

Racer Trust Lansing- Plant 2

Data Review

LANSING, MICHIGAN

Volatiles, Semivolatiles, PCBs, and Metals
Analyses

SDG# S49858

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

Report: #14818R
Review Level: Tier I
Project: B0064479.2011.21INV

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Groups (SDGs) # S49858 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:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
P2-SB-23(3-4')082911	S49858.01	Soil	08/29/2011		X	X	X	X	
P2-SB-23(19-20')082911	S49858.02	Soil	08/29/2011		X	X	X	X	
P2-SB-26(5-6')082911	S49858.03	Soil	08/29/2011		X	X	X	X	
Duplicate 1-P2	S49858.04	Soil	08/29/2011	P2-SB-26(5-6')082911	X	X	X	X	
P2-SB-26(19-20')082911	S49858.05	Soil	08/29/2011		X	X	X	X	
P2-SB-18(4-5')082911	S49858.08	Soil	08/29/2011		X	X	X	X	
P2-SB-18(19-20')082911	S49858.09	Soil	08/29/2011		X	X	X	X	
P2-SB-21(4-5')082911	S49858.10	Soil	08/29/2011		X	X	X	X	
P2-SB-21(9-10')082911	S49858.11	Soil	08/30/2011		X	X	X	X	
P2-SB-21(19-20')082911	S49858.12	Soil	08/30/2011		X	X	X	X	
P2-SB-22(4-5')083011	S49858.13	Soil	08/30/2011		X				
P2-SB-22(9-10')083011	S49858.14	Soil	08/30/2011		X				
P2-SB-34(3-4')083011	S49858.15	Soil	08/30/2011			X	X	X	
P2-SB-34(9-10')083011	S49858.16	Soil	08/30/2011			X	X	X	
P2-SB-35(2-3')083011	S49858.17	Soil	08/30/2011			X	X	X	
P2-SB-35(9-10')083011	S49858.18	Soil	08/30/2011			X	X	X	
P2-SB-33(5-6')083011	S49858.19	Soil	08/30/2011		X	X	X	X	
P2-SB-33(9-10')083011	S49858.20	Soil	08/30/2011		X	X	X	X	
Duplicate 2-P2	S49858.21	Soil	08/30/2011	P2-SB-33(5-6')083011	X	X	X	X	
P2-SB-32(2-3')083011	S49858.22	Soil	08/30/2011			X	X		
P2-SB-32(9-10')083011	S49858.23	Soil	08/30/2011			X	X		
P2-SB-31(1-2')083011	S49858.24	Soil	08/30/2011		X	X	X	X	
P2-SB-31(9-10')083011	S49858.25	Soil	08/30/2011		X	X	X	X	
P2-SB-36(5-6')083011	S49858.26	Soil	08/30/2011		X	X		X	
P2-SB-36(19-20')083011	S49858.27	Soil	08/30/2011		X	X		X	

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
Trip Blank - Merit	S49858.28	Water	08/29/2011		X	X	X	X	
Trip Blank - Arcadis	S49858.29	Water	08/29/2011		X	X	X	X	

Note:

1. Matrix spike/matrix spike duplicate was performed on sample location P2-SB-26(19-20')082911.

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 and 8260B-SIM	Water	14 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of 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.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	MS Recovery	MSD Recovery
P2-SB-26(19-20')082911	1,2-Dibromoethane	<LL but >10%	AC
	1,2-Dibromo-3-chloropropane	>UL	>UL

AC Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD 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
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

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

Sample Locations	Compound
P2-SB-26(19-20')082911	1,2-Dibromoethane
	1,2-Dibromo-3-chloropropane

The criteria used to evaluate the RPD between the MS/MSD 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

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.

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

Sample Locations	Compound
All samples analyzed by 8260B SIM	1,2-Dibromo-3-chloropropane

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.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
P2-SB-26(5-6')082911/ Duplicate 1-P2	All compounds	U	U	AC
P2-SB-33(5-6')083011 Duplicate 2-P2	All compounds	U	U	AC

AC Acceptable
U Not detected

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

7. System Performance and Overall Assessment

The compound 1,2-Dibromoethane associated with sample locations P2-SB-23(19-20')082911, P2-SB-26(19-20')082911, P2-SB-18(19-20')082911 and P2-SB-21(19-20')082911 was qualified with an "X" which indicates an elevated reporting limit due to matrix interference. The mass spectra were reviewed for these samples. Although the secondary ion ratios are outside of the control limits, review of the ion spectra is not enough evidence to reverse the result reported by the laboratory. The compound 1,2-Dibromoethane is reported as non-detect at the elevated reporting limit and qualified as estimated (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)					
Tier I Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					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	X		
Matrix Spike Duplicate(MSD)		X	X		
MS/MSD Precision (RPD)		X	X		
Field/Lab Duplicate (RPD)		X		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.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds 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 (B) 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-SB-34(9-10')083011 P2-SB-35(2-3')083011 P2-SB-35(9-10')083011 P2-SB-33(5-6')083011 P2-SB-33(9-10')083011 Duplicate 2-P2 P2-SB-32(2-3')083011 P2-SB-32(9-10')083011 P2-SB-31(1-2')083011 P2-SB-31(9-10')083011 P2-SB-36(5-6')083011 P2-SB-36(19-20')083011	Dimethyl phthalate	Detected sample results >RL and <BAL	"UB" at detected sample concentration
P2-SB-21(4-5')082911 P2-SB-21(9-10')082911 P2-SB-34(9-10')083011	Bis(2-ethylhexyl)phthalate		

Sample Locations	Analytes	Sample Result	Qualification
Duplicate 2-P2 P2-SB-32(2-3')083011 P2-SB-32(9-10')083011 P2-SB-31(9-10')083011 P2-SB-36(5-6)083011			

RL Reporting limit

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.

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.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
P2-SB-26(5-6')082911/ Duplicate 1-P2	Bis (2-ethylhexyl) phthalate	60	70	AC
P2-SB-33(5-6')083011 Duplicate 2-P2	Benzo(a)anthracene	130	50	AC
	Benzo(a)pyrene	100	60	AC
	Benzo(b)fluoranthene	110	60	AC
	Benzo(g,h,i)perylene	50	40 U	AC
	Benzo(b)fluoranthene	120	60	AC
	Chrysene	190	80 U	AC
	Fluoranthene	250	60	NC
	Indeno(1,2,3-cd)pyrene	50	40 U	AC
	Pyrene	210	60	NC

AC Acceptable
U Not detected

The compounds Fluoranthene and Pyrene associated with sample locations P2-SB-33(5-6')083011 and Duplicate 1-P2 exhibited a field duplicate RPD greater than the control limit. The associated sample results from sample locations for the listed analyte were qualified as estimated.

7. System Performance and Overall Assessment

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
P2-SB-23(3-4')082911	2,4-Dimethylphenol	10610 E	8400 D	8400 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

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)					
Tier I Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X	X		
B. Equipment blanks					X
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate(MSD)		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X	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-23(3-4')082911	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 ¹
	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.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
P2-SB-26(5-6')082911/ Duplicate 1-P2	All compounds	U	U	AC
P2-SB-33(5-6')083011 Duplicate 2-P2	All compounds	U	U	AC

AC Acceptable
U Not detected

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

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)					
Tier I Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					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		X	
Matrix Spike Duplicate(MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		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.

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

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.

The MS/MSD analysis exhibited recoveries within the 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-SB-26(5-6')082911/ Duplicate 1-P2	Arsenic	1.57	1.84	15.8%
	Barium	29.6	30.0	1.3%
	Beryllium	0.20	0.19	AC
	Chromium	4.77	4.72	1.1%
	Cobalt	3.53	3.48	1.4%
	Copper	9.59	9.03	6.0%
	Lead	4.81	4.73	1.7%
	Manganese	269	274	1.8%
	Mercury	0.0079	0.0080	AC
	Nickel	10.3	9.73	5.7%
	Selenium	0.27	0.21	AC
	Vanadium	7.09	6.70	5.7%
	Zinc	18.9	15.6	19.1%
	P2-SB-33(5-6')083011 Duplicate 2-P2	Arsenic	1.86	3.06
Barium		44.2	56.5	24.4%
Beryllium		0.27	0.30	AC
Cadmium		0.15	0.20	28.6%
Chromium		5.36	9.81	58.7%
Cobalt		4.15	5.03	19.2%
Copper		8.94	14.0	44.1%
Lead		56.6	27.0	70.8%
Manganese		182	416	78.3%
Mercury		0.0193	0.0215	AC
Nickel		8.99	13.3	38.7%
Selenium		0.11	0.14	AC
Vanadium		8.05	9.64	18.0%

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
	Zinc	24.3	39.4	47.4%

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)					
Tier I Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Instrument Blanks					X
B. Method Blanks		X		X	
C. Rinse Blanks					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 7, 2011

PEER REVIEW BY: Dennis Capria

DATE: November 7, 2011

CORRECTED SAMPLE ANALYSIS DATA SHEETS AND COCs



Analytical Laboratory Report

Lab Sample ID: S49858.01
 Sample Tag: P2-SB-23(3-4')082911
 Collected Date/Time: 08/29/2011 10:30
 Matrix: Soil
 COC Reference: 16139

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	08/31/11 23:59	EMR		
Extraction, PCB	Completed			3550B	08/31/11 14:54	ADB		
Mercury Digestion	Completed			7471A	09/06/11 10:35	JRH		
Metal Digestion	Completed			3050B	09/08/11 10:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	08/31/11 11:00	DJS		
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Metals

Antimony	Not detected	mg/kg	0.12	6020	09/08/11 01:08	PER	7440-36-0	
Arsenic	0.31	mg/kg	0.12	6020	09/08/11 01:08	PER	7440-38-2	
Barium	22.3	mg/kg	1.25	6020	09/08/11 01:08	PER	7440-39-3	
Beryllium	0.16	mg/kg	0.12	6020	09/08/11 01:08	PER	7440-41-7	
Boron	Not detected	mg/kg	5.0	6020	09/08/11 01:08	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.12	6020	09/08/11 01:08	PER	7440-43-9	
Chromium	6.92	mg/kg	0.12	6020	09/08/11 01:08	PER	7440-47-3	
Cobalt	2.03	mg/kg	0.12	6020	09/08/11 01:08	PER	7440-48-4	
Copper	3.61	mg/kg	0.12	6020	09/08/11 01:08	PER	7440-50-8	
Lead	3.97	mg/kg	0.12	6020	09/08/11 01:08	PER	7439-92-1	
Manganese	34.0	mg/kg	0.12	6020	09/08/11 01:08	PER	7439-96-5	
Mercury	0.0163	mg/kg	0.0058	7471A	09/06/11 15:04	JRT	7439-97-6	
Nickel	4.35	mg/kg	0.12	6020	09/08/11 01:08	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.12	6020	09/08/11 01:08	PER	7782-49-2	
Silver	Not detected	mg/kg	0.12	6020	09/08/11 01:08	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.12	6020	09/08/11 01:08	PER	7440-28-0	
Vanadium	5.38	mg/kg	0.12	6020	09/08/11 01:08	PER	7440-62-2	
Zinc	13.2	mg/kg	0.12	6020	09/08/11 01:08	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	20	8082	08/31/11 15:22	JANB	12674-11-2	Y	J
PCB-1242	Not detected	ug/kg	20	8082	08/31/11 15:22	JANB	53469-21-9	Y	J
PCB-1221	Not detected	ug/kg	20	8082	08/31/11 15:22	JANB	11104-28-2	Y	J
PCB-1232	Not detected	ug/kg	20	8082	08/31/11 15:22	JANB	11141-16-5	Y	J
PCB-1248	Not detected	ug/kg	20	8082	08/31/11 15:22	JANB	12672-29-6	Y	J
PCB-1254	120	ug/kg	20	8082	08/31/11 15:22	JANB	11097-69-1	Y	J
PCB-1260	Not detected	ug/kg	20	8082	08/31/11 15:22	JANB	11096-82-5	Y	J

