 13:21 | JANB | 53469-21-9 | Y |
| PCB-1221 | Not detected | ug/kg | 7,000 | 8082 | 09/13/11 13:21 | JANB | 11104-28-2 | Y |
| PCB-1232 | Not detected | ug/kg | 7,000 | 8082 | 09/13/11 13:21 | JANB | 11141-16-5 | Y |
| PCB-1248 | Not detected | ug/kg | 7,000 | 8082 | 09/13/11 13:21 | JANB | 12672-29-6 | Y |
| PCB-1254 | Not detected | ug/kg | 7,000 | 8082 | 09/13/11 13:21 | JANB | 11097-69-1 | Y |
| PCB-1260 | Not detected | ug/kg | 7,000 | 8082 | 09/13/11 13:21 | JANB | 11096-82-5 | Y |

**TCL PCB List (Column 2)**

|          |              |       |         |      |                |      |            |   |
|----------|--------------|-------|---------|------|----------------|------|------------|---|
| PCB-1016 | Not detected | ug/kg | J 7,000 | 8082 | 09/13/11 13:21 | JANB | 12674-11-2 | Y |
| PCB-1242 | 52,000       | ug/kg | J 7,000 | 8082 | 09/13/11 13:21 | JANB | 53469-21-9 | Y |
| PCB-1221 | Not detected | ug/kg | J 7,000 | 8082 | 09/13/11 13:21 | JANB | 11104-28-2 | Y |
| PCB-1232 | Not detected | ug/kg | J 7,000 | 8082 | 09/13/11 13:21 | JANB | 11141-16-5 | Y |
| PCB-1248 | Not detected | ug/kg | J 7,000 | 8082 | 09/13/11 13:21 | JANB | 12672-29-6 | Y |
| PCB-1254 | Not detected | ug/kg | J 7,000 | 8082 | 09/13/11 13:21 | JANB | 11097-69-1 | Y |
| PCB-1260 | Not detected | ug/kg | J 7,000 | 8082 | 09/13/11 13:21 | JANB | 11096-82-5 | Y |

**Organics - Volatiles**

|                             |              |       |       |             |                |     |          |    |
|-----------------------------|--------------|-------|-------|-------------|----------------|-----|----------|----|
| 1,2-Dibromo-3-chloropropane | Not detected | ug/kg | J 30  | 8260B - SIM | 09/19/11 17:52 | WAT | 96-12-8  | X  |
| 1,2-Dibromoethane           | Not detected | ug/kg | J 10  | 8260B - SIM | 09/19/11 17:52 | WAT | 106-93-4 | XI |
| 1,4-Dioxane                 | Not detected | ug/kg | 3,000 | 8260B       | 09/19/11 17:52 | WAT | 123-91-1 | *  |

**TCL Volatile Organics HighLevel 5035/8260**

|                                       |              |       |        |            |                |     |           |   |
|---------------------------------------|--------------|-------|--------|------------|----------------|-----|-----------|---|
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT | 76-13-1   | Y |
| Acetone                               | Not detected | ug/kg | 50,000 | 5035/8260B | 09/20/11 16:08 | WAT | 67-64-1   | Y |
| Carbon disulfide                      | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT | 75-15-0   | Y |
| Methyl Acetate                        | Not detected | ug/kg | 50,000 | 5035/8260B | 09/20/11 16:08 | WAT | 79-20-9   | Y |
| tert-Methyl butyl ether (MTBE)        | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT | 1634-04-4 | Y |
| 2-Butanone (MEK)                      | Not detected | ug/kg | 50,000 | 5035/8260B | 09/20/11 16:08 | WAT | 78-93-3   | Y |
| Dichlorodifluoromethane               | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT | 75-71-8   | Y |
| Chloromethane                         | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT | 74-87-3   | Y |
| Vinyl chloride                        | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT | 75-01-4   | Y |
| Bromomethane                          | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT | 74-83-9   | Y |
| Chloroethane                          | 181,000      | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT | 75-00-3   | Y |
| Trichlorofluoromethane                | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT | 75-69-4   | Y |
| 1,1-Dichloroethene                    | 7,000        | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT | 75-35-4   | Y |

Y-Elevated reporting limit due to high target concentration  
 X-Elevated reporting limit due to matrix interference  
 I-Matrix interference with internal standard



# Analytical Laboratory Report

Lab Sample ID: S49982.01 (continued)

Sample Tag: P2-SB-37

| Analysis   | Results      | Units | RL     | Method     | Run Date/Time  | Analyst | CAS #      | Flags |
|--|--------------|-------|--------|------------|----------------|---------|------------|-------|
| <b>Organics - Volatiles (continued)</b>                      |              |       |        |            |                |         |            |       |
| <b>TCL Volatile Organics HighLevel 5035/8260 (continued)</b> |              |       |        |            |                |         |            |       |
| Methylene chloride   | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 75-09-2    | Y     |
| trans-1,2-Dichloroethene                                     | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 156-60-5   | Y     |
| 1,1-Dichloroethane   | 277,000      | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 75-34-3    | Y     |
| cis-1,2-Dichloroethene                                       | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 156-59-2   | Y     |
| Chloroform   | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 67-66-3    | Y     |
| 1,1,1-Trichloroethane  | 476,000      | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 71-55-6    | Y     |
| Cyclohexane  | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 110-82-7   | Y     |
| 4-Methyl-2-pentanone (MIBK)                                  | Not detected | ug/kg | 50,000 | 5035/8260B | 09/20/11 16:08 | WAT     | 108-10-1   | Y     |
| 2-Hexanone   | Not detected | ug/kg | 50,000 | 5035/8260B | 09/20/11 16:08 | WAT     | 591-78-6   | Y     |
| Carbon tetrachloride   | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 56-23-5    | Y     |
| Benzene  | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 71-43-2    | Y     |
| 1,2-Dichloroethane   | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 107-06-2   | Y     |
| Trichloroethene  | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 79-01-6    | Y     |
| 1,2-Dichloropropane  | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 78-87-5    | Y     |
| Bromodichloromethane   | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 75-27-4    | Y     |
| Methyl cyclohexane   | 6,000        | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 108-87-2   | Y     |
| cis-1,3-Dichloropropene                                      | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 10061-01-5 | Y     |
| Toluene  | 11,000       | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 108-88-3   | Y     |
| trans-1,3-Dichloropropene                                    | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 10061-02-6 | Y     |
| 1,1,2-Trichloroethane  | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 79-00-5    | Y     |
| Tetrachloroethene  | 8,000        | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 127-18-4   | Y     |
| Dibromochloromethane   | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 124-48-1   | Y     |
| 1,2-Dibromoethane  | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 106-93-4   | Y     |
| Chlorobenzene  | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 108-90-7   | Y     |
| 1,1,2,2-Tetrachloroethane                                    | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 79-34-5    | Y     |
| Ethylbenzene   | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 100-41-4   | Y     |
| p,m-Xylene   | Not detected | ug/kg | 10,000 | 5035/8260B | 09/20/11 16:08 | WAT     |            | Y     |
| o-Xylene   | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 95-47-6    | Y     |
| Styrene  | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 100-42-5   | Y     |
| Isopropylbenzene   | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 98-82-8    | Y     |
| Bromoform  | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 75-25-2    | Y     |
| 1,3-Dichlorobenzene  | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 541-73-1   | Y     |
| 1,4-Dichlorobenzene  | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 106-46-7   | Y     |
| 1,2-Dichlorobenzene  | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 95-50-1    | Y     |
| 1,2-Dibromo-3-chloropropane                                  | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 96-12-8    | Y     |
| 1,2,4-Trichlorobenzene                                       | Not detected | ug/kg | 5,000  | 5035/8260B | 09/20/11 16:08 | WAT     | 120-82-1   | Y     |

Y-Elevated reporting limit due to high target concentration



# Analytical Laboratory Report

Lab Sample ID: S49982.02  
 Sample Tag: P2-SB-6  
 Collected Date/Time: 09/06/2011 20:30  
 Matrix: Wastewater  
 COC Reference: 16136

## Sample Containers

| # | Type          | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---|---------------|-----------------|---------------|-------------------|---------------|
| 2 | 1L Amber      | None            | Yes           | 4.7               | IR            |
| 2 | 40ml Glass    | HCL             | Yes           | 4.7               | IR            |
| 1 | 125ml Plastic | HNO3            | Yes           | 4.7               | IR            |

| Analysis | Results | Units | RL | Method | Run Date/Time | Analyst | CAS # | Flags |
|----------|---------|-------|----|--------|---------------|---------|-------|-------|
|----------|---------|-------|----|--------|---------------|---------|-------|-------|

### Extraction / Prep.

|                   |           |  |  |       |                |     |  |  |
|-------------------|-----------|--|--|-------|----------------|-----|--|--|
| BNA Extraction    | Completed |  |  | 3510C | 09/13/11 18:30 | EMR |  |  |
| Mercury Digestion | Completed |  |  | 7471A | 09/12/11 12:10 | JRH |  |  |
| Metal Digestion   | Completed |  |  | 3015A | 09/21/11 01:00 | SLR |  |  |