TCL PCB List (Column 2)

PCB-1016	Not detected	ug/kg	20	8082	08/31/11 15:22	JANB	12674-11-2	Y	J
PCB-1242	Not detected	ug/kg	20	8082	08/31/11 15:22	JANB	53469-21-9	Y	J

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S49858.01 (continued)
Sample Tag: P2-SB-23(3-4')082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
TCL PCB List (Column 2) (continued)								
PCB-1221	Not detected	ug/kg	20	8082	08/31/11 15:22	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	20	8082	08/31/11 15:22	JANB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	20	8082	08/31/11 15:22	JANB	12672-29-6	Y
PCB-1254	130	ug/kg	20	8082	08/31/11 15:22	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	20	8082	08/31/11 15:22	JANB	11096-82-5	Y
Organics - Semi-Volatiles								
TCL Semi-Volatile Organics								
Acenaphthene	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	09/07/11 21:03	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	100-52-7	
Benzo(a)anthracene	80	ug/kg	40	8270C	09/07/11 21:03	PL	56-55-3	
Benzo(a)pyrene	80	ug/kg	40	8270C	09/07/11 21:03	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	207-08-9	
Butyl benzyl phthalate	190	ug/kg	40	8270C	09/07/11 21:03	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	95-57-8	
4-Chloro-3-methylphenol	50	ug/kg	40	8270C	09/07/11 21:03	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	86-74-8	
bis(2-Chloroethoxy)methane	350	ug/kg	40	8270C	09/07/11 21:03	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	108-60-1	
Chrysene	110	ug/kg	80	8270C	09/07/11 21:03	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	120-83-2	
2,4-Dimethylphenol	8400	ug/kg	200	8270C	09/07/11 21:03	PL	105-67-9	E
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	09/07/11 21:03	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	09/07/11 21:03	PL	84-66-2	
Dimethyl phthalate	100	ug/kg	80	8270C	09/07/11 21:03	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	220	ug/kg	40	8270C	09/07/11 21:03	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	206-44-0	

Y-Elevated reporting limit due to high target concentration

E-Concentration exceeds calibration range



Analytical Laboratory Report

Lab Sample ID: S49858.01 (continued)
 Sample Tag: P2-SB-23(3-4)082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Hexachlorobenzene	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	3/4-Cresol	
2-Nitroaniline	40	ug/kg	40	8270C	09/07/11 21:03	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	100-02-7	
N-Nitrosodi-n-propylamine	670	ug/kg	40	8270C	09/07/11 21:03	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	91-20-3	
Nitrobenzene	80	ug/kg	40	8270C	09/07/11 21:03	PL	98-95-3	
di-n-Octyl phthalate	720	ug/kg	40	8270C	09/07/11 21:03	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 21:03	PL	88-06-2	
TCL Semi-Volatile Organics (Replicate 01)								
Acenaphthene	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	208-96-8	
Acetophenone	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	98-86-2	
Anthracene	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	120-12-7	
Atrazine	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	1912-24-9	X
1,1'-Biphenyl	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	56-55-3	I
Benzo(a)pyrene	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	50-32-8	I
Benzo(b)fluoranthene	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	205-99-2	I
Benzo(ghi)perylene	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	191-24-2	I
Benzo(k)fluoranthene	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	207-08-9	I
Butyl benzyl phthalate	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	85-68-7	I
2-Chloronaphthalene	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	7005-72-3	

X-Elevated reporting limit due to matrix interference
 I-Matrix interference with internal standard



Analytical Laboratory Report

Lab Sample ID: S49858.01 (continued)

Sample Tag: P2-SB-23(3-4)082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (Replicate 01) (continued)								
Caprolactam	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	105-60-2	
Carbazole	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	108-60-1	
Chrysene	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	120-83-2	
2,4-Dimethylphenol	8,400	ug/kg	200	8270C	09/14/11 04:59	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	91-94-1	I
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	53-70-3	I
Dibenzofuran	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	117-81-7	I
Fluoranthene	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	206-44-0	
Fluorene	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	193-39-5	I
Isophorone	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	86-30-6	
Naphthalene	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	117-84-0	I
Pentachlorophenol	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	85-01-8	
Phenol	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	108-95-2	
Pyrene	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	129-00-0	I
2,4,5-Trichlorophenol	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	200	8270C	09/14/11 04:59	PL	88-06-2	

X-Elevated reporting limit due to matrix interference

I-Matrix interference with internal standard



Analytical Laboratory Report

Lab Sample ID: S49858.01 (continued)

Sample Tag: P2-SB-23(3-4)082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	3	8260B - SIM	08/31/11 15:49	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/kg	1	8260B - SIM	08/31/11 15:49	JGH	106-93-4	
1,4-Dioxane	Not detected	ug/kg	300	8260B	08/31/11 15:49	WAT	123-91-1	
TCL Volatile Organics HighLevel 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	76-13-1	
Acetone	Not detected	ug/kg	630	5035/8260B	09/03/11 01:52	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	630	5035/8260B	09/03/11 01:52	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	630	5035/8260B	09/03/11 01:52	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	630	5035/8260B	09/03/11 01:52	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	630	5035/8260B	09/03/11 01:52	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/03/11 01:52	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	541-73-1	



Analytical Laboratory Report

Lab Sample ID: S49858.01 (continued)

Sample Tag: P2-SB-23(3-4)082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 01:52	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S49858.02
 Sample Tag: P2-SB-23(19-20)082911
 Collected Date/Time: 08/29/2011 10:35
 Matrix: Soil
 COC Reference: 16139

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	08/31/11 23:59	EMR		
Extraction, PCB	Completed			3550B	08/31/11 14:54	ADB		
Mercury Digestion	Completed			7471A	09/06/11 10:35	JRH		
Metal Digestion	Completed			3050B	09/08/11 10:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	08/31/11 11:00	DJS		
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Metals

Antimony	Not detected	mg/kg	0.12	6020	09/08/11 01:12	PER	7440-36-0
Arsenic	2.23	mg/kg	0.12	6020	09/08/11 01:12	PER	7440-38-2
Barium	37.4	mg/kg	1.15	6020	09/08/11 01:12	PER	7440-39-3
Beryllium	0.20	mg/kg	0.12	6020	09/08/11 01:12	PER	7440-41-7
Boron	Not detected	mg/kg	4.60	6020	09/08/11 01:12	PER	7440-42-8
Cadmium	Not detected	mg/kg	0.12	6020	09/08/11 01:12	PER	7440-43-9
Chromium	5.48	mg/kg	0.12	6020	09/08/11 01:12	PER	7440-47-3
Cobalt	3.97	mg/kg	0.12	6020	09/08/11 01:12	PER	7440-48-4
Copper	9.79	mg/kg	0.12	6020	09/08/11 01:12	PER	7440-50-8
Lead	4.66	mg/kg	0.12	6020	09/08/11 01:12	PER	7439-92-1
Manganese	237	mg/kg	0.12	6020	09/08/11 01:12	PER	7439-96-5
Mercury	0.0104	mg/kg	0.0058	7471A	09/06/11 15:06	JRT	7439-97-6
Nickel	11.1	mg/kg	0.12	6020	09/08/11 01:12	PER	7440-02-0
Selenium	0.14	mg/kg	0.12	6020	09/08/11 01:12	PER	7782-49-2
Silver	Not detected	mg/kg	0.12	6020	09/08/11 01:12	PER	7440-22-4
Thallium	Not detected	mg/kg	0.12	6020	09/08/11 01:12	PER	7440-28-0
Vanadium	7.82	mg/kg	0.12	6020	09/08/11 01:12	PER	7440-62-2
Zinc	17.2	mg/kg	0.12	6020	09/08/11 01:12	PER	7440-66-6

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 14:47	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 14:47	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 14:47	JANB	11104-28-2
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 14:47	JANB	11141-16-5
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 14:47	JANB	12672-29-6
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 14:47	JANB	11097-69-1
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 14:47	JANB	11096-82-5

TCL PCB List (Column 2)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 14:47	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 14:47	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 14:47	JANB	11104-28-2



Analytical Laboratory Report

Lab Sample ID: S49858.02 (continued)
 Sample Tag: P2-SB-23(19-20)082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
TCL PCB List (Column 2) (continued)								
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 14:47	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 14:47	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 14:47	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 14:47	JANB	11096-82-5	
Organics - Semi-Volatiles								
TCL Semi-Volatile Organics								
Acenaphthene	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	09/07/11 21:36	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	108-60-1	
Chrysene	Not detected	ug/kg	70	8270C	09/07/11 21:36	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	09/07/11 21:36	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	09/07/11 21:36	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	70	8270C	09/07/11 21:36	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	60	ug/kg	40	8270C	09/07/11 21:36	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	87-68-3	



Analytical Laboratory Report

Lab Sample ID: S49858.02 (continued)

Sample Tag: P2-SB-23(19-20)082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	98-95-3	
di-n-Octyl phtalate	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 21:36	PL	88-06-2	
Organics - Volatiles								
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	3	J 8260B - SIM	08/31/11 16:07	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/kg	4	J 8260B - SIM	08/31/11 16:07	JGH	106-93-4	X
1,4-Dioxane	Not detected	ug/kg	300	8260B	08/31/11 16:07	WAT	123-91-1	
TCL Volatile Organics HighLevel 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	76-13-1	
Acetone	Not detected	ug/kg	610	5035/8260B	09/03/11 02:10	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	610	5035/8260B	09/03/11 02:10	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	610	5035/8260B	09/03/11 02:10	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	67-66-3	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S49858.02 (continued)

Sample Tag: P2-SB-23(19-20)082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	610	5035/8260B	09/03/11 02:10	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	610	5035/8260B	09/03/11 02:10	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/03/11 02:10	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:10	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S49858.03
 Sample Tag: P2-SB-26(5-6')082911
 Collected Date/Time: 08/29/2011 11:10
 Matrix: Soil
 COC Reference: 16139

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	08/31/11 23:59	EMR		
Extraction, PCB	Completed			3550B	08/31/11 14:54	ADB		
Mercury Digestion	Completed			7471A	09/06/11 10:35	JRH		
Metal Digestion	Completed			3050B	09/08/11 10:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	08/31/11 11:00	DJS		
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Metals

Antimony	Not detected	mg/kg	0.12	6020	09/08/11 01:15	PER	7440-36-0
Arsenic	1.57	mg/kg	0.12	6020	09/08/11 01:15	PER	7440-38-2
Barium	29.6	mg/kg	1.15	6020	09/08/11 01:15	PER	7440-39-3
Beryllium	0.20	mg/kg	0.12	6020	09/08/11 01:15	PER	7440-41-7
Boron	Not detected	mg/kg	4.60	6020	09/08/11 01:15	PER	7440-42-8
Cadmium	Not detected	mg/kg	0.12	6020	09/08/11 01:15	PER	7440-43-9
Chromium	4.77	mg/kg	0.12	6020	09/08/11 01:15	PER	7440-47-3
Cobalt	3.53	mg/kg	0.12	6020	09/08/11 01:15	PER	7440-48-4
Copper	9.59	mg/kg	0.12	6020	09/08/11 01:15	PER	7440-50-8
Lead	4.81	mg/kg	0.12	6020	09/08/11 01:15	PER	7439-92-1
Manganese	269	mg/kg	0.12	6020	09/08/11 01:15	PER	7439-96-5
Mercury	0.0079	mg/kg	0.0057	7471A	09/06/11 15:08	JRT	7439-97-6
Nickel	10.3	mg/kg	0.12	6020	09/08/11 01:15	PER	7440-02-0
Selenium	0.27	mg/kg	0.12	6020	09/08/11 01:15	PER	7782-49-2
Silver	Not detected	mg/kg	0.12	6020	09/08/11 01:15	PER	7440-22-4
Thallium	Not detected	mg/kg	0.12	6020	09/08/11 01:15	PER	7440-28-0
Vanadium	7.09	mg/kg	0.12	6020	09/08/11 01:15	PER	7440-62-2
Zinc	18.9	mg/kg	0.12	6020	09/08/11 01:15	PER	7440-66-6

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 14:57	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 14:57	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 14:57	JANB	11104-28-2
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 14:57	JANB	11141-16-5
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 14:57	JANB	12672-29-6
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 14:57	JANB	11097-69-1
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 14:57	JANB	11096-82-5

TCL PCB List (Column 2)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 14:57	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 14:57	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 14:57	JANB	11104-28-2



Analytical Laboratory Report

Lab Sample ID: S49858.03 (continued)
 Sample Tag: P2-SB-26(5-6')082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
TCL PCB List (Column 2) (continued)								
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 14:57	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 14:57	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 14:57	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 14:57	JANB	11096-82-5	
Organics - Semi-Volatiles								
TCL Semi-Volatile Organics								
Acenaphthene	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	09/07/11 22:10	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	108-60-1	
Chrysene	Not detected	ug/kg	70	8270C	09/07/11 22:10	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	09/07/11 22:10	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	09/07/11 22:10	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	70	8270C	09/07/11 22:10	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	60	ug/kg	40	8270C	09/07/11 22:10	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	87-68-3	



Analytical Laboratory Report

Lab Sample ID: S49858.03 (continued)

Sample Tag: P2-SB-26(5-6')082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 22:10	PL	88-06-2	
Organics - Volatiles								
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	3	8260B - SIM	08/31/11 16:26	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/kg	1	8260B - SIM	08/31/11 16:26	JGH	106-93-4	
1,4-Dioxane	Not detected	ug/kg	300	8260B	08/31/11 16:26	WAT	123-91-1	
TCL Volatile Organics HighLevel 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	76-13-1	
Acetone	Not detected	ug/kg	620	5035/8260B	09/03/11 02:29	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	620	5035/8260B	09/03/11 02:29	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	620	5035/8260B	09/03/11 02:29	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	71-55-6	



Analytical Laboratory Report

Lab Sample ID: S49858.03 (continued)

Sample Tag: P2-SB-26(5-6')082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	620	5035/8260B	09/03/11 02:29	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	620	5035/8260B	09/03/11 02:29	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/03/11 02:29	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 02:29	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S49858.04
 Sample Tag: Duplicate 1-P2
 Collected Date/Time: 08/29/2011 11:15
 Matrix: Soil
 COC Reference: 16139

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	08/31/11 23:59	EMR		
Extraction, PCB	Completed			3550B	08/31/11 14:54	ADB		
Mercury Digestion	Completed			7471A	09/06/11 10:35	JRH		
Metal Digestion	Completed			3050B	09/08/11 10:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	08/31/11 11:00	DJS		
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Metals

Antimony	Not detected	mg/kg	0.11	6020	09/08/11 01:17	PER	7440-36-0
Arsenic	1.84	mg/kg	0.11	6020	09/08/11 01:17	PER	7440-38-2
Barium	30.0	mg/kg	1.11	6020	09/08/11 01:17	PER	7440-39-3
Beryllium	0.19	mg/kg	0.11	6020	09/08/11 01:17	PER	7440-41-7
Boron	Not detected	mg/kg	4.42	6020	09/08/11 01:17	PER	7440-42-8
Cadmium	Not detected	mg/kg	0.11	6020	09/08/11 01:17	PER	7440-43-9
Chromium	4.72	mg/kg	0.11	6020	09/08/11 01:17	PER	7440-47-3
Cobalt	3.48	mg/kg	0.11	6020	09/08/11 01:17	PER	7440-48-4
Copper	9.03	mg/kg	0.11	6020	09/08/11 01:17	PER	7440-50-8
Lead	4.73	mg/kg	0.11	6020	09/08/11 01:17	PER	7439-92-1
Manganese	274	mg/kg	0.11	6020	09/08/11 01:17	PER	7439-96-5
Mercury	0.0080	mg/kg	0.0056	7471A	09/06/11 15:10	JRT	7439-97-6
Nickel	9.73	mg/kg	0.11	6020	09/08/11 01:17	PER	7440-02-0
Selenium	0.21	mg/kg	0.11	6020	09/08/11 01:17	PER	7782-49-2
Silver	Not detected	mg/kg	0.11	6020	09/08/11 01:17	PER	7440-22-4
Thallium	Not detected	mg/kg	0.11	6020	09/08/11 01:17	PER	7440-28-0
Vanadium	6.70	mg/kg	0.11	6020	09/08/11 01:17	PER	7440-62-2
Zinc	15.6	mg/kg	0.11	6020	09/08/11 01:17	PER	7440-66-6

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 15:33	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 15:33	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 15:33	JANB	11104-28-2
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 15:33	JANB	11141-16-5
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 15:33	JANB	12672-29-6
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 15:33	JANB	11097-69-1
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 15:33	JANB	11096-82-5

TCL PCB List (Column 2)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 15:33	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 15:33	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 15:33	JANB	11104-28-2



Analytical Laboratory Report

Lab Sample ID: S49858.04 (continued)

Sample Tag: Duplicate 1-P2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
TCL PCB List (Column 2) (continued)								
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 15:33	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 15:33	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 15:33	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 15:33	JANB	11096-82-5	
Organics - Semi-Volatiles								
TCL Semi-Volatile Organics								
Acenaphthene	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	09/07/11 22:43	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	108-60-1	
Chrysene	Not detected	ug/kg	70	8270C	09/07/11 22:43	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	09/07/11 22:43	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	09/07/11 22:43	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	70	8270C	09/07/11 22:43	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	70	ug/kg	40	8270C	09/07/11 22:43	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	87-68-3	



Analytical Laboratory Report

Lab Sample ID: S49858.04 (continued)

Sample Tag: Duplicate 1-P2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 22:43	PL	88-06-2	
Organics - Volatiles								
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	3	8260B - SIM	08/31/11 16:44	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/kg	1	8260B - SIM	08/31/11 16:44	JGH	106-93-4	
1,4-Dioxane	Not detected	ug/kg	300	8260B	08/31/11 16:44	WAT	123-91-1	
TCL Volatile Organics HighLevel 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	76-13-1	
Acetone	Not detected	ug/kg	650	5035/8260B	09/03/11 02:47	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	650	5035/8260B	09/03/11 02:47	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	650	5035/8260B	09/03/11 02:47	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	71-55-6	



Analytical Laboratory Report

Lab Sample ID: S49858.04 (continued)

Sample Tag: Duplicate 1-P2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
Cyclohexane	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	650	5035/8260B	09/03/11 02:47	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	650	5035/8260B	09/03/11 02:47	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/03/11 02:47	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 02:47	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S49858.05
 Sample Tag: P2-SB-26(19-20)082911
 Collected Date/Time: 08/29/2011 11:20
 Matrix: Soil
 COC Reference: 16139

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	08/31/11 23:59	EMR		
Extraction, PCB	Completed			3550B	08/31/11 14:54	ADB		
Mercury Digestion	Completed			7471A	09/06/11 10:35	JRH		
Metal Digestion	Completed			3050B	09/08/11 10:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	08/31/11 11:00	DJS		
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Metals

Antimony	Not detected	mg/kg	0.12	6020	09/08/11 01:22	PER	7440-36-0
Arsenic	2.43	mg/kg	0.12	6020	09/08/11 01:22	PER	7440-38-2
Barium	38.1	mg/kg	1.24	6020	09/08/11 01:22	PER	7440-39-3
Beryllium	0.19	mg/kg	0.12	6020	09/08/11 01:22	PER	7440-41-7
Boron	Not detected	mg/kg	4.96	6020	09/08/11 01:22	PER	7440-42-8
Cadmium	Not detected	mg/kg	0.12	6020	09/08/11 01:22	PER	7440-43-9
Chromium	5.36	mg/kg	0.12	6020	09/08/11 01:22	PER	7440-47-3
Cobalt	4.03	mg/kg	0.12	6020	09/08/11 01:22	PER	7440-48-4
Copper	8.40	mg/kg	0.12	6020	09/08/11 01:22	PER	7440-50-8
Lead	4.60	mg/kg	0.12	6020	09/08/11 01:22	PER	7439-92-1
Manganese	236	mg/kg	0.12	6020	09/08/11 01:22	PER	7439-96-5
Mercury	0.0077	mg/kg	0.0057	7471A	09/06/11 15:23	JRT	7439-97-6
Nickel	11.4	mg/kg	0.12	6020	09/08/11 01:22	PER	7440-02-0
Selenium	Not detected	mg/kg	0.12	6020	09/08/11 01:22	PER	7782-49-2
Silver	Not detected	mg/kg	0.12	6020	09/08/11 01:22	PER	7440-22-4
Thallium	Not detected	mg/kg	0.12	6020	09/08/11 01:22	PER	7440-28-0
Vanadium	7.66	mg/kg	0.12	6020	09/08/11 01:22	PER	7440-62-2
Zinc	18.9	mg/kg	0.12	6020	09/08/11 01:22	PER	7440-66-6