### Metals

|           |              |      |        |       |                |     |           |  |
|-----------|--------------|------|--------|-------|----------------|-----|-----------|--|
| Antimony  | Not detected | mg/L | 0.005  | 6020  | 09/21/11 15:26 | SLS | 7440-36-0 |  |
| Arsenic   | 0.0183       | mg/L | 0.0005 | 6020  | 09/21/11 15:26 | SLS | 7440-38-2 |  |
| Barium    | 0.876        | mg/L | 0.005  | 6020  | 09/21/11 15:26 | SLS | 7440-39-3 |  |
| Beryllium | 0.0007       | mg/L | 0.0005 | 6020  | 09/21/11 15:26 | SLS | 7440-41-7 |  |
| Boron     | 0.444        | mg/L | 0.005  | 6020  | 09/22/11 12:45 | SLS | 7440-42-8 |  |
| Cadmium   | Not detected | mg/L | 0.0005 | 6020  | 09/21/11 15:26 | SLS | 7440-43-9 |  |
| Chromium  | Not detected | mg/L | 0.005  | 6020  | 09/21/11 15:26 | SLS | 7440-47-3 |  |
| Cobalt    | Not detected | mg/L | 0.005  | 6020  | 09/21/11 15:26 | SLS | 7440-48-4 |  |
| Copper    | Not detected | mg/L | 0.0025 | 6020  | 09/21/11 15:26 | SLS | 7440-50-8 |  |
| Lead      | 0.0150       | mg/L | 0.0025 | 6020  | 09/21/11 15:26 | SLS | 7439-92-1 |  |
| Manganese | 0.118        | mg/L | 0.005  | 6020  | 09/21/11 15:26 | SLS | 7439-96-5 |  |
| Mercury   | Not detected | mg/L | 0.0001 | 7471A | 09/12/11 16:12 | JRT | 7439-97-6 |  |
| Nickel    | 0.006        | mg/L | 0.005  | 6020  | 09/21/11 15:26 | SLS | 7440-02-0 |  |
| Selenium  | Not detected | mg/L | 0.005  | 6020  | 09/21/11 15:26 | SLS | 7782-49-2 |  |
| Silver    | Not detected | mg/L | 0.0005 | 6020  | 09/21/11 15:26 | SLS | 7440-22-4 |  |
| Thallium  | Not detected | mg/L | 0.0005 | 6020  | 09/21/11 15:26 | SLS | 7440-28-0 |  |
| Vanadium  | Not detected | mg/L | 0.0025 | 6020  | 09/21/11 15:26 | SLS | 7440-62-2 |  |
| Zinc      | Not detected | mg/L | 0.005  | 6020  | 09/21/11 15:26 | SLS | 7440-66-6 |  |

### Organics - Semi-Volatiles

|                        |              |      |      |       |                |    |          |  |
|------------------------|--------------|------|------|-------|----------------|----|----------|--|
| 3,3'-Dichlorobenzidine | Not detected | ug/L | 0.05 | 8270C | 09/15/11 14:21 | PL | 91-94-1  |  |
| Hexachlorobenzene      | Not detected | ug/L | 0.05 | 8270C | 09/15/11 14:21 | PL | 118-74-1 |  |

### TCL Semi-Volatile Organics

|                            |              |      |   |       |                |    |           |  |
|----------------------------|--------------|------|---|-------|----------------|----|-----------|--|
| Acenaphthene               | Not detected | ug/L | 1 | 8270C | 09/15/11 17:04 | PL | 83-32-9   |  |
| Acenaphthylene             | Not detected | ug/L | 1 | 8270C | 09/15/11 17:04 | PL | 208-96-8  |  |
| Acetophenone               | Not detected | ug/L | 1 | 8270C | 09/15/11 17:04 | PL | 98-86-2   |  |
| Anthracene                 | Not detected | ug/L | 1 | 8270C | 09/15/11 17:04 | PL | 120-12-7  |  |
| Atrazine                   | Not detected | ug/L | 1 | 8270C | 09/15/11 17:04 | PL | 1912-24-9 |  |
| 1,1'-Biphenyl              | Not detected | ug/L | 1 | 8270C | 09/15/11 17:04 | PL | 92-52-4   |  |
| 4-Bromophenyl phenyl ether | Not detected | ug/L | 1 | 8270C | 09/15/11 17:04 | PL | 101-55-3  |  |
| di-n-Butyl phthalate       | Not detected | ug/L | 1 | 8270C | 09/15/11 17:04 | PL | 84-74-2   |  |
| Benzaldehyde               | Not detected | ug/L | 1 | 8270C | 09/15/11 17:04 | PL | 100-52-7  |  |
| Benzo(a)anthracene         | Not detected | ug/L | 1 | 8270C | 09/15/11 17:04 | PL | 56-55-3   |  |
| Benzo(a)pyrene             | Not detected | ug/L | 1 | 8270C | 09/15/11 17:04 | PL | 50-32-8   |  |
| Benzo(b)fluoranthene       | Not detected | ug/L | 1 | 8270C | 09/15/11 17:04 | PL | 205-99-2  |  |



# Analytical Laboratory Report

Lab Sample ID: S49982.02 (continued)

Sample Tag: P2-SB-6

| Analysis                                      | Results      | Units | RL | Method  | Run Date/Time  | Analyst | CAS #      | Flags |
|---|--------------|-------|----|---------|----------------|---------|------------|-------|
| <b>Organics - Semi-Volatiles (continued)</b>  |              |       |    |         |                |         |            |       |
| <b>TCL Semi-Volatile Organics (continued)</b> |              |       |    |         |                |         |            |       |
| Benzo(ghi)perylene                            | Not detected | ug/L  | 1  | J 8270C | 09/15/11 17:04 | PL      | 191-24-2   |       |
| Benzo(k)fluoranthene                          | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 207-08-9   |       |
| Butyl benzyl phthalate                        | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 85-68-7    |       |
| 2-Chloronaphthalene                           | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 91-58-7    |       |
| 2-Chlorophenol                                | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 95-57-8    |       |
| 4-Chloro-3-methylphenol                       | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 59-50-7    |       |
| 4-Chloroaniline                               | Not detected | ug/L  | 2  | 8270C   | 09/15/11 17:04 | PL      | 106-47-8   |       |
| 4-Chlorophenyl phenyl ether                   | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 7005-72-3  |       |
| Caprolactam                                   | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 105-60-2   |       |
| Carbazole                                     | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 86-74-8    |       |
| bis(2-Chloroethoxy)methane                    | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 111-91-1   |       |
| bis(2-Chloroethyl)ether                       | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 111-44-4   |       |
| bis(2-Chloroisopropyl)ether                   | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 108-60-1   |       |
| Chrysene                                      | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 218-01-9   |       |
| 2,4-Dichlorophenol                            | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 120-83-2   |       |
| 2,4-Dimethylphenol                            | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 105-67-9   |       |
| 2,4-Dinitrophenol                             | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 51-28-5    |       |
| 2,4-Dinitrotoluene                            | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 121-14-2   |       |
| 2,6-Dinitrotoluene                            | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 606-20-2   |       |
| 3,3'-Dichlorobenzidine                        | Not detected | ug/L  | 2  | 8270C   | 09/15/11 17:04 | PL      | 91-94-1    |       |
| 4,6-Dinitro-2-methylphenol                    | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 534-52-1   |       |
| Dibenzo(ah)anthracene                         | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 53-70-3    |       |
| Dibenzofuran                                  | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 132-64-9   |       |
| Diethyl phthalate                             | Not detected | ug/L  | 2  | 8270C   | 09/15/11 17:04 | PL      | 84-66-2    |       |
| Dimethyl phthalate                            | Not detected | ug/L  | 2  | 8270C   | 09/15/11 17:04 | PL      | 131-11-3   |       |
| bis(2-Ethylhexyl)phthalate                    | Not detected | ug/L  | 2  | 8270C   | 09/15/11 17:04 | PL      | 117-81-7   |       |
| Fluoranthene                                  | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 206-44-0   |       |
| Fluorene                                      | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 86-73-7    |       |
| Hexachlorobenzene                             | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 118-74-1   |       |
| Hexachlorobutadiene                           | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 87-68-3    |       |
| Hexachlorocyclopentadiene                     | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 77-47-4    |       |
| Hexachloroethane                              | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 67-72-1    |       |
| Indeno(1,2,3-cd)pyrene                        | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 193-39-5   |       |
| Isophorone                                    | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 78-59-1    |       |
| 2-Methylnaphthalene                           | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 91-57-6    |       |
| 2-Methylphenol                                | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 95-48-7    |       |
| 3-, 4-Methylphenol                            | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 3/4-Cresol |       |
| 2-Nitroaniline                                | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 88-74-4    |       |
| 2-Nitrophenol                                 | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 88-75-5    |       |
| 3-Nitroaniline                                | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 99-09-2    |       |
| 4-Nitroaniline                                | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 100-01-6   |       |
| 4-Nitrophenol                                 | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 100-02-7   |       |
| N-Nitrosodi-n-propylamine                     | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 621-64-7   |       |
| N-Nitrosodiphenylamine                        | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 86-30-6    |       |
| Naphthalene                                   | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 91-20-3    |       |
| Nitrobenzene                                  | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 98-95-3    |       |
| di-n-Octyl phthalate                          | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 117-84-0   |       |
| Pentachlorophenol                             | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 87-86-5    |       |
| Phenanthrene                                  | Not detected | ug/L  | 1  | 8270C   | 09/15/11 17:04 | PL      | 85-01-8    |       |



# Analytical Laboratory Report

Lab Sample ID: S49982.02 (continued)