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 13:33	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 13:33	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 13:33	JANB	11104-28-2
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 13:33	JANB	11141-16-5
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 13:33	JANB	12672-29-6
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 13:33	JANB	11097-69-1
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 13:33	JANB	11096-82-5

TCL PCB List (Column 2)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 13:33	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 13:33	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 13:33	JANB	11104-28-2



Analytical Laboratory Report

Lab Sample ID: S49858.05 (continued)

Sample Tag: P2-SB-26(19-20)082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
TCL PCB List (Column 2) (continued)								
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 13:33	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 13:33	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 13:33	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 13:33	JANB	11096-82-5	
Organics - Semi-Volatiles								
TCL Semi-Volatile Organics								
Acenaphthene	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	09/06/11 17:40	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	108-60-1	
Chrysene	Not detected	ug/kg	70	8270C	09/06/11 17:40	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	09/06/11 17:40	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	09/06/11 17:40	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	70	8270C	09/06/11 17:40	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	60	ug/kg	40	8270C	09/06/11 17:40	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	87-68-3	



Analytical Laboratory Report

Lab Sample ID: S49858.05 (continued)
 Sample Tag: P2-SB-26(19-20)082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	09/06/11 17:40	PL	88-06-2	
Organics - Volatiles								
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	3	JJ 8260B - SIM	08/31/11 21:37	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/kg	3	JJ 8260B - SIM	08/31/11 21:37	JGH	106-93-4	X
1,4-Dioxane	Not detected	ug/kg	300	8260B	08/31/11 21:37	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	76-13-1	
Acetone	Not detected	ug/kg	630	5035/8260B	09/03/11 03:05	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	630	5035/8260B	09/03/11 03:05	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	630	5035/8260B	09/03/11 03:05	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	67-66-3	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S49858.05 (continued)

Sample Tag: P2-SB-26(19-20)082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	630	5035/8260B	09/03/11 03:05	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	630	5035/8260B	09/03/11 03:05	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/03/11 03:05	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:05	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S49858.06
 Sample Tag: P2-SB-26(19-20)082911 MS
 Collected Date/Time: 08/29/2011 11:25
 Matrix: Soil
 COC Reference: 16139

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	08/31/11 23:59	EMR		
Extraction, PCB	Completed			3550B	08/31/11 14:54	ADB		
Mercury Digestion	Completed			7471A	09/06/11 10:35	JRH		
Metal Digestion	Completed			3050B	09/08/11 10:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	08/31/11 11:00	DJS		
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Metals

Antimony	27.4	mg/kg	0.12	6020	09/08/11 01:24	PER	7440-36-0
Arsenic	27.7	mg/kg	0.12	6020	09/08/11 01:24	PER	7440-38-2
Barium	66.3	mg/kg	1.24	6020	09/08/11 01:24	PER	7440-39-3
Beryllium	26.0	mg/kg	0.12	6020	09/08/11 01:24	PER	7440-41-7
Boron	24.1	mg/kg	4.96	6020	09/08/11 01:24	PER	7440-42-8
Cadmium	26.9	mg/kg	0.12	6020	09/08/11 01:24	PER	7440-43-9
Chromium	29.5	mg/kg	0.12	6020	09/08/11 01:24	PER	7440-47-3
Cobalt	28.4	mg/kg	0.12	6020	09/08/11 01:24	PER	7440-48-4
Copper	30.4	mg/kg	0.12	6020	09/08/11 01:24	PER	7440-50-8
Lead	29.0	mg/kg	0.12	6020	09/08/11 01:24	PER	7439-92-1
Manganese	261	mg/kg	0.12	6020	09/08/11 01:24	PER	7439-96-5
Mercury	0.1147	mg/kg	0.0057	7471A	09/06/11 15:26	JRT	7439-97-6
Nickel	33.5	mg/kg	0.12	6020	09/08/11 01:24	PER	7440-02-0
Selenium	24.0	mg/kg	0.12	6020	09/08/11 01:24	PER	7782-49-2
Silver	24.8	mg/kg	0.12	6020	09/08/11 01:24	PER	7440-22-4
Thallium	22.8	mg/kg	0.12	6020	09/08/11 01:24	PER	7440-28-0
Vanadium	32.2	mg/kg	0.12	6020	09/08/11 01:24	PER	7440-62-2
Zinc	40.1	mg/kg	0.12	6020	09/08/11 01:24	PER	7440-66-6

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	20	ug/kg	3	8082	08/31/11 13:44	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 13:44	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 13:44	JANB	11104-28-2
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 13:44	JANB	11141-16-5
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 13:44	JANB	12672-29-6
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 13:44	JANB	11097-69-1
PCB-1260	20	ug/kg	3	8082	08/31/11 13:44	JANB	11096-82-5

TCL PCB List (Column 2)

PCB-1016	20	ug/kg	3	8082	08/31/11 13:44	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 13:44	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 13:44	JANB	11104-28-2



Analytical Laboratory Report

Lab Sample ID: S49858.08
 Sample Tag: P2-SB-18(4-5)082911
 Collected Date/Time: 08/29/2011 12:15
 Matrix: Soil
 COC Reference: 16139

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	08/31/11 23:59	EMR		
Extraction, PCB	Completed			3550B	08/31/11 14:54	ADB		
Mercury Digestion	Completed			7471A	09/06/11 10:35	JRH		
Metal Digestion	Completed			3050B	09/08/11 10:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	08/31/11 11:00	DJS		
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Metals

Antimony	Not detected	mg/kg	0.12	6020	09/08/11 01:37	PER	7440-36-0	
Arsenic	1.83	mg/kg	0.12	6020	09/08/11 01:37	PER	7440-38-2	
Barium	47.0	mg/kg	1.19	6020	09/08/11 01:37	PER	7440-39-3	
Beryllium	0.25	mg/kg	0.12	6020	09/08/11 01:37	PER	7440-41-7	
Boron	Not detected	mg/kg	4.76	6020	09/08/11 01:37	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.12	6020	09/08/11 01:37	PER	7440-43-9	
Chromium	5.32	mg/kg	0.12	6020	09/08/11 01:37	PER	7440-47-3	
Cobalt	4.75	mg/kg	0.12	6020	09/08/11 01:37	PER	7440-48-4	
Copper	9.93	mg/kg	0.12	6020	09/08/11 01:37	PER	7440-50-8	
Lead	5.25	mg/kg	0.12	6020	09/08/11 01:37	PER	7439-92-1	
Manganese	319	mg/kg	0.12	6020	09/08/11 01:37	PER	7439-96-5	
Mercury	0.0090	mg/kg	0.0054	7471A	09/06/11 15:12	JRT	7439-97-6	
Nickel	10.7	mg/kg	0.12	6020	09/08/11 01:37	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.12	6020	09/08/11 01:37	PER	7782-49-2	
Silver	Not detected	mg/kg	0.12	6020	09/08/11 01:37	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.12	6020	09/08/11 01:37	PER	7440-28-0	
Vanadium	8.81	mg/kg	0.12	6020	09/08/11 01:37	PER	7440-62-2	
Zinc	17.0	mg/kg	0.12	6020	09/08/11 01:37	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 15:43	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 15:43	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 15:43	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 15:43	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 15:43	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 15:43	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 15:43	JANB	11096-82-5	

TCL PCB List (Column 2)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 15:43	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 15:43	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 15:43	JANB	11104-28-2	



Analytical Laboratory Report

Lab Sample ID: S49858.08 (continued)

Sample Tag: P2-SB-18(4-5)082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
TCL PCB List (Column 2) (continued)								
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 15:43	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 15:43	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 15:43	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 15:43	JANB	11096-82-5	
Organics - Semi-Volatiles								
TCL Semi-Volatile Organics								
Acenaphthene	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	09/07/11 23:16	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	108-60-1	
Chrysene	Not detected	ug/kg	70	8270C	09/07/11 23:16	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	09/07/11 23:16	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	09/07/11 23:16	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	70	8270C	09/07/11 23:16	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	70	ug/kg	40	8270C	09/07/11 23:16	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	87-68-3	



Analytical Laboratory Report

Lab Sample ID: S49858.08 (continued)

Sample Tag: P2-SB-18(4-5')082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 23:16	PL	88-06-2	
Organics - Volatiles								
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	3	8260B - SIM	08/31/11 17:02	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/kg	1	8260B - SIM	08/31/11 17:02	JGH	106-93-4	
1,4-Dioxane	Not detected	ug/kg	300	8260B	08/31/11 17:02	WAT	123-91-1	
TCL Volatile Organics HighLevel 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	76-13-1	
Acetone	Not detected	ug/kg	610	5035/8260B	09/03/11 03:23	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	610	5035/8260B	09/03/11 03:23	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	610	5035/8260B	09/03/11 03:23	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	71-55-6	



Analytical Laboratory Report

Lab Sample ID: S49858.08 (continued)

Sample Tag: P2-SB-18(4-5')082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	610	5035/8260B	09/03/11 03:23	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	610	5035/8260B	09/03/11 03:23	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/03/11 03:23	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:23	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S49858.09
 Sample Tag: P2-SB-18(19-20)082911
 Collected Date/Time: 08/29/2011 12:20
 Matrix: Soil
 COC Reference: 16139

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	08/31/11 23:59	EMR		
Extraction, PCB	Completed			3550B	08/31/11 14:54	ADB		
Mercury Digestion	Completed			7471A	09/06/11 10:35	JRH		
Metal Digestion	Completed			3050B	09/08/11 10:00	PER		

Inorganics

Total Solids	91	%	1	Std M 2540 B	09/01/11 11:45	DJS		
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Metals

Antimony	Not detected	mg/kg	0.12	6020	09/08/11 01:39	PER	7440-36-0
Arsenic	2.14	mg/kg	0.12	6020	09/08/11 01:39	PER	7440-38-2
Barium	30.4	mg/kg	1.19	6020	09/08/11 01:39	PER	7440-39-3
Beryllium	0.18	mg/kg	0.12	6020	09/08/11 01:39	PER	7440-41-7
Boron	Not detected	mg/kg	4.76	6020	09/08/11 01:39	PER	7440-42-8
Cadmium	Not detected	mg/kg	0.12	6020	09/08/11 01:39	PER	7440-43-9
Chromium	3.99	mg/kg	0.12	6020	09/08/11 01:39	PER	7440-47-3
Cobalt	2.81	mg/kg	0.12	6020	09/08/11 01:39	PER	7440-48-4
Copper	7.19	mg/kg	0.12	6020	09/08/11 01:39	PER	7440-50-8
Lead	4.14	mg/kg	0.12	6020	09/08/11 01:39	PER	7439-92-1
Manganese	200	mg/kg	0.12	6020	09/08/11 01:39	PER	7439-96-5
Mercury	0.0078	mg/kg	0.0054	7471A	09/06/11 15:15	JRT	7439-97-6
Nickel	8.44	mg/kg	0.12	6020	09/08/11 01:39	PER	7440-02-0
Selenium	0.20	mg/kg	0.12	6020	09/08/11 01:39	PER	7782-49-2
Silver	Not detected	mg/kg	0.12	6020	09/08/11 01:39	PER	7440-22-4
Thallium	Not detected	mg/kg	0.12	6020	09/08/11 01:39	PER	7440-28-0
Vanadium	6.04	mg/kg	0.12	6020	09/08/11 01:39	PER	7440-62-2
Zinc	13.5	mg/kg	0.12	6020	09/08/11 01:39	PER	7440-66-6

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 15:54	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 15:54	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 15:54	JANB	11104-28-2
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 15:54	JANB	11141-16-5
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 15:54	JANB	12672-29-6
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 15:54	JANB	11097-69-1
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 15:54	JANB	11096-82-5

TCL PCB List (Column 2)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 15:54	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 15:54	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 15:54	JANB	11104-28-2



Analytical Laboratory Report

Lab Sample ID: S49858.09 (continued)

Sample Tag: P2-SB-18(19-20)082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
TCL PCB List (Column 2) (continued)								
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 15:54	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 15:54	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 15:54	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 15:54	JANB	11096-82-5	
Organics - Semi-Volatiles								
TCL Semi-Volatile Organics								
Acenaphthene	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	09/07/11 23:50	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	108-60-1	
Chrysene	Not detected	ug/kg	70	8270C	09/07/11 23:50	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	09/07/11 23:50	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	09/07/11 23:50	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	70	8270C	09/07/11 23:50	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	60	ug/kg	40	8270C	09/07/11 23:50	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	87-68-3	



Analytical Laboratory Report

Lab Sample ID: S49858.09 (continued)
 Sample Tag: P2-SB-18(19-20)082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 23:50	PL	88-06-2	
Organics - Volatiles								
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	3	8260B - SIM	08/31/11 17:21	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/kg	3	8260B - SIM	08/31/11 17:21	JGH	106-93-4	-X
1,4-Dioxane	Not detected	ug/kg	300	8260B	08/31/11 17:21	WAT	123-91-1	
TCL Volatile Organics HighLevel 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	76-13-1	
Acetone	Not detected	ug/kg	600	5035/8260B	09/03/11 03:41	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	600	5035/8260B	09/03/11 03:41	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	600	5035/8260B	09/03/11 03:41	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	67-66-3	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S49858.09 (continued)
Sample Tag: P2-SB-18(19-20)082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	600	5035/8260B	09/03/11 03:41	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	600	5035/8260B	09/03/11 03:41	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/03/11 03:41	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 03:41	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S49858.10
 Sample Tag: P2-SB-21(4-5)082911
 Collected Date/Time: 08/29/2011 16:40
 Matrix: Soil
 COC Reference: 16139

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/01/11 23:55	EMR		
Extraction, PCB	Completed			3550B	08/31/11 14:54	ADB		
Mercury Digestion	Completed			7471A	09/06/11 10:35	JRH		
Metal Digestion	Completed			3050B	09/08/11 10:00	PER		

Inorganics

Total Solids	79	%	1	Std M 2540 B	09/01/11 11:45	DJS		
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Metals

Antimony	Not detected	mg/kg	0.13	6020	09/08/11 02:29	PER	7440-36-0	
Arsenic	0.61	mg/kg	0.13	6020	09/08/11 02:29	PER	7440-38-2	
Barium	71.9	mg/kg	1.28	6020	09/08/11 02:29	PER	7440-39-3	
Beryllium	0.44	mg/kg	0.13	6020	09/08/11 02:29	PER	7440-41-7	
Boron	Not detected	mg/kg	5.14	6020	09/08/11 02:29	PER	7440-42-8	
Cadmium	0.35	mg/kg	0.13	6020	09/08/11 02:29	PER	7440-43-9	
Chromium	6.07	mg/kg	0.13	6020	09/08/11 02:29	PER	7440-47-3	
Cobalt	3.09	mg/kg	0.13	6020	09/08/11 02:29	PER	7440-48-4	
Copper	7.63	mg/kg	0.13	6020	09/08/11 02:29	PER	7440-50-8	
Lead	10.6	mg/kg	0.13	6020	09/08/11 02:29	PER	7439-92-1	
Manganese	111	mg/kg	0.13	6020	09/08/11 02:29	PER	7439-96-5	
Mercury	0.0380	mg/kg	0.0061	7471A	09/06/11 15:17	JRT	7439-97-6	
Nickel	6.12	mg/kg	0.13	6020	09/08/11 02:29	PER	7440-02-0	
Selenium	0.46	mg/kg	0.13	6020	09/08/11 02:29	PER	7782-49-2	
Silver	Not detected	mg/kg	0.13	6020	09/08/11 02:29	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.13	6020	09/08/11 02:29	PER	7440-28-0	
Vanadium	11.2	mg/kg	0.13	6020	09/08/11 02:29	PER	7440-62-2	
Zinc	36.0	mg/kg	0.13	6020	09/08/11 02:29	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 16:04	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 16:04	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 16:04	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 16:04	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 16:04	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 16:04	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 16:04	JANB	11096-82-5	

TCL PCB List (Column 2)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 16:04	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 16:04	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 16:04	JANB	11104-28-2	



Analytical Laboratory Report

Lab Sample ID: S49858.10 (continued)

Sample Tag: P2-SB-21(4-5')082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
TCL PCB List (Column 2) (continued)								
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 16:04	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 16:04	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 16:04	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 16:04	JANB	11096-82-5	
Organics - Semi-Volatiles								
TCL Semi-Volatile Organics								
Acenaphthene	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	09/07/11 21:21	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	108-60-1	
Chrysene	Not detected	ug/kg	80	8270C	09/07/11 21:21	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	09/07/11 21:21	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	09/07/11 21:21	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	80	8270C	09/07/11 21:21	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	50	ug/kg	40	8270C	09/07/11 21:21	PL	117-81-7	UR
Fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	87-68-3	



Analytical Laboratory Report

Lab Sample ID: S49858.10 (continued)

Sample Tag: P2-SB-21(4-5')082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 21:21	PL	88-06-2	
Organics - Volatiles								
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	7	8260B - SIM	08/31/11 17:40	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/kg	3	8260B - SIM	08/31/11 17:40	JGH	106-93-4	
1,4-Dioxane	Not detected	ug/kg	700	8260B	08/31/11 17:40	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	76-13-1	
Acetone	Not detected	ug/kg	1,300	5035/8260B	09/03/11 03:59	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	1,300	5035/8260B	09/03/11 03:59	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	1,300	5035/8260B	09/03/11 03:59	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	156-59-2	
Chloroform	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	71-55-6	



Analytical Laboratory Report

Lab Sample ID: S49858.10 (continued)

Sample Tag: P2-SB-21(4-5')082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
Cyclohexane	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	1,300	5035/8260B	09/03/11 03:59	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	1,300	5035/8260B	09/03/11 03:59	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	56-23-5	
Benzene	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	10061-01-5	
Toluene	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	300	5035/8260B	09/03/11 03:59	WAT		
o-Xylene	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	95-47-6	
Styrene	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	100	5035/8260B	09/03/11 03:59	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S49858.11
 Sample Tag: P2-SB-21(9-10')082911
 Collected Date/Time: 08/29/2011 16:45
 Matrix: Soil
 COC Reference: 16139

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/01/11 23:55	EMR		
Extraction, PCB	Completed			3550B	08/31/11 14:54	ADB		
Mercury Digestion	Completed			7471A	09/06/11 10:35	JRH		
Metal Digestion	Completed			3050B	09/08/11 10:00	PER		

Inorganics

Total Solids	83	%	1	Std M 2540 B	08/31/11 11:00	DJS		
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Metals

Antimony	Not detected	mg/kg	0.13	6020	09/08/11 02:31	PER	7440-36-0	
Arsenic	0.16	mg/kg	0.13	6020	09/08/11 02:31	PER	7440-38-2	
Barium	52.6	mg/kg	1.31	6020	09/08/11 02:31	PER	7440-39-3	
Beryllium	0.42	mg/kg	0.13	6020	09/08/11 02:31	PER	7440-41-7	
Boron	Not detected	mg/kg	5.24	6020	09/08/11 02:31	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.13	6020	09/08/11 02:31	PER	7440-43-9	
Chromium	7.09	mg/kg	0.13	6020	09/08/11 02:31	PER	7440-47-3	
Cobalt	5.79	mg/kg	0.13	6020	09/08/11 02:31	PER	7440-48-4	
Copper	6.15	mg/kg	0.13	6020	09/08/11 02:31	PER	7440-50-8	
Lead	8.74	mg/kg	0.13	6020	09/08/11 02:31	PER	7439-92-1	
Manganese	94.5	mg/kg	0.13	6020	09/08/11 02:31	PER	7439-96-5	
Mercury	0.0206	mg/kg	0.0061	7471A	09/06/11 15:19	JRT	7439-97-6	
Nickel	8.63	mg/kg	0.13	6020	09/08/11 02:31	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.13	6020	09/08/11 02:31	PER	7782-49-2	
Silver	Not detected	mg/kg	0.13	6020	09/08/11 02:31	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.13	6020	09/08/11 02:31	PER	7440-28-0	
Vanadium	6.44	mg/kg	0.13	6020	09/08/11 02:31	PER	7440-62-2	
Zinc	32.8	mg/kg	0.13	6020	09/08/11 02:31	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 16:15	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 16:15	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 16:15	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 16:15	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 16:15	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 16:15	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 16:15	JANB	11096-82-5	

TCL PCB List (Column 2)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 16:15	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 16:15	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 16:15	JANB	11104-28-2	