Sample Tag: P2-SB-6

| Analysis                                      | Results      | Units | RL   | Method      | Run Date/Time  | Analyst | CAS #      | Flags |
|---|--------------|-------|------|-------------|----------------|---------|------------|-------|
| <b>Organics - Semi-Volatiles (continued)</b>  |              |       |      |             |                |         |            |       |
| <b>TCL Semi-Volatile Organics (continued)</b> |              |       |      |             |                |         |            |       |
| Phenol  | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:04 | PL      | 108-95-2   |       |
| Pyrene  | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:04 | PL      | 129-00-0   |       |
| 2,4,5-Trichlorophenol                         | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:04 | PL      | 95-95-4    |       |
| 2,4,6-Trichlorophenol                         | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:04 | PL      | 88-06-2    |       |
| <b>Organics - Volatiles</b>                   |              |       |      |             |                |         |            |       |
| 1,2-Dibromo-3-chloropropane                   | Not detected | ug/L  | 0.05 | 8260B - SIM | 09/19/11 16:00 | WAT     | 96-12-8    |       |
| 1,2-Dibromoethane                             | Not detected | ug/L  | 0.02 | 8260B - SIM | 09/19/11 16:00 | WAT     | 106-93-4   |       |
| 1,4-Dioxane                                   | 30           | ug/L  | 5    | 8260B - SIM | 09/19/11 16:00 | WAT     | 123-91-1   |       |
| <b>TCL Volatile Organics 8260</b>             |              |       |      |             |                |         |            |       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane         | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 76-13-1    |       |
| Acetone                                       | Not detected | ug/L  | 10   | 8260B       | 09/19/11 18:16 | WAT     | 67-64-1    |       |
| Carbon disulfide                              | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 75-15-0    |       |
| Methyl Acetate                                | Not detected | ug/L  | 10   | 8260B       | 09/19/11 18:16 | WAT     | 79-20-9    |       |
| tert-Methyl butyl ether (MTBE)                | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 1634-04-4  |       |
| 2-Butanone (MEK)                              | Not detected | ug/L  | 10   | 8260B       | 09/19/11 18:16 | WAT     | 78-93-3    |       |
| Dichlorodifluoromethane                       | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 75-71-8    |       |
| Chloromethane                                 | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 74-87-3    |       |
| Vinyl chloride                                | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 75-01-4    |       |
| Bromomethane                                  | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 74-83-9    |       |
| Chloroethane                                  | 1            | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 75-00-3    |       |
| Trichlorofluoromethane                        | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 75-69-4    |       |
| 1,1-Dichloroethene                            | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 75-35-4    |       |
| Methylene chloride                            | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 75-09-2    |       |
| trans-1,2-Dichloroethene                      | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 156-60-5   |       |
| 1,1-Dichloroethane                            | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 75-34-3    |       |
| cis-1,2-Dichloroethene                        | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 156-59-2   |       |
| Chloroform                                    | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 67-66-3    |       |
| 1,1,1-Trichloroethane                         | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 71-55-6    |       |
| Cyclohexane                                   | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 110-82-7   |       |
| 4-Methyl-2-pentanone (MIBK)                   | Not detected | ug/L  | 10   | 8260B       | 09/19/11 18:16 | WAT     | 108-10-1   |       |
| 2-Hexanone                                    | Not detected | ug/L  | 10   | 8260B       | 09/19/11 18:16 | WAT     | 591-78-6   |       |
| Carbon tetrachloride                          | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 56-23-5    |       |
| Benzene                                       | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 71-43-2    |       |
| 1,2-Dichloroethane                            | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 107-06-2   |       |
| Trichloroethene                               | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 79-01-6    |       |
| 1,2-Dichloropropane                           | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 78-87-5    |       |
| Bromodichloromethane                          | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 75-27-4    |       |
| Methyl cyclohexane                            | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 108-87-2   |       |
| cis-1,3-Dichloropropene                       | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 10061-01-5 |       |
| Toluene                                       | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 108-88-3   |       |
| trans-1,3-Dichloropropene                     | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 10061-02-6 |       |
| 1,1,2-Trichloroethane                         | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 79-00-5    |       |
| Tetrachloroethene                             | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 127-18-4   |       |
| Dibromochloromethane                          | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 124-48-1   |       |
| 1,2-Dibromoethane                             | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 106-93-4   |       |
| Chlorobenzene                                 | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 108-90-7   |       |
| 1,1,2,2-Tetrachloroethane                     | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:16 | WAT     | 79-34-5    |       |



# Analytical Laboratory Report

Lab Sample ID: S49982.02 (continued)

Sample Tag: P2-SB-6

| Analysis                                      | Results      | Units | RL | Method | Run Date/Time  | Analyst | CAS #    | Flags |
|---|--------------|-------|----|--------|----------------|---------|----------|-------|
| <b>Organics - Volatiles (continued)</b>       |              |       |    |        |                |         |          |       |
| <b>TCL Volatile Organics 8260 (continued)</b> |              |       |    |        |                |         |          |       |
| Ethylbenzene                                  | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:16 | WAT     | 100-41-4 |       |
| p,m-Xylene                                    | Not detected | ug/L  | 2  | 8260B  | 09/19/11 18:16 | WAT     |          |       |
| o-Xylene                                      | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:16 | WAT     | 95-47-6  |       |
| Styrene                                       | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:16 | WAT     | 100-42-5 |       |
| Isopropylbenzene                              | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:16 | WAT     | 98-82-8  |       |
| Bromoform                                     | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:16 | WAT     | 75-25-2  |       |
| 1,3-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:16 | WAT     | 541-73-1 |       |
| 1,4-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:16 | WAT     | 106-46-7 |       |
| 1,2-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:16 | WAT     | 95-50-1  |       |
| 1,2-Dibromo-3-chloropropane                   | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:16 | WAT     | 96-12-8  |       |
| 1,2,4-Trichlorobenzene                        | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:16 | WAT     | 120-82-1 |       |



# Analytical Laboratory Report

Lab Sample ID: S49982.03  
 Sample Tag: P2-MW-2  
 Collected Date/Time: 09/07/2011 16:55  
 Matrix: Wastewater  
 COC Reference: 16136

Sample Containers

| # | Type          | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---|---------------|-----------------|---------------|-------------------|---------------|
| 1 | 125ml Plastic | HNO3            | Yes           | 4.7               | IR            |

| Analysis | Results | Units | RL | Method | Run Date/Time | Analyst | CAS # | Flags |
|----------|---------|-------|----|--------|---------------|---------|-------|-------|
|----------|---------|-------|----|--------|---------------|---------|-------|-------|

**Extraction / Prep.**

|                   |           |  |  |       |                |     |  |  |
|-------------------|-----------|--|--|-------|----------------|-----|--|--|
| Mercury Digestion | Completed |  |  | 7471A | 09/12/11 12:10 | JRH |  |  |
| Metal Digestion   | Completed |  |  | 3015A | 09/21/11 01:00 | SLR |  |  |

**Metals**

|           |              |      |        |       |                |     |           |  |
|-----------|--------------|------|--------|-------|----------------|-----|-----------|--|
| Antimony  | Not detected | mg/L | 0.005  | 6020  | 09/21/11 15:30 | SLS | 7440-36-0 |  |
| Arsenic   | 0.0327       | mg/L | 0.0005 | 6020  | 09/21/11 15:30 | SLS | 7440-38-2 |  |
| Barium    | 0.237        | mg/L | 0.005  | 6020  | 09/21/11 15:30 | SLS | 7440-39-3 |  |
| Beryllium | 0.0008       | mg/L | 0.0005 | 6020  | 09/21/11 15:30 | SLS | 7440-41-7 |  |
| Boron     | 0.069        | mg/L | 0.005  | 6020  | 09/22/11 12:48 | SLS | 7440-42-8 |  |
| Cadmium   | Not detected | mg/L | 0.0005 | 6020  | 09/21/11 15:30 | SLS | 7440-43-9 |  |
| Chromium  | 0.058        | mg/L | 0.005  | 6020  | 09/21/11 15:30 | SLS | 7440-47-3 |  |
| Cobalt    | Not detected | mg/L | 0.005  | 6020  | 09/21/11 15:30 | SLS | 7440-48-4 |  |
| Copper    | Not detected | mg/L | 0.0025 | 6020  | 09/21/11 15:30 | SLS | 7440-50-8 |  |
| Lead      | 0.0046       | mg/L | 0.0025 | 6020  | 09/21/11 15:30 | SLS | 7439-92-1 |  |
| Manganese | 0.061        | mg/L | 0.005  | 6020  | 09/21/11 15:30 | SLS | 7439-96-5 |  |
| Mercury   | Not detected | mg/L | 0.0001 | 7471A | 09/12/11 16:05 | JRT | 7439-97-6 |  |
| Nickel    | 0.032        | mg/L | 0.005  | 6020  | 09/21/11 15:30 | SLS | 7440-02-0 |  |
| Selenium  | Not detected | mg/L | 0.005  | 6020  | 09/21/11 15:30 | SLS | 7782-49-2 |  |
| Silver    | Not detected | mg/L | 0.0005 | 6020  | 09/21/11 15:30 | SLS | 7440-22-4 |  |
| Thallium  | Not detected | mg/L | 0.0005 | 6020  | 09/21/11 15:30 | SLS | 7440-28-0 |  |
| Vanadium  | Not detected | mg/L | 0.0025 | 6020  | 09/21/11 15:30 | SLS | 7440-62-2 |  |
| Zinc      | Not detected | mg/L | 0.005  | 6020  | 09/21/11 15:30 | SLS | 7440-66-6 |  |



# Analytical Laboratory Report

Lab Sample ID: S49982.04  
 Sample Tag: Duplicate  
 Collected Date/Time: 09/07/2011 17:00  
 Matrix: Wastewater  
 COC Reference: 16136

Sample Containers

| # | Type          | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---|---------------|-----------------|---------------|-------------------|---------------|
| 1 | 125ml Plastic | HNO3            | Yes           | 4.7               | IR            |

| Analysis | Results | Units | RL | Method | Run Date/Time | Analyst | CAS # | Flags |
|----------|---------|-------|----|--------|---------------|---------|-------|-------|
|----------|---------|-------|----|--------|---------------|---------|-------|-------|

**Extraction / Prep.**

|                   |           |  |  |       |                |     |  |  |
|-------------------|-----------|--|--|-------|----------------|-----|--|--|
| Mercury Digestion | Completed |  |  | 7471A | 09/12/11 12:10 | JRH |  |  |
| Metal Digestion   | Completed |  |  | 3015A | 09/21/11 01:00 | SLR |  |  |

**Metals**

|           |              |      |        |       |                |     |           |  |
|-----------|--------------|------|--------|-------|----------------|-----|-----------|--|
| Antimony  | Not detected | mg/L | 0.005  | 6020  | 09/21/11 15:35 | SLS | 7440-36-0 |  |
| Arsenic   | 0.0326       | mg/L | 0.0005 | 6020  | 09/21/11 15:35 | SLS | 7440-38-2 |  |
| Barium    | 0.235        | mg/L | 0.005  | 6020  | 09/21/11 15:35 | SLS | 7440-39-3 |  |
| Beryllium | 0.0006       | mg/L | 0.0005 | 6020  | 09/21/11 15:35 | SLS | 7440-41-7 |  |
| Boron     | 0.062        | mg/L | 0.005  | 6020  | 09/22/11 12:51 | SLS | 7440-42-8 |  |
| Cadmium   | Not detected | mg/L | 0.0005 | 6020  | 09/21/11 15:35 | SLS | 7440-43-9 |  |
| Chromium  | 0.059        | mg/L | 0.005  | 6020  | 09/21/11 15:35 | SLS | 7440-47-3 |  |
| Cobalt    | Not detected | mg/L | 0.005  | 6020  | 09/21/11 15:35 | SLS | 7440-48-4 |  |
| Copper    | Not detected | mg/L | 0.0025 | 6020  | 09/21/11 15:35 | SLS | 7440-50-8 |  |
| Lead      | Not detected | mg/L | 0.0025 | 6020  | 09/21/11 15:35 | SLS | 7439-92-1 |  |
| Manganese | 0.061        | mg/L | 0.005  | 6020  | 09/21/11 15:35 | SLS | 7439-96-5 |  |
| Mercury   | Not detected | mg/L | 0.0001 | 7471A | 09/12/11 16:08 | JRT | 7439-97-6 |  |
| Nickel    | 0.031        | mg/L | 0.005  | 6020  | 09/21/11 15:35 | SLS | 7440-02-0 |  |
| Selenium  | Not detected | mg/L | 0.005  | 6020  | 09/21/11 15:35 | SLS | 7782-49-2 |  |
| Silver    | Not detected | mg/L | 0.0005 | 6020  | 09/21/11 15:35 | SLS | 7440-22-4 |  |
| Thallium  | Not detected | mg/L | 0.0005 | 6020  | 09/21/11 15:35 | SLS | 7440-28-0 |  |
| Vanadium  | Not detected | mg/L | 0.0025 | 6020  | 09/21/11 15:35 | SLS | 7440-62-2 |  |
| Zinc      | Not detected | mg/L | 0.005  | 6020  | 09/21/11 15:35 | SLS | 7440-66-6 |  |



# Analytical Laboratory Report

Lab Sample ID: S49982.05  
 Sample Tag: Equipment blank  
 Collected Date/Time: 09/08/2011 11:00  
 Matrix: Wastewater  
 COC Reference: 16136

Sample Containers

| # | Type          | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---|---------------|-----------------|---------------|-------------------|---------------|
| 3 | 1L Amber      | None            | Yes           | 4.7               | IR            |
| 2 | 40ml Glass    | HCL             | Yes           | 4.7               | IR            |
| 1 | 125ml Plastic | HNO3            | Yes           | 4.7               | IR            |

| Analysis | Results | Units | RL | Method | Run Date/Time | Analyst | CAS # | Flags |
|----------|---------|-------|----|--------|---------------|---------|-------|-------|
|----------|---------|-------|----|--------|---------------|---------|-------|-------|

**Extraction / Prep.**

|                   |           |  |  |       |                |     |  |  |
|-------------------|-----------|--|--|-------|----------------|-----|--|--|
| BNA Extraction    | Completed |  |  | 3510C | 09/13/11 18:25 | EMR |  |  |
| Extraction, PCB   | Completed |  |  | 3510C | 09/12/11 15:31 | ADB |  |  |
| Mercury Digestion | Completed |  |  | 7471A | 09/12/11 12:10 | JRH |  |  |
| Metal Digestion   | Completed |  |  | 3015A | 09/21/11 01:00 | SLR |  |  |

**Metals**

|           |              |      |        |       |                |     |           |  |
|-----------|--------------|------|--------|-------|----------------|-----|-----------|--|
| Antimony  | Not detected | mg/L | 0.005  | 6020  | 09/21/11 15:40 | SLS | 7440-36-0 |  |
| Arsenic   | Not detected | mg/L | 0.0005 | 6020  | 09/21/11 15:40 | SLS | 7440-38-2 |  |
| Barium    | Not detected | mg/L | 0.005  | 6020  | 09/21/11 15:40 | SLS | 7440-39-3 |  |
| Beryllium | 0.0008       | mg/L | 0.0005 | 6020  | 09/21/11 15:40 | SLS | 7440-41-7 |  |
| Boron     | 0.008        | mg/L | 0.005  | 6020  | 09/22/11 12:55 | SLS | 7440-42-8 |  |
| Cadmium   | Not detected | mg/L | 0.0005 | 6020  | 09/21/11 15:40 | SLS | 7440-43-9 |  |
| Chromium  | Not detected | mg/L | 0.005  | 6020  | 09/21/11 15:40 | SLS | 7440-47-3 |  |
| Cobalt    | Not detected | mg/L | 0.005  | 6020  | 09/21/11 15:40 | SLS | 7440-48-4 |  |
| Copper    | Not detected | mg/L | 0.0025 | 6020  | 09/21/11 15:40 | SLS | 7440-50-8 |  |
| Lead      | Not detected | mg/L | 0.0025 | 6020  | 09/21/11 15:40 | SLS | 7439-92-1 |  |
| Manganese | Not detected | mg/L | 0.005  | 6020  | 09/21/11 15:40 | SLS | 7439-96-5 |  |
| Mercury   | Not detected | mg/L | 0.0001 | 7471A | 09/12/11 16:10 | JRT | 7439-97-6 |  |
| Nickel    | Not detected | mg/L | 0.005  | 6020  | 09/21/11 15:40 | SLS | 7440-02-0 |  |
| Selenium  | Not detected | mg/L | 0.005  | 6020  | 09/21/11 15:40 | SLS | 7782-49-2 |  |
| Silver    | Not detected | mg/L | 0.0005 | 6020  | 09/21/11 15:40 | SLS | 7440-22-4 |  |
| Thallium  | Not detected | mg/L | 0.0005 | 6020  | 09/21/11 15:40 | SLS | 7440-28-0 |  |
| Vanadium  | Not detected | mg/L | 0.0025 | 6020  | 09/21/11 15:40 | SLS | 7440-62-2 |  |
| Zinc      | Not detected | mg/L | 0.005  | 6020  | 09/21/11 15:40 | SLS | 7440-66-6 |  |

**Organics - PCBs/Pesticides**

**TCL PCB List (Column 1)**

|          |              |      |      |      |                |      |            |  |
|----------|--------------|------|------|------|----------------|------|------------|--|
| PCB-1016 | Not detected | ug/L | 0.06 | 8082 | 09/12/11 14:45 | JANB | 12674-11-2 |  |
| PCB-1242 | Not detected | ug/L | 0.06 | 8082 | 09/12/11 14:45 | JANB | 53469-21-9 |  |
| PCB-1221 | Not detected | ug/L | 0.06 | 8082 | 09/12/11 14:45 | JANB | 11104-28-2 |  |
| PCB-1232 | Not detected | ug/L | 0.06 | 8082 | 09/12/11 14:45 | JANB | 11141-16-5 |  |
| PCB-1248 | Not detected | ug/L | 0.06 | 8082 | 09/12/11 14:45 | JANB | 12672-29-6 |  |
| PCB-1254 | Not detected | ug/L | 0.06 | 8082 | 09/12/11 14:45 | JANB | 11097-69-1 |  |
| PCB-1260 | Not detected | ug/L | 0.06 | 8082 | 09/12/11 14:45 | JANB | 11096-82-5 |  |

**TCL PCB List (Column 2)**

|          |              |      |      |      |                |      |            |  |
|----------|--------------|------|------|------|----------------|------|------------|--|
| PCB-1016 | Not detected | ug/L | 0.06 | 8082 | 09/12/11 14:45 | JANB | 12674-11-2 |  |
| PCB-1242 | Not detected | ug/L | 0.06 | 8082 | 09/12/11 14:45 | JANB | 53469-21-9 |  |
| PCB-1221 | Not detected | ug/L | 0.06 | 8082 | 09/12/11 14:45 | JANB | 11104-28-2 |  |
| PCB-1232 | Not detected | ug/L | 0.06 | 8082 | 09/12/11 14:45 | JANB | 11141-16-5 |  |
| PCB-1248 | Not detected | ug/L | 0.06 | 8082 | 09/12/11 14:45 | JANB | 12672-29-6 |  |