Analytical Laboratory Report

Lab Sample ID: S49858.11 (continued)
 Sample Tag: P2-SB-21(9-10)082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
TCL PCB List (Column 2) (continued)								
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 16:15	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 16:15	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 16:15	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 16:15	JANB	11096-82-5	
Organics - Semi-Volatiles								
TCL Semi-Volatile Organics								
Acenaphthene	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	09/07/11 21:54	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	108-60-1	
Chrysene	Not detected	ug/kg	80	8270C	09/07/11 21:54	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	09/07/11 21:54	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	09/07/11 21:54	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	80	8270C	09/07/11 21:54	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	50	ug/kg	40	8270C	09/07/11 21:54	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	87-68-3	



Analytical Laboratory Report

Lab Sample ID: S49858.11 (continued)

Sample Tag: P2-SB-21(9-10)082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 21:54	PL	88-06-2	
Organics - Volatiles								
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	4	8260B - SIM	08/31/11 17:58	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/kg	1	8260B - SIM	08/31/11 17:58	JGH	106-93-4	
1,4-Dioxane	Not detected	ug/kg	400	8260B	08/31/11 17:58	WAT	123-91-1	
TCL Volatile Organics HighLevel 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	76-13-1	
Acetone	Not detected	ug/kg	700	5035/8260B	09/03/11 04:17	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	700	5035/8260B	09/03/11 04:17	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	700	5035/8260B	09/03/11 04:17	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	71-55-6	



Analytical Laboratory Report

Lab Sample ID: S49858.11 (continued)

Sample Tag: P2-SB-21(9-10)082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
Cyclohexane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	700	5035/8260B	09/03/11 04:17	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	700	5035/8260B	09/03/11 04:17	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/03/11 04:17	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:17	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S49858.12
 Sample Tag: P2-SB-21(19-20)082911
 Collected Date/Time: 08/29/2011 16:50
 Matrix: Soil
 COC Reference: 16139

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/01/11 23:55	EMR		
Extraction, PCB	Completed			3550B	08/31/11 14:54	ADB		
Mercury Digestion	Completed			7471A	09/06/11 10:35	JRH		
Metal Digestion	Completed			3050B	09/08/11 10:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	08/31/11 11:00	DJS		
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Metals

Antimony	Not detected	mg/kg	0.12	6020	09/08/11 02:33	PER	7440-36-0
Arsenic	1.70	mg/kg	0.12	6020	09/08/11 02:33	PER	7440-38-2
Barium	39.1	mg/kg	1.17	6020	09/08/11 02:33	PER	7440-39-3
Beryllium	0.20	mg/kg	0.12	6020	09/08/11 02:33	PER	7440-41-7
Boron	Not detected	mg/kg	4.68	6020	09/08/11 02:33	PER	7440-42-8
Cadmium	Not detected	mg/kg	0.12	6020	09/08/11 02:33	PER	7440-43-9
Chromium	4.89	mg/kg	0.12	6020	09/08/11 02:33	PER	7440-47-3
Cobalt	3.88	mg/kg	0.12	6020	09/08/11 02:33	PER	7440-48-4
Copper	10.1	mg/kg	0.12	6020	09/08/11 02:33	PER	7440-50-8
Lead	4.69	mg/kg	0.12	6020	09/08/11 02:33	PER	7439-92-1
Manganese	273	mg/kg	0.12	6020	09/08/11 02:33	PER	7439-96-5
Mercury	0.0096	mg/kg	0.0057	7471A	09/06/11 15:21	JRT	7439-97-6
Nickel	11.1	mg/kg	0.12	6020	09/08/11 02:33	PER	7440-02-0
Selenium	0.24	mg/kg	0.12	6020	09/08/11 02:33	PER	7782-49-2
Silver	Not detected	mg/kg	0.12	6020	09/08/11 02:33	PER	7440-22-4
Thallium	Not detected	mg/kg	0.12	6020	09/08/11 02:33	PER	7440-28-0
Vanadium	7.21	mg/kg	0.12	6020	09/08/11 02:33	PER	7440-62-2
Zinc	16.7	mg/kg	0.12	6020	09/08/11 02:33	PER	7440-66-6

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 16:25	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 16:25	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 16:25	JANB	11104-28-2
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 16:25	JANB	11141-16-5
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 16:25	JANB	12672-29-6
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 16:25	JANB	11097-69-1
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 16:25	JANB	11096-82-5

TCL PCB List (Column 2)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 16:25	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 16:25	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 16:25	JANB	11104-28-2



Analytical Laboratory Report

Lab Sample ID: S49858.12 (continued)

Sample Tag: P2-SB-21(19-20)082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
TCL PCB List (Column 2) (continued)								
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 16:25	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 16:25	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 16:25	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 16:25	JANB	11096-82-5	
Organics - Semi-Volatiles								
TCL Semi-Volatile Organics								
Acenaphthene	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	09/07/11 22:27	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	108-60-1	
Chrysene	Not detected	ug/kg	70	8270C	09/07/11 22:27	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	09/07/11 22:27	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	09/07/11 22:27	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	70	8270C	09/07/11 22:27	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	90	ug/kg	40	8270C	09/07/11 22:27	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	87-68-3	



Analytical Laboratory Report

Lab Sample ID: S49858.12 (continued)
 Sample Tag: P2-SB-21(19-20)082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 22:27	PL	88-06-2	
Organics - Volatiles								
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	3	8260B - SIM	08/31/11 18:16	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/kg	2	8260B - SIM	08/31/11 18:16	JGH	106-93-4	X
1,4-Dioxane	Not detected	ug/kg	300	8260B	08/31/11 18:16	WAT	123-91-1	
TCL Volatile Organics HighLevel 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	76-13-1	
Acetone	Not detected	ug/kg	630	5035/8260B	09/03/11 04:35	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	630	5035/8260B	09/03/11 04:35	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	630	5035/8260B	09/03/11 04:35	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	67-66-3	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S49858.12 (continued)

Sample Tag: P2-SB-21(19-20)082911

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	630	5035/8260B	09/03/11 04:35	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	630	5035/8260B	09/03/11 04:35	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/03/11 04:35	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 04:35	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S49858.13
 Sample Tag: P2-SB-22(4-5)083011
 Collected Date/Time: 08/30/2011 09:35
 Matrix: Soil
 COC Reference: 16139

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

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

Total Solids	86	%	1	Std M 2540 B	08/31/11 11:00	DJS		
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Organics - Volatiles

1,2-Dibromo-3-chloropropane	Not detected	ug/kg	3	8260B - SIM	08/31/11 18:35	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/kg	1	8260B - SIM	08/31/11 18:35	JGH	106-93-4	
1,4-Dioxane	Not detected	ug/kg	300	8260B	08/31/11 18:35	WAT	123-91-1	

TCL Volatile Organics HighLevel 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	76-13-1	
Acetone	Not detected	ug/kg	670	5035/8260B	09/03/11 04:53	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	670	5035/8260B	09/03/11 04:53	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	670	5035/8260B	09/03/11 04:53	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	670	5035/8260B	09/03/11 04:53	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	670	5035/8260B	09/03/11 04:53	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	127-18-4	



Analytical Laboratory Report

Lab Sample ID: S49858.13 (continued)

Sample Tag: P2-SB-22(4-5')083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/03/11 04:53	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 04:53	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S49858.14
 Sample Tag: P2-SB-22(9-10)083011
 Collected Date/Time: 08/30/2011 09:30
 Matrix: Soil
 COC Reference: 16139

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	84	%	1	Std M 2540 B	08/31/11 11:00	DJS		
Organics - Volatiles								
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	3	8260B - SIM	08/31/11 18:53	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/kg	1	8260B - SIM	08/31/11 18:53	JGH	106-93-4	
1,4-Dioxane	Not detected	ug/kg	300	8260B	08/31/11 18:53	WAT	123-91-1	
TCL Volatile Organics HighLevel 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	76-13-1	
Acetone	Not detected	ug/kg	690	5035/8260B	09/03/11 05:11	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	690	5035/8260B	09/03/11 05:11	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	690	5035/8260B	09/03/11 05:11	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	690	5035/8260B	09/03/11 05:11	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	690	5035/8260B	09/03/11 05:11	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	127-18-4	



Analytical Laboratory Report

Lab Sample ID: S49858.14 (continued)

Sample Tag: P2-SB-22(9-10')083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/03/11 05:11	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:11	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S49858.15
 Sample Tag: P2-SB-34(3-4)083011
 Collected Date/Time: 08/30/2011 09:40
 Matrix: Soil
 COC Reference: 16138

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/01/11 23:55	EMR		
Extraction, PCB	Completed			3550B	08/31/11 14:54	ADB		
Mercury Digestion	Completed			7471A	09/06/11 10:35	JRH		
Metal Digestion	Completed			3050B	09/08/11 10:00	PER		

Inorganics

Total Solids	78	%	1	Std M 2540 B	08/31/11 11:00	DJS		
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Metals

Antimony	Not detected	mg/kg	0.13	6020	09/08/11 02:35	PER	7440-36-0
Arsenic	0.82	mg/kg	0.13	6020	09/08/11 02:35	PER	7440-38-2
Barium	106	mg/kg	1.32	6020	09/08/11 02:35	PER	7440-39-3
Beryllium	0.69	mg/kg	0.13	6020	09/08/11 02:35	PER	7440-41-7
Boron	Not detected	mg/kg	5.30	6020	09/08/11 02:35	PER	7440-42-8
Cadmium	0.29	mg/kg	0.13	6020	09/08/11 02:35	PER	7440-43-9
Chromium	9.24	mg/kg	0.13	6020	09/08/11 02:35	PER	7440-47-3
Cobalt	4.53	mg/kg	0.13	6020	09/08/11 02:35	PER	7440-48-4
Copper	17.7	mg/kg	0.13	6020	09/08/11 02:35	PER	7440-50-8
Lead	12.8	mg/kg	0.13	6020	09/08/11 02:35	PER	7439-92-1
Manganese	109	mg/kg	0.13	6020	09/08/11 02:35	PER	7439-96-5
Mercury	0.0536	mg/kg	0.0063	7471A	09/06/11 15:35	JRT	7439-97-6
Nickel	10.8	mg/kg	0.13	6020	09/08/11 02:35	PER	7440-02-0
Selenium	0.38	mg/kg	0.13	6020	09/08/11 02:35	PER	7782-49-2
Silver	Not detected	mg/kg	0.13	6020	09/08/11 02:35	PER	7440-22-4
Thallium	Not detected	mg/kg	0.13	6020	09/08/11 02:35	PER	7440-28-0
Vanadium	14.9	mg/kg	0.13	6020	09/08/11 02:35	PER	7440-62-2
Zinc	34.6	mg/kg	0.13	6020	09/08/11 02:35	PER	7440-66-6

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 16:36	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 16:36	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 16:36	JANB	11104-28-2
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 16:36	JANB	11141-16-5
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 16:36	JANB	12672-29-6
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 16:36	JANB	11097-69-1
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 16:36	JANB	11096-82-5