# Analytical Laboratory Report

Lab Sample ID: S49982.05 (continued)

Sample Tag: Equipment blank

| Analysis                                      | Results      | Units | RL   | Method  | Run Date/Time  | Analyst | CAS #      | Flags |
|---|--------------|-------|------|---------|----------------|---------|------------|-------|
| <b>Organics - PCBs/Pesticides (continued)</b> |              |       |      |         |                |         |            |       |
| <b>TCL PCB List (Column 2) (continued)</b>    |              |       |      |         |                |         |            |       |
| PCB-1254                                      | Not detected | ug/L  | 0.06 | 8082    | 09/12/11 14:45 | JANB    | 11097-69-1 |       |
| PCB-1260                                      | Not detected | ug/L  | 0.06 | 8082    | 09/12/11 14:45 | JANB    | 11096-82-5 |       |
| <b>Organics - Semi-Volatiles</b>              |              |       |      |         |                |         |            |       |
| 3,3'-Dichlorobenzidine                        | Not detected | ug/L  | 0.05 | 8270C   | 09/15/11 14:53 | PL      | 91-94-1    |       |
| Hexachlorobenzene                             | Not detected | ug/L  | 0.05 | 8270C   | 09/15/11 14:53 | PL      | 118-74-1   |       |
| <b>TCL Semi-Volatile Organics</b>             |              |       |      |         |                |         |            |       |
| Acenaphthene                                  | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 83-32-9    |       |
| Acenaphthylene                                | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 208-96-8   |       |
| Acetophenone                                  | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 98-86-2    |       |
| Anthracene                                    | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 120-12-7   |       |
| Atrazine                                      | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 1912-24-9  |       |
| 1,1'-Biphenyl                                 | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 92-52-4    |       |
| 4-Bromophenyl phenyl ether                    | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 101-55-3   |       |
| di-n-Butyl phthalate                          | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 84-74-2    |       |
| Benzaldehyde                                  | Not detected | ug/L  | 1    | J 8270C | 09/15/11 17:37 | PL      | 100-52-7   |       |
| Benzo(a)anthracene                            | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 56-55-3    |       |
| Benzo(a)pyrene                                | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 50-32-8    |       |
| Benzo(b)fluoranthene                          | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 205-99-2   |       |
| Benzo(ghi)perylene                            | Not detected | ug/L  | 1    | J 8270C | 09/15/11 17:37 | PL      | 191-24-2   |       |
| Benzo(k)fluoranthene                          | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 207-08-9   |       |
| Butyl benzyl phthalate                        | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 85-68-7    |       |
| 2-Chloronaphthalene                           | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 91-58-7    |       |
| 2-Chlorophenol                                | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 95-57-8    |       |
| 4-Chloro-3-methylphenol                       | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 59-50-7    |       |
| 4-Chloroaniline                               | Not detected | ug/L  | 2    | 8270C   | 09/15/11 17:37 | PL      | 106-47-8   |       |
| 4-Chlorophenyl phenyl ether                   | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 7005-72-3  |       |
| Caprolactam                                   | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 105-60-2   |       |
| Carbazole                                     | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 86-74-8    |       |
| bis(2-Chloroethoxy)methane                    | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 111-91-1   |       |
| bis(2-Chloroethyl)ether                       | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 111-44-4   |       |
| bis(2-Chloroisopropyl)ether                   | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 108-60-1   |       |
| Chrysene                                      | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 218-01-9   |       |
| 2,4-Dichlorophenol                            | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 120-83-2   |       |
| 2,4-Dimethylphenol                            | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 105-67-9   |       |
| 2,4-Dinitrophenol                             | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 51-28-5    |       |
| 2,4-Dinitrotoluene                            | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 121-14-2   |       |
| 2,6-Dinitrotoluene                            | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 606-20-2   |       |
| 3,3'-Dichlorobenzidine                        | Not detected | ug/L  | 2    | 8270C   | 09/15/11 17:37 | PL      | 91-94-1    |       |
| 4,6-Dinitro-2-methylphenol                    | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 534-52-1   |       |
| Dibenzo(ah)anthracene                         | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 53-70-3    |       |
| Dibenzofuran                                  | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 132-64-9   |       |
| Diethyl phthalate                             | Not detected | ug/L  | 2    | 8270C   | 09/15/11 17:37 | PL      | 84-66-2    |       |
| Dimethyl phthalate                            | 3            | ug/L  | 2    | 8270C   | 09/15/11 17:37 | PL      | 131-11-3   |       |
| bis(2-Ethylhexyl)phthalate                    | Not detected | ug/L  | 2    | 8270C   | 09/15/11 17:37 | PL      | 117-81-7   |       |
| Fluoranthene                                  | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 206-44-0   |       |
| Fluorene                                      | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 86-73-7    |       |
| Hexachlorobenzene                             | Not detected | ug/L  | 1    | 8270C   | 09/15/11 17:37 | PL      | 118-74-1   |       |



# Analytical Laboratory Report

Lab Sample ID: S49982.05 (continued)

Sample Tag: Equipment blank

| Analysis                                      | Results      | Units | RL   | Method      | Run Date/Time  | Analyst | CAS #      | Flags |
|---|--------------|-------|------|-------------|----------------|---------|------------|-------|
| <b>Organics - Semi-Volatiles (continued)</b>  |              |       |      |             |                |         |            |       |
| <b>TCL Semi-Volatile Organics (continued)</b> |              |       |      |             |                |         |            |       |
| Hexachlorobutadiene                           | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:37 | PL      | 87-68-3    |       |
| Hexachlorocyclopentadiene                     | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:37 | PL      | 77-47-4    |       |
| Hexachloroethane                              | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:37 | PL      | 67-72-1    |       |
| Indeno(1,2,3-cd)pyrene                        | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:37 | PL      | 193-39-5   |       |
| Isophorone                                    | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:37 | PL      | 78-59-1    |       |
| 2-Methylnaphthalene                           | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:37 | PL      | 91-57-6    |       |
| 2-Methylphenol                                | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:37 | PL      | 95-48-7    |       |
| 3-, 4-Methylphenol                            | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:37 | PL      | 3/4-Cresol |       |
| 2-Nitroaniline                                | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:37 | PL      | 88-74-4    |       |
| 2-Nitrophenol                                 | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:37 | PL      | 88-75-5    |       |
| 3-Nitroaniline                                | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:37 | PL      | 99-09-2    |       |
| 4-Nitroaniline                                | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:37 | PL      | 100-01-6   |       |
| 4-Nitrophenol                                 | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:37 | PL      | 100-02-7   |       |
| N-Nitrosodi-n-propylamine                     | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:37 | PL      | 621-64-7   |       |
| N-Nitrosodiphenylamine                        | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:37 | PL      | 86-30-6    |       |
| Naphthalene                                   | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:37 | PL      | 91-20-3    |       |
| Nitrobenzene                                  | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:37 | PL      | 98-95-3    |       |
| di-n-Octyl phthalate                          | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:37 | PL      | 117-84-0   |       |
| Pentachlorophenol                             | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:37 | PL      | 87-86-5    |       |
| Phenanthrene                                  | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:37 | PL      | 85-01-8    |       |
| Phenol  | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:37 | PL      | 108-95-2   |       |
| Pyrene  | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:37 | PL      | 129-00-0   |       |
| 2,4,5-Trichlorophenol                         | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:37 | PL      | 95-95-4    |       |
| 2,4,6-Trichlorophenol                         | Not detected | ug/L  | 1    | 8270C       | 09/15/11 17:37 | PL      | 88-06-2    |       |
| <b>Organics - Volatiles</b>                   |              |       |      |             |                |         |            |       |
| 1,2-Dibromo-3-chloropropane                   | Not detected | ug/L  | 0.05 | 8260B - SIM | 09/19/11 16:19 | WAT     | 96-12-8    |       |
| 1,2-Dibromoethane                             | Not detected | ug/L  | 0.02 | 8260B - SIM | 09/19/11 16:19 | WAT     | 106-93-4   |       |
| 1,4-Dioxane                                   | Not detected | ug/L  | 5    | 8260B - SIM | 09/19/11 16:19 | WAT     | 123-91-1   |       |
| <b>TCL Volatile Organics 8260</b>             |              |       |      |             |                |         |            |       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane         | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:34 | WAT     | 76-13-1    |       |
| Acetone                                       | Not detected | ug/L  | 10   | 8260B       | 09/19/11 18:34 | WAT     | 67-64-1    |       |
| Carbon disulfide                              | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:34 | WAT     | 75-15-0    |       |
| Methyl Acetate                                | Not detected | ug/L  | 10   | 8260B       | 09/19/11 18:34 | WAT     | 79-20-9    |       |
| tert-Methyl butyl ether (MTBE)                | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:34 | WAT     | 1634-04-4  |       |
| 2-Butanone (MEK)                              | Not detected | ug/L  | 10   | 8260B       | 09/19/11 18:34 | WAT     | 78-93-3    |       |
| Dichlorodifluoromethane                       | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:34 | WAT     | 75-71-8    |       |
| Chloromethane                                 | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:34 | WAT     | 74-87-3    |       |
| Vinyl chloride                                | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:34 | WAT     | 75-01-4    |       |
| Bromomethane                                  | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:34 | WAT     | 74-83-9    |       |
| Chloroethane                                  | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:34 | WAT     | 75-00-3    |       |
| Trichlorofluoromethane                        | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:34 | WAT     | 75-69-4    |       |
| 1,1-Dichloroethene                            | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:34 | WAT     | 75-35-4    |       |
| Methylene chloride                            | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:34 | WAT     | 75-09-2    |       |
| trans-1,2-Dichloroethene                      | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:34 | WAT     | 156-60-5   |       |
| 1,1-Dichloroethane                            | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:34 | WAT     | 75-34-3    |       |
| cis-1,2-Dichloroethene                        | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:34 | WAT     | 156-59-2   |       |
| Chloroform                                    | Not detected | ug/L  | 1    | 8260B       | 09/19/11 18:34 | WAT     | 67-66-3    |       |



# Analytical Laboratory Report

Lab Sample ID: S49982.05 (continued)

Sample Tag: Equipment blank

| Analysis                                      | Results      | Units | RL | Method | Run Date/Time  | Analyst | CAS #      | Flags |
|---|--------------|-------|----|--------|----------------|---------|------------|-------|
| <b>Organics - Volatiles (continued)</b>       |              |       |    |        |                |         |            |       |
| <b>TCL Volatile Organics 8260 (continued)</b> |              |       |    |        |                |         |            |       |
| 1,1,1-Trichloroethane                         | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 71-55-6    |       |
| Cyclohexane                                   | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 110-82-7   |       |
| 4-Methyl-2-pentanone (MIBK)                   | Not detected | ug/L  | 10 | 8260B  | 09/19/11 18:34 | WAT     | 108-10-1   |       |
| 2-Hexanone                                    | Not detected | ug/L  | 10 | 8260B  | 09/19/11 18:34 | WAT     | 591-78-6   |       |
| Carbon tetrachloride                          | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 56-23-5    |       |
| Benzene                                       | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 71-43-2    |       |
| 1,2-Dichloroethane                            | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 107-06-2   |       |
| Trichloroethene                               | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 79-01-6    |       |
| 1,2-Dichloropropane                           | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 78-87-5    |       |
| Bromodichloromethane                          | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 75-27-4    |       |
| Methyl cyclohexane                            | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 108-87-2   |       |
| cis-1,3-Dichloropropene                       | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 10061-01-5 |       |
| Toluene                                       | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 108-88-3   |       |
| trans-1,3-Dichloropropene                     | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 10061-02-6 |       |
| 1,1,2-Trichloroethane                         | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 79-00-5    |       |
| Tetrachloroethene                             | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 127-18-4   |       |
| Dibromochloromethane                          | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 124-48-1   |       |
| 1,2-Dibromoethane                             | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 106-93-4   |       |
| Chlorobenzene                                 | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 108-90-7   |       |
| 1,1,2,2-Tetrachloroethane                     | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 79-34-5    |       |
| Ethylbenzene                                  | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 100-41-4   |       |
| p,m-Xylene                                    | Not detected | ug/L  | 2  | 8260B  | 09/19/11 18:34 | WAT     |            |       |
| o-Xylene                                      | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 95-47-6    |       |
| Styrene                                       | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 100-42-5   |       |
| Isopropylbenzene                              | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 98-82-8    |       |
| Bromoform                                     | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 75-25-2    |       |
| 1,3-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 541-73-1   |       |
| 1,4-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 106-46-7   |       |
| 1,2-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 95-50-1    |       |
| 1,2-Dibromo-3-chloropropane                   | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 96-12-8    |       |
| 1,2,4-Trichlorobenzene                        | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:34 | WAT     | 120-82-1   |       |



# Analytical Laboratory Report

Lab Sample ID: S49982.06  
Sample Tag: Trip Blank  
Collected Date/Time: 09/08/2011 13:10  
Matrix: Wastewater  
COC Reference: 16136

## Sample Containers

| # | Type       | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---|------------|-----------------|---------------|-------------------|---------------|
| 1 | 40ml Glass | HCL             | Yes           | 4.7               | IR            |

| Analysis                    | Results      | Units | RL   | Method      | Run Date/Time  | Analyst | CAS #    | Flags |
|-----------------------------|--------------|-------|------|-------------|----------------|---------|----------|-------|
| <b>Organics - Volatiles</b> |              |       |      |             |                |         |          |       |
| 1,2-Dibromo-3-chloropropane | Not detected | ug/L  | 0.05 | 8260B - SIM | 09/19/11 16:37 | WAT     | 96-12-8  |       |
| 1,2-Dibromoethane           | Not detected | ug/L  | 0.02 | 8260B - SIM | 09/19/11 16:37 | WAT     | 106-93-4 |       |
| 1,4-Dioxane                 | Not detected | ug/L  | 5    | 8260B - SIM | 09/19/11 16:37 | WAT     | 123-91-1 |       |

## TCL Volatile Organics 8260

|                                       |              |      |    |       |                |     |            |  |
|---------------------------------------|--------------|------|----|-------|----------------|-----|------------|--|
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 76-13-1    |  |
| Acetone                               | Not detected | ug/L | 10 | 8260B | 09/19/11 18:52 | WAT | 67-64-1    |  |
| Carbon disulfide                      | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 75-15-0    |  |
| Methyl Acetate                        | Not detected | ug/L | 10 | 8260B | 09/19/11 18:52 | WAT | 79-20-9    |  |
| tert-Methyl butyl ether (MTBE)        | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 1634-04-4  |  |
| 2-Butanone (MEK)                      | Not detected | ug/L | 10 | 8260B | 09/19/11 18:52 | WAT | 78-93-3    |  |
| Dichlorodifluoromethane               | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 75-71-8    |  |
| Chloromethane                         | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 74-87-3    |  |
| Vinyl chloride                        | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 75-01-4    |  |
| Bromomethane                          | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 74-83-9    |  |
| Chloroethane                          | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 75-00-3    |  |
| Trichlorofluoromethane                | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 75-69-4    |  |
| 1,1-Dichloroethene                    | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 75-35-4    |  |
| Methylene chloride                    | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 75-09-2    |  |
| trans-1,2-Dichloroethene              | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 156-60-5   |  |
| 1,1-Dichloroethane                    | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 75-34-3    |  |
| cis-1,2-Dichloroethene                | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 156-59-2   |  |
| Chloroform                            | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 67-66-3    |  |
| 1,1,1-Trichloroethane                 | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 71-55-6    |  |
| Cyclohexane                           | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 110-82-7   |  |
| 4-Methyl-2-pentanone (MIBK)           | Not detected | ug/L | 10 | 8260B | 09/19/11 18:52 | WAT | 108-10-1   |  |
| 2-Hexanone                            | Not detected | ug/L | 10 | 8260B | 09/19/11 18:52 | WAT | 591-78-6   |  |
| Carbon tetrachloride                  | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 56-23-5    |  |
| Benzene                               | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 71-43-2    |  |
| 1,2-Dichloroethane                    | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 107-06-2   |  |
| Trichloroethene                       | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 79-01-6    |  |
| 1,2-Dichloropropane                   | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 78-87-5    |  |
| Bromodichloromethane                  | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 75-27-4    |  |
| Methyl cyclohexane                    | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 108-87-2   |  |
| cis-1,3-Dichloropropene               | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 10061-01-5 |  |
| Toluene                               | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 108-88-3   |  |
| trans-1,3-Dichloropropene             | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 10061-02-6 |  |
| 1,1,2-Trichloroethane                 | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 79-00-5    |  |
| Tetrachloroethene                     | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 127-18-4   |  |
| Dibromochloromethane                  | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 124-48-1   |  |
| 1,2-Dibromoethane                     | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 106-93-4   |  |
| Chlorobenzene                         | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 108-90-7   |  |
| 1,1,2,2-Tetrachloroethane             | Not detected | ug/L | 1  | 8260B | 09/19/11 18:52 | WAT | 79-34-5    |  |



# Analytical Laboratory Report

Lab Sample ID: S49982.06 (continued)

Sample Tag: Trip Blank

| Analysis                                      | Results      | Units | RL | Method | Run Date/Time  | Analyst | CAS #    | Flags |
|---|--------------|-------|----|--------|----------------|---------|----------|-------|
| <b>Organics - Volatiles (continued)</b>       |              |       |    |        |                |         |          |       |
| <b>TCL Volatile Organics 8260 (continued)</b> |              |       |    |        |                |         |          |       |
| Ethylbenzene                                  | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:52 | WAT     | 100-41-4 |       |
| p,m-Xylene                                    | Not detected | ug/L  | 2  | 8260B  | 09/19/11 18:52 | WAT     |          |       |
| o-Xylene                                      | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:52 | WAT     | 95-47-6  |       |
| Styrene                                       | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:52 | WAT     | 100-42-5 |       |
| Isopropylbenzene                              | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:52 | WAT     | 98-82-8  |       |
| Bromoform                                     | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:52 | WAT     | 75-25-2  |       |
| 1,3-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:52 | WAT     | 541-73-1 |       |
| 1,4-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:52 | WAT     | 106-46-7 |       |
| 1,2-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:52 | WAT     | 95-50-1  |       |
| 1,2-Dibromo-3-chloropropane                   | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:52 | WAT     | 96-12-8  |       |
| 1,2,4-Trichlorobenzene                        | Not detected | ug/L  | 1  | 8260B  | 09/19/11 18:52 | WAT     | 120-82-1 |       |