TCL PCB List (Column 2)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 16:36	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 16:36	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 16:36	JANB	11104-28-2
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 16:36	JANB	11141-16-5



Analytical Laboratory Report

Lab Sample ID: S49858.15 (continued)

Sample Tag: P2-SB-34(3-4)083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
TCL PCB List (Column 2) (continued)								
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 16:36	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 16:36	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 16:36	JANB	11096-82-5	
Organics - Semi-Volatiles								
TCL Semi-Volatile Organics								
Acenaphthene	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	90	8270C	09/07/11 23:00	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	108-60-1	
Chrysene	Not detected	ug/kg	90	8270C	09/07/11 23:00	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	90	8270C	09/07/11 23:00	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	90	8270C	09/07/11 23:00	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/kg	90	8270C	09/07/11 23:00	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	77-47-4	



Analytical Laboratory Report

Lab Sample ID: S49858.15 (continued)

Sample Tag: P2-SB-34(3-4')083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Hexachloroethane	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 23:00	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S49858.16
 Sample Tag: P2-SB-34(9-10)083011
 Collected Date/Time: 08/30/2011 09:50
 Matrix: Soil
 COC Reference: 16138

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/01/11 23:55	EMR		
Extraction, PCB	Completed			3550B	08/31/11 14:54	ADB		
Mercury Digestion	Completed			7471A	09/06/11 10:35	JRH		
Metal Digestion	Completed			3050B	09/08/11 10:00	PER		

Inorganics

Total Solids	82	%	1	Std M 2540 B	08/31/11 11:00	DJS		
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Metals

Antimony	Not detected	mg/kg	0.12	6020	09/08/11 02:38	PER	7440-36-0
Arsenic	0.77	mg/kg	0.12	6020	09/08/11 02:38	PER	7440-38-2
Barium	73.1	mg/kg	1.22	6020	09/08/11 02:38	PER	7440-39-3
Beryllium	0.49	mg/kg	0.12	6020	09/08/11 02:38	PER	7440-41-7
Boron	Not detected	mg/kg	4.90	6020	09/08/11 02:38	PER	7440-42-8
Cadmium	Not detected	mg/kg	0.12	6020	09/08/11 02:38	PER	7440-43-9
Chromium	8.18	mg/kg	0.12	6020	09/08/11 02:38	PER	7440-47-3
Cobalt	5.65	mg/kg	0.12	6020	09/08/11 02:38	PER	7440-48-4
Copper	9.85	mg/kg	0.12	6020	09/08/11 02:38	PER	7440-50-8
Lead	8.91	mg/kg	0.12	6020	09/08/11 02:38	PER	7439-92-1
Manganese	121	mg/kg	0.12	6020	09/08/11 02:38	PER	7439-96-5
Mercury	0.0221	mg/kg	0.0061	7471A	09/06/11 15:37	JRT	7439-97-6
Nickel	11.1	mg/kg	0.12	6020	09/08/11 02:38	PER	7440-02-0
Selenium	0.14	mg/kg	0.12	6020	09/08/11 02:38	PER	7782-49-2
Silver	Not detected	mg/kg	0.12	6020	09/08/11 02:38	PER	7440-22-4
Thallium	Not detected	mg/kg	0.12	6020	09/08/11 02:38	PER	7440-28-0
Vanadium	10.0	mg/kg	0.12	6020	09/08/11 02:38	PER	7440-62-2
Zinc	31.9	mg/kg	0.12	6020	09/08/11 02:38	PER	7440-66-6

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 16:46	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 16:46	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 16:46	JANB	11104-28-2
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 16:46	JANB	11141-16-5
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 16:46	JANB	12672-29-6
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 16:46	JANB	11097-69-1
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 16:46	JANB	11096-82-5

TCL PCB List (Column 2)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 16:46	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 16:46	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 16:46	JANB	11104-28-2
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 16:46	JANB	11141-16-5



Analytical Laboratory Report

Lab Sample ID: S49858.16 (continued)

Sample Tag: P2-SB-34(9-10')083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
TCL PCB List (Column 2) (continued)								
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 16:46	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 16:46	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 16:46	JANB	11096-82-5	
Organics - Semi-Volatiles								
TCL Semi-Volatile Organics								
Acenaphthene	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	09/07/11 23:32	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	108-60-1	
Chrysene	Not detected	ug/kg	80	8270C	09/07/11 23:32	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	09/07/11 23:32	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	09/07/11 23:32	PL	84-66-2	
Dimethyl phthalate	240	ug/kg	80	8270C	09/07/11 23:32	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	70	ug/kg	40	8270C	09/07/11 23:32	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	77-47-4	



Analytical Laboratory Report

Lab Sample ID: S49858.16 (continued)

Sample Tag: P2-SB-34(9-10)083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Hexachloroethane	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	09/07/11 23:32	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S49858.17
 Sample Tag: P2-SB-35(2-3')083011
 Collected Date/Time: 08/30/2011 10:00
 Matrix: Soil
 COC Reference: 16138

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/01/11 23:55	EMR		
Extraction, PCB	Completed			3550B	08/31/11 14:54	ADB		
Mercury Digestion	Completed			7471A	09/06/11 10:35	JRH		
Metal Digestion	Completed			3050B	09/08/11 10:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	08/31/11 11:00	DJS		
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Metals

Antimony	Not detected	mg/kg	0.12	6020	09/08/11 02:40	PER	7440-36-0
Arsenic	2.90	mg/kg	0.12	6020	09/08/11 02:40	PER	7440-38-2
Barium	69.4	mg/kg	1.20	6020	09/08/11 02:40	PER	7440-39-3
Beryllium	Not detected	mg/kg	0.12	6020	09/08/11 02:40	PER	7440-41-7
Boron	Not detected	mg/kg	4.82	6020	09/08/11 02:40	PER	7440-42-8
Cadmium	Not detected	mg/kg	0.12	6020	09/08/11 02:40	PER	7440-43-9
Chromium	2.18	mg/kg	0.12	6020	09/08/11 02:40	PER	7440-47-3
Cobalt	2.36	mg/kg	0.12	6020	09/08/11 02:40	PER	7440-48-4
Copper	2.78	mg/kg	0.12	6020	09/08/11 02:40	PER	7440-50-8
Lead	2.21	mg/kg	0.12	6020	09/08/11 02:40	PER	7439-92-1
Manganese	808	mg/kg	0.12	6020	09/08/11 02:40	PER	7439-96-5
Mercury	0.0083	mg/kg	0.0056	7471A	09/06/11 15:39	JRT	7439-97-6
Nickel	3.95	mg/kg	0.12	6020	09/08/11 02:40	PER	7440-02-0
Selenium	Not detected	mg/kg	0.12	6020	09/08/11 02:40	PER	7782-49-2
Silver	Not detected	mg/kg	0.12	6020	09/08/11 02:40	PER	7440-22-4
Thallium	Not detected	mg/kg	0.12	6020	09/08/11 02:40	PER	7440-28-0
Vanadium	3.57	mg/kg	0.12	6020	09/08/11 02:40	PER	7440-62-2
Zinc	12.2	mg/kg	0.12	6020	09/08/11 02:40	PER	7440-66-6

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 16:57	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 16:57	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 16:57	JANB	11104-28-2
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 16:57	JANB	11141-16-5
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 16:57	JANB	12672-29-6
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 16:57	JANB	11097-69-1
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 16:57	JANB	11096-82-5

TCL PCB List (Column 2)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 16:57	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 16:57	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 16:57	JANB	11104-28-2
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 16:57	JANB	11141-16-5



Analytical Laboratory Report

Lab Sample ID: S49858.17 (continued)

Sample Tag: P2-SB-35(2-3')083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
TCL PCB List (Column 2) (continued)								
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 16:57	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 16:57	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 16:57	JANB	11096-82-5	
Organics - Semi-Volatiles								
TCL Semi-Volatile Organics								
Acenaphthene	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	09/08/11 00:05	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	108-60-1	
Chrysene	Not detected	ug/kg	80	8270C	09/08/11 00:05	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	09/08/11 00:05	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	09/08/11 00:05	PL	84-66-2	
Dimethyl phthalate	220	ug/kg	80	8270C	09/08/11 00:05	PL	131-11-3	uB
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	77-47-4	



Analytical Laboratory Report

Lab Sample ID: S49858.17 (continued)

Sample Tag: P2-SB-35(2-3')083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Hexachloroethane	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	09/08/11 00:05	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S49858.18
 Sample Tag: P2-SB-35(9-10)083011
 Collected Date/Time: 08/30/2011 10:05
 Matrix: Soil
 COC Reference: 16138

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/01/11 23:55	EMR		
Extraction, PCB	Completed			3550B	08/31/11 14:54	ADB		
Mercury Digestion	Completed			7471A	09/06/11 10:35	JRH		
Metal Digestion	Completed			3050B	09/08/11 10:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	08/31/11 11:00	DJS		
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Metals

Antimony	Not detected	mg/kg	0.11	6020	09/08/11 02:42	PER	7440-36-0	
Arsenic	0.32	mg/kg	0.11	6020	09/08/11 02:42	PER	7440-38-2	
Barium	19.6	mg/kg	1.13	6020	09/08/11 02:42	PER	7440-39-3	
Beryllium	0.21	mg/kg	0.11	6020	09/08/11 02:42	PER	7440-41-7	
Boron	Not detected	mg/kg	4.54	6020	09/08/11 02:42	PER	7440-42-8	
Cadmium	0.20	mg/kg	0.11	6020	09/08/11 02:42	PER	7440-43-9	
Chromium	3.92	mg/kg	0.11	6020	09/08/11 02:42	PER	7440-47-3	
Cobalt	3.31	mg/kg	0.11	6020	09/08/11 02:42	PER	7440-48-4	
Copper	9.95	mg/kg	0.11	6020	09/08/11 02:42	PER	7440-50-8	
Lead	3.80	mg/kg	0.11	6020	09/08/11 02:42	PER	7439-92-1	
Manganese	231	mg/kg	0.11	6020	09/08/11 02:42	PER	7439-96-5	
Mercury	0.0089	mg/kg	0.0058	7471A	09/06/11 15:41	JRT	7439-97-6	
Nickel	8.98	mg/kg	0.11	6020	09/08/11 02:42	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.11	6020	09/08/11 02:42	PER	7782-49-2	
Silver	Not detected	mg/kg	0.11	6020	09/08/11 02:42	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.11	6020	09/08/11 02:42	PER	7440-28-0	
Vanadium	7.61	mg/kg	0.11	6020	09/08/11 02:42	PER	7440-62-2	
Zinc	14.7	mg/kg	0.11	6020	09/08/11 02:42	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 17:39	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 17:39	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 17:39	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 17:39	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 17:39	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 17:39	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 17:39	JANB	11096-82-5	