| <b>Contact &amp; Company Name:</b><br>Randy Christensen/Arca<br>Address: 10551 Catherine Dr, Suite 105<br>City: Brighton MI 48116<br>Project Name/Location (City, State): Race Point Plant 2 (Livonia, MI)<br>Sampler's Printed Name: Kenneth Windward<br>Signature: Kenneth Windward |                 | <b>Telephone:</b> 810-225-1940<br><b>Fax:</b><br><b>E-mail Address:</b> Randy.Christensen@Arcadis-us.com<br><b>Project #:</b> B0064479.2011<br><b>Sampler's Signature:</b> Kenneth Windward |        |  |           |
|---|-----------------|---|--------|--|-----------|
| Sample ID   | Collection Date | Types (M)<br>Comp   | Matrix | ANALYSIS & METHOD  | REMARKS   |
| 01 P2-SB-37   | 07/10/2011      |   | W      | TAL Metals   |           |
| 02 P2-SB-6  | 2030 07/10/2011 |   | W      | PCBs   |           |
| 03 P2-MW-2  | 1655 07/10/2011 |   | W      | Baron  |           |
| 04 Duplicate  | 1700 07/10/2011 |   | W      | Cyanide  | Duplicate |
| 05 Equipment Blank  | 1100 7/11/11    |   | W      | TAL Metals   |           |
| 06 Trip Blank   | 1300 7/11/11    |   | W      | TAL Metals   |           |
| <b>Special Instructions/Comments:</b><br>Deliverables Required: EDD<br>QC Level II<br>PL# MLT-1300-1  |                 |   |        |  |           |
| <b>Lab Name:</b> Merit<br><input checked="" type="checkbox"/> Cooler packed with ice (✓)<br>Specify Turnaround Requirements: Standard   |                 | <input type="checkbox"/> Intact<br><input type="checkbox"/> Not Intact<br>Sample Receipt: 4.7<br>Condition/Cooler Temp:   |        | <b>Received By:</b> Kenneth Windward<br>Printed Name: Kenneth Windward<br>Signature: Kenneth Windward<br>Firm: Arcadis<br>Date/Time: 07/08/2011 1530 |           |
| <b>Relinquished By:</b> Andrew Bacs<br>Printed Name: Andrew Bacs<br>Signature: Andrew Bacs<br>Firm: Merit<br>Date/Time: 08SEP11 1550  |                 | <b>Relinquished By:</b> Andrew Bacs<br>Printed Name: Andrew Bacs<br>Signature: Andrew Bacs<br>Firm: Merit<br>Date/Time: 08SEP11 1550  |        |  |           |

PINK - Retained by ARCADIS

YELLOW - Lab copy

WHITE - Laboratory returns with results

Distribution:



# Analytical Laboratory Report

Lab Sample ID: S50078.01  
Sample Tag: P2-SB-3  
Collected Date/Time: 09/16/2011 09:00  
Matrix: Water  
COC Reference: 16049

## Sample Containers

| # | Type       | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---|------------|-----------------|---------------|-------------------|---------------|
| 2 | 1L Amber   | None            | Yes           | 4.9               | IR            |
| 2 | 40ml Glass | HCL             | Yes           | 4.9               | IR            |

| Analysis | Results | Units | RL | Method | Run Date/Time | Analyst | CAS # | Flags |
|----------|---------|-------|----|--------|---------------|---------|-------|-------|
|----------|---------|-------|----|--------|---------------|---------|-------|-------|

### Extraction / Prep.

|                |           |  |  |       |                |     |  |  |
|----------------|-----------|--|--|-------|----------------|-----|--|--|
| BNA Extraction | Completed |  |  | 3510C | 09/21/11 19:05 | EMR |  |  |
|----------------|-----------|--|--|-------|----------------|-----|--|--|

### Organics - Semi-Volatiles

|                        |              |      |      |       |                |    |          |  |
|------------------------|--------------|------|------|-------|----------------|----|----------|--|
| 3,3'-Dichlorobenzidine | Not detected | ug/L | 0.05 | 8270C | 09/22/11 12:56 | PL | 91-94-1  |  |
| Hexachlorobenzene      | Not detected | ug/L | 0.05 | 8270C | 09/22/11 12:56 | PL | 118-74-1 |  |

### TCL Semi-Volatile Organics

|                             |              |      |   |       |                |    |           |  |
|-----------------------------|--------------|------|---|-------|----------------|----|-----------|--|
| Acenaphthene                | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 83-32-9   |  |
| Acenaphthylene              | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 208-96-8  |  |
| Acetophenone                | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 98-86-2   |  |
| Anthracene                  | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 120-12-7  |  |
| Atrazine                    | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 1912-24-9 |  |
| 1,1'-Biphenyl               | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 92-52-4   |  |
| 4-Bromophenyl phenyl ether  | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 101-55-3  |  |
| di-n-Butyl phthalate        | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 84-74-2   |  |
| Benzaldehyde                | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 100-52-7  |  |
| Benzo(a)anthracene          | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 56-55-3   |  |
| Benzo(a)pyrene              | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 50-32-8   |  |
| Benzo(b)fluoranthene        | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 205-99-2  |  |
| Benzo(ghi)perylene          | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 191-24-2  |  |
| Benzo(k)fluoranthene        | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 207-08-9  |  |
| Butyl benzyl phthalate      | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 85-68-7   |  |
| 2-Chloronaphthalene         | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 91-58-7   |  |
| 2-Chlorophenol              | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 95-57-8   |  |
| 4-Chloro-3-methylphenol     | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 59-50-7   |  |
| 4-Chloroaniline             | Not detected | ug/L | 2 | 8270C | 09/22/11 18:30 | PL | 106-47-8  |  |
| 4-Chlorophenyl phenyl ether | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 7005-72-3 |  |
| Caprolactam                 | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 105-60-2  |  |
| Carbazole                   | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 86-74-8   |  |
| bis(2-Chloroethoxy)methane  | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 111-91-1  |  |
| bis(2-Chloroethyl)ether     | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 111-44-4  |  |
| bis(2-Chloroisopropyl)ether | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 108-60-1  |  |
| Chrysene                    | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 218-01-9  |  |
| 2,4-Dichlorophenol          | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 120-83-2  |  |
| 2,4-Dimethylphenol          | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 105-67-9  |  |
| 2,4-Dinitrophenol           | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 51-28-5   |  |
| 2,4-Dinitrotoluene          | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 121-14-2  |  |
| 2,6-Dinitrotoluene          | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 606-20-2  |  |
| 3,3'-Dichlorobenzidine      | Not detected | ug/L | 2 | 8270C | 09/22/11 18:30 | PL | 91-94-1   |  |
| 4,6-Dinitro-2-methylphenol  | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 534-52-1  |  |
| Dibenzo(ah)anthracene       | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 53-70-3   |  |
| Dibenzofuran                | Not detected | ug/L | 1 | 8270C | 09/22/11 18:30 | PL | 132-64-9  |  |



# Analytical Laboratory Report

Lab Sample ID: S50078.01 (continued)

Sample Tag: P2-SB-3

| Analysis                                      | Results      | Units | RL   | Method      | Run Date/Time  | Analyst | CAS #      | Flags |
|---|--------------|-------|------|-------------|----------------|---------|------------|-------|
| <b>Organics - Semi-Volatiles (continued)</b>  |              |       |      |             |                |         |            |       |
| <b>TCL Semi-Volatile Organics (continued)</b> |              |       |      |             |                |         |            |       |
| Diethyl phthalate                             | Not detected | ug/L  | 2    | 8270C       | 09/22/11 18:30 | PL      | 84-66-2    |       |
| Dimethyl phthalate                            | Not detected | ug/L  | 2    | 8270C       | 09/22/11 18:30 | PL      | 131-11-3   |       |
| bis(2-Ethylhexyl)phthalate                    | Not detected | ug/L  | 2    | 8270C       | 09/22/11 18:30 | PL      | 117-81-7   |       |
| Fluoranthene                                  | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 206-44-0   |       |
| Fluorene                                      | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 86-73-7    |       |
| Hexachlorobenzene                             | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 118-74-1   |       |
| Hexachlorobutadiene                           | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 87-68-3    |       |
| Hexachlorocyclopentadiene                     | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 77-47-4    |       |
| Hexachloroethane                              | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 67-72-1    |       |
| Indeno(1,2,3-cd)pyrene                        | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 193-39-5   |       |
| Isophorone                                    | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 78-59-1    |       |
| 2-Methylnaphthalene                           | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 91-57-6    |       |
| 2-Methylphenol                                | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 95-48-7    |       |
| 3-, 4-Methylphenol                            | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 3/4-Cresol |       |
| 2-Nitroaniline                                | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 88-74-4    |       |
| 2-Nitrophenol                                 | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 88-75-5    |       |
| 3-Nitroaniline                                | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 99-09-2    |       |
| 4-Nitroaniline                                | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 100-01-6   |       |
| 4-Nitrophenol                                 | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 100-02-7   |       |
| N-Nitrosodi-n-propylamine                     | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 621-64-7   |       |
| N-Nitrosodiphenylamine                        | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 86-30-6    |       |
| Naphthalene                                   | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 91-20-3    |       |
| Nitrobenzene                                  | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 98-95-3    |       |
| di-n-Octyl phthalate                          | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 117-84-0   |       |
| Pentachlorophenol                             | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 87-86-5    |       |
| Phenanthrene                                  | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 85-01-8    |       |
| Phenol  | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 108-95-2   |       |
| Pyrene  | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 129-00-0   |       |
| 2,4,5-Trichlorophenol                         | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 95-95-4    |       |
| 2,4,6-Trichlorophenol                         | Not detected | ug/L  | 1    | 8270C       | 09/22/11 18:30 | PL      | 88-06-2    |       |
| <b>Organics - Volatiles</b>                   |              |       |      |             |                |         |            |       |
| 1,2-Dibromo-3-chloropropane                   | Not detected | ug/L  | 0.05 | 8260B - SIM | 09/19/11 17:14 | WAT     | 96-12-8    |       |
| 1,2-Dibromoethane                             | Not detected | ug/L  | 0.02 | 8260B - SIM | 09/19/11 17:14 | WAT     | 106-93-4   |       |
| 1,4-Dioxane                                   | Not detected | ug/L  | 5    | 8260B - SIM | 09/19/11 17:14 | WAT     | 123-91-1   |       |
| <b>TCL Volatile Organics 8260</b>             |              |       |      |             |                |         |            |       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane         | Not detected | ug/L  | 1    | 8260B       | 09/21/11 17:42 | WAT     | 76-13-1    |       |
| Acetone                                       | Not detected | ug/L  | 10   | 8260B       | 09/21/11 17:42 | WAT     | 67-64-1    |       |
| Carbon disulfide                              | Not detected | ug/L  | 1    | 8260B       | 09/21/11 17:42 | WAT     | 75-15-0    |       |
| Methyl Acetate                                | Not detected | ug/L  | 10   | 8260B       | 09/21/11 17:42 | WAT     | 79-20-9    |       |
| tert-Methyl butyl ether (MTBE)                | Not detected | ug/L  | 1    | 8260B       | 09/21/11 17:42 | WAT     | 1634-04-4  |       |
| 2-Butanone (MEK)                              | Not detected | ug/L  | 10   | 8260B       | 09/21/11 17:42 | WAT     | 78-93-3    |       |
| Dichlorodifluoromethane                       | Not detected | ug/L  | 1    | 8260B       | 09/21/11 17:42 | WAT     | 75-71-8    |       |
| Chloromethane                                 | Not detected | ug/L  | 1    | 8260B       | 09/21/11 17:42 | WAT     | 74-87-3    |       |
| Vinyl chloride                                | Not detected | ug/L  | 1    | 8260B       | 09/21/11 17:42 | WAT     | 75-01-4    |       |
| Bromomethane                                  | Not detected | ug/L  | 1    | 8260B       | 09/21/11 17:42 | WAT     | 74-83-9    |       |
| Chloroethane                                  | Not detected | ug/L  | 1    | 8260B       | 09/21/11 17:42 | WAT     | 75-00-3    |       |
| Trichlorofluoromethane                        | Not detected | ug/L  | 1    | 8260B       | 09/21/11 17:42 | WAT     | 75-69-4    |       |



# Analytical Laboratory Report

Lab Sample ID: S50078.01 (continued)

Sample Tag: P2-SB-3

| Analysis                                      | Results      | Units | RL | Method | Run Date/Time  | Analyst | CAS #      | Flags |
|---|--------------|-------|----|--------|----------------|---------|------------|-------|
| <b>Organics - Volatiles (continued)</b>       |              |       |    |        |                |         |            |       |
| <b>TCL Volatile Organics 8260 (continued)</b> |              |       |    |        |                |         |            |       |
| 1,1-Dichloroethene                            | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 75-35-4    |       |
| Methylene chloride                            | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 75-09-2    |       |
| trans-1,2-Dichloroethene                      | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 156-60-5   |       |
| 1,1-Dichloroethane                            | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 75-34-3    |       |
| cis-1,2-Dichloroethene                        | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 156-59-2   |       |
| Chloroform                                    | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 67-66-3    |       |
| 1,1,1-Trichloroethane                         | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 71-55-6    |       |
| Cyclohexane                                   | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 110-82-7   |       |
| 4-Methyl-2-pentanone (MIBK)                   | Not detected | ug/L  | 10 | 8260B  | 09/21/11 17:42 | WAT     | 108-10-1   |       |
| 2-Hexanone                                    | Not detected | ug/L  | 10 | 8260B  | 09/21/11 17:42 | WAT     | 591-78-6   |       |
| Carbon tetrachloride                          | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 56-23-5    |       |
| Benzene                                       | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 71-43-2    |       |
| 1,2-Dichloroethane                            | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 107-06-2   |       |
| Trichloroethene                               | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 79-01-6    |       |
| 1,2-Dichloropropane                           | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 78-87-5    |       |
| Bromodichloromethane                          | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 75-27-4    |       |
| Methyl cyclohexane                            | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 108-87-2   |       |
| cis-1,3-Dichloropropene                       | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 10061-01-5 |       |
| Toluene                                       | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 108-88-3   |       |
| trans-1,3-Dichloropropene                     | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 10061-02-6 |       |
| 1,1,2-Trichloroethane                         | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 79-00-5    |       |
| Tetrachloroethene                             | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 127-18-4   |       |
| Dibromochloromethane                          | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 124-48-1   |       |
| 1,2-Dibromoethane                             | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 106-93-4   |       |
| Chlorobenzene                                 | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 108-90-7   |       |
| 1,1,2,2-Tetrachloroethane                     | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 79-34-5    |       |
| Ethylbenzene                                  | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 100-41-4   |       |
| p,m-Xylene                                    | Not detected | ug/L  | 2  | 8260B  | 09/21/11 17:42 | WAT     |            |       |
| o-Xylene                                      | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 95-47-6    |       |
| Styrene                                       | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 100-42-5   |       |
| Isopropylbenzene                              | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 98-82-8    |       |
| Bromoform                                     | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 75-25-2    |       |
| 1,3-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 541-73-1   |       |
| 1,4-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 106-46-7   |       |
| 1,2-Dichlorobenzene                           | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 95-50-1    |       |
| 1,2-Dibromo-3-chloropropane                   | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 96-12-8    |       |
| 1,2,4-Trichlorobenzene                        | Not detected | ug/L  | 1  | 8260B  | 09/21/11 17:42 | WAT     | 120-82-1   |       |

|   |  |   |  |  |  |
|---|--|---|--|--|--|
| <b>Container &amp; Company Name:</b><br>Arcadis<br>10559 Citation Dr, 100<br>Suite<br>Brighton MI 48116<br>Project Name/Location (City, State):<br>Plant 2/ Lansing MI<br>Sampler's Printed Name:<br>Kenneth Windsand |  | <b>Telephone:</b><br>810 - 225 - 1940<br><b>Fax:</b><br>[Blank]<br><b>E-mail Address:</b><br>Randy.Christense@arcadis-us.com<br>Project #:<br>B0064499.2011<br>Sampler's Signature:<br>Kenneth Windsand |  | <b>City:</b><br>Lansing<br><b>State:</b><br>MI<br><b>Zip:</b><br>48116 |  |
| <b>Preservative Filtered (✓)</b><br>[Blank]   |  | <b>Container Information</b><br>[Blank]   |  | <b>Matrix</b><br>W   |  |
| <b>Sample ID</b><br>PZ-SB-3   |  | <b>Type (✓)</b><br>Comp   |  | <b>Grab</b><br>[Blank]   |  |
| Date: 09/14/11 9:00   |  | [Blank]   |  | [Blank]  |  |
| <b>PARAMETER ANALYSIS</b><br>TL SUCCS<br>TL MEALS<br>TL BOWL<br>PCBs  |  |   |  |  |  |
| <b>REMARKS</b><br>[Blank]   |  |   |  |  |  |

**Keys**

**Container Information Key:**

- 40 ml Vial
- 1 L Amber
- 250 ml Plastic
- 500 ml Plastic
- Encore
- 2 oz. Glass
- 4 oz. Glass
- 8 oz. Glass
- Other:

**Preservation:**

- H<sub>2</sub>SO<sub>4</sub>
- HCl
- HNO<sub>3</sub>
- NaOH
- None
- Other:
- Other:
- Other:

**Matrix Key:**

- SO - Soil
- W - Water
- T - Tissue
- Wipe

**Special Instructions/Comments:**  
 Deliverables Required: EDD  
 Q Level II P.O.# MLT 13001

Special QA/QC Instructions(✓):

|  |   |                                     |  |
|--|---|-------------------------------------|--|
| <b>Lab Name:</b><br>Ment<br>Cooler packed with ice (✓) | <b>Requisitioned By:</b><br>Kenneth Windsand<br>Signature: Kenneth Windsand<br>Firm: Arcadis<br>Date/Time: 09/16/2011 11:15 | <b>Requisitioned By:</b><br>[Blank] | <b>Requisitioned By:</b><br>Paul Shaw<br>Signature: Paul Shaw<br>Firm: Arcadis<br>Date/Time: 9-16-11 11:15 |
|--|---|-------------------------------------|--|

**Shipping Tracking #:**  
 Standard

**Sample Receipt:**  
 Intact  Not Intact   
 Cooler Custody Seal (✓)  
 Confirmed Cooler Temp: 49

**Lab Name:** Ment

**Requisitioned By:** Kenneth Windsand

**Requisitioned By:** Paul Shaw

**Requisitioned By:** [Blank]

**Requisitioned By:** Paul Shaw

**Lab Name:** Ment

**Requisitioned By:** Kenneth Windsand

**Requisitioned By:** Paul Shaw

**Requisitioned By:** [Blank]

**Requisitioned By:** Paul Shaw

**Lab Name:** Ment

**Requisitioned By:** Kenneth Windsand

**Requisitioned By:** Paul Shaw

**Requisitioned By:** [Blank]

**Requisitioned By:** Paul Shaw