TCL PCB List (Column 2)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 17:39	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 17:39	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 17:39	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 17:39	JANB	11141-16-5	



Analytical Laboratory Report

Lab Sample ID: S49858.18 (continued)
 Sample Tag: P2-SB-35(9-10')083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
TCL PCB List (Column 2) (continued)								
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 17:39	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 17:39	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 17:39	JANB	11096-82-5	
Organics - Semi-Volatiles								
TCL Semi-Volatile Organics								
Acenaphthene	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	09/08/11 00:38	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	108-60-1	
Chrysene	Not detected	ug/kg	80	8270C	09/08/11 00:38	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	09/08/11 00:38	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	09/08/11 00:38	PL	84-66-2	
Dimethyl phthalate	240	ug/kg	80	8270C	09/08/11 00:38	PL	131-11-3	UB
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	77-47-4	



Analytical Laboratory Report

Lab Sample ID: S49858.18 (continued)

Sample Tag: P2-SB-35(9-10)083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Hexachloroethane	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	09/08/11 00:38	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S49858.19
 Sample Tag: P2-SB-33(5-6')083011
 Collected Date/Time: 08/30/2011 11:20
 Matrix: Soil
 COC Reference: 16138

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/01/11 23:55	EMR		
Extraction, PCB	Completed			3550B	08/31/11 14:54	ADB		
Mercury Digestion	Completed			7471A	09/06/11 10:35	JRH		
Metal Digestion	Completed			3050B	09/08/11 10:00	PER		

Inorganics

Total Solids	88	%	1	Std M 2540 B	08/31/11 11:00	DJS		
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Metals

Antimony	Not detected	mg/kg	0.11	6020	09/08/11 02:44	PER	7440-36-0	
Arsenic	1.86	mg/kg	0.11	6020	09/08/11 02:44	PER	7440-38-2	
Barium	44.2	mg/kg	1.10	6020	09/08/11 02:44	PER	7440-39-3	
Beryllium	0.27	mg/kg	0.11	6020	09/08/11 02:44	PER	7440-41-7	
Boron	Not detected	mg/kg	4.40	6020	09/08/11 02:44	PER	7440-42-8	
Cadmium	0.15	mg/kg	0.11	6020	09/08/11 02:44	PER	7440-43-9	
Chromium	5.36	mg/kg	0.11	6020	09/08/11 02:44	PER	7440-47-3	
Cobalt	4.15	mg/kg	0.11	6020	09/08/11 02:44	PER	7440-48-4	
Copper	8.94	mg/kg	0.11	6020	09/08/11 02:44	PER	7440-50-8	
Lead	56.6	mg/kg	0.11	6020	09/08/11 02:44	PER	7439-92-1	
Manganese	182	mg/kg	0.11	6020	09/08/11 02:44	PER	7439-96-5	
Mercury	0.0193	mg/kg	0.0056	7471A	09/06/11 15:44	JRT	7439-97-6	
Nickel	8.99	mg/kg	0.11	6020	09/08/11 02:44	PER	7440-02-0	
Selenium	0.11	mg/kg	0.11	6020	09/08/11 02:44	PER	7782-49-2	
Silver	Not detected	mg/kg	0.11	6020	09/08/11 02:44	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.11	6020	09/08/11 02:44	PER	7440-28-0	
Vanadium	8.05	mg/kg	0.11	6020	09/08/11 02:44	PER	7440-62-2	
Zinc	24.3	mg/kg	0.11	6020	09/08/11 02:44	PER	7440-66-6	

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 17:49	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 17:49	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 17:49	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 17:49	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 17:49	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 17:49	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 17:49	JANB	11096-82-5	

TCL PCB List (Column 2)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 17:49	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 17:49	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 17:49	JANB	11104-28-2	



Analytical Laboratory Report

Lab Sample ID: S49858.19 (continued)
 Sample Tag: P2-SB-33(5-6')083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
TCL PCB List (Column 2) (continued)								
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 17:49	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 17:49	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 17:49	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 17:49	JANB	11096-82-5	
Organics - Semi-Volatiles								
TCL Semi-Volatile Organics								
Acenaphthene	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	09/08/11 01:10	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	100-52-7	
Benzo(a)anthracene	130	ug/kg	40	8270C	09/08/11 01:10	PL	56-55-3	
Benzo(a)pyrene	100	ug/kg	40	8270C	09/08/11 01:10	PL	50-32-8	
Benzo(b)fluoranthene	110	ug/kg	40	8270C	09/08/11 01:10	PL	205-99-2	
Benzo(ghi)perylene	50	ug/kg	40	8270C	09/08/11 01:10	PL	191-24-2	
Benzo(k)fluoranthene	120	ug/kg	40	8270C	09/08/11 01:10	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	108-60-1	
Chrysene	190	ug/kg	80	8270C	09/08/11 01:10	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	09/08/11 01:10	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	09/08/11 01:10	PL	84-66-2	
Dimethyl phthalate	170	ug/kg	UB 80	8270C	09/08/11 01:10	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	117-81-7	
Fluoranthene	250	ug/kg	J 40	8270C	09/08/11 01:10	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	87-68-3	



Analytical Laboratory Report

Lab Sample ID: S49858.19 (continued)

Sample Tag: P2-SB-33(5-6')083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	50	ug/kg	40	8270C	09/08/11 01:10	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	98-95-3	
di-n-Octyl phtalate	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	108-95-2	
Pyrene	210	ug/kg	40	8270C	09/08/11 01:10	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	09/08/11 01:10	PL	88-06-2	
Organics - Volatiles								
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	3	8260B - SIM	08/31/11 19:11	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/kg	1	8260B - SIM	08/31/11 19:11	JGH	106-93-4	
1,4-Dioxane	Not detected	ug/kg	300	8260B	08/31/11 19:11	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	76-13-1	
Acetone	Not detected	ug/kg	650	5035/8260B	09/03/11 05:29	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	650	5035/8260B	09/03/11 05:29	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	650	5035/8260B	09/03/11 05:29	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	71-55-6	



Analytical Laboratory Report

Lab Sample ID: S49858.19 (continued)

Sample Tag: P2-SB-33(5-6')083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	650	5035/8260B	09/03/11 05:29	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	650	5035/8260B	09/03/11 05:29	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/03/11 05:29	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 05:29	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S49858.20
 Sample Tag: P2-SB-33(9-10)083011
 Collected Date/Time: 08/30/2011 11:30
 Matrix: Soil
 COC Reference: 16138

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/01/11 23:55	EMR		
Extraction, PCB	Completed			3550B	08/31/11 14:54	ADB		
Mercury Digestion	Completed			7471A	09/06/11 10:35	JRH		
Metal Digestion	Completed			3050B	09/08/11 10:00	PER		

Inorganics

Total Solids	81	%	1	Std M 2540 B	08/31/11 11:00	DJS		
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Metals

Antimony	Not detected	mg/kg	0.13	6020	09/08/11 02:47	PER	7440-36-0
Arsenic	0.49	mg/kg	0.13	6020	09/08/11 02:47	PER	7440-38-2
Barium	43.7	mg/kg	1.31	6020	09/08/11 02:47	PER	7440-39-3
Beryllium	0.30	mg/kg	0.13	6020	09/08/11 02:47	PER	7440-41-7
Boron	Not detected	mg/kg	5.24	6020	09/08/11 02:47	PER	7440-42-8
Cadmium	0.16	mg/kg	0.13	6020	09/08/11 02:47	PER	7440-43-9
Chromium	5.47	mg/kg	0.13	6020	09/08/11 02:47	PER	7440-47-3
Cobalt	2.44	mg/kg	0.13	6020	09/08/11 02:47	PER	7440-48-4
Copper	13.8	mg/kg	0.13	6020	09/08/11 02:47	PER	7440-50-8
Lead	7.79	mg/kg	0.13	6020	09/08/11 02:47	PER	7439-92-1
Manganese	44.1	mg/kg	0.13	6020	09/08/11 02:47	PER	7439-96-5
Mercury	0.0234	mg/kg	0.0062	7471A	09/06/11 15:46	JRT	7439-97-6
Nickel	17.9	mg/kg	0.13	6020	09/08/11 02:47	PER	7440-02-0
Selenium	Not detected	mg/kg	0.13	6020	09/08/11 02:47	PER	7782-49-2
Silver	Not detected	mg/kg	0.13	6020	09/08/11 02:47	PER	7440-22-4
Thallium	Not detected	mg/kg	0.13	6020	09/08/11 02:47	PER	7440-28-0
Vanadium	8.43	mg/kg	0.13	6020	09/08/11 02:47	PER	7440-62-2
Zinc	13.9	mg/kg	0.13	6020	09/08/11 02:47	PER	7440-66-6

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 18:00	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 18:00	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 18:00	JANB	11104-28-2
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 18:00	JANB	11141-16-5
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 18:00	JANB	12672-29-6
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 18:00	JANB	11097-69-1
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 18:00	JANB	11096-82-5

TCL PCB List (Column 2)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 18:00	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 18:00	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 18:00	JANB	11104-28-2



Analytical Laboratory Report

Lab Sample ID: S49858.20 (continued)

Sample Tag: P2-SB-33(9-10)083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
TCL PCB List (Column 2) (continued)								
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 18:00	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 18:00	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 18:00	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 18:00	JANB	11096-82-5	
Organics - Semi-Volatiles								
TCL Semi-Volatile Organics								
Acenaphthene	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	09/08/11 01:43	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	108-60-1	
Chrysene	Not detected	ug/kg	80	8270C	09/08/11 01:43	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	09/08/11 01:43	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	09/08/11 01:43	PL	84-66-2	
Dimethyl phthalate	280	ug/kg	80	8270C	09/08/11 01:43	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	87-68-3	



Analytical Laboratory Report

Lab Sample ID: S49858.20 (continued)

Sample Tag: P2-SB-33(9-10)083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	09/08/11 01:43	PL	88-06-2	
Organics - Volatiles								
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	4	8260B - SIM	08/31/11 19:29	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/kg	1	8260B - SIM	08/31/11 19:29	JGH	106-93-4	
1,4-Dioxane	Not detected	ug/kg	400	8260B	08/31/11 19:29	WAT	123-91-1	
TCL Volatile Organics HighLevel 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	76-13-1	
Acetone	Not detected	ug/kg	750	5035/8260B	09/03/11 05:47	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	750	5035/8260B	09/03/11 05:47	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	750	5035/8260B	09/03/11 05:47	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	71-55-6	



Analytical Laboratory Report

Lab Sample ID: S49858.20 (continued)

Sample Tag: P2-SB-33(9-10)083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
Cyclohexane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	750	5035/8260B	09/03/11 05:47	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	750	5035/8260B	09/03/11 05:47	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/03/11 05:47	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 05:47	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S49858.21
 Sample Tag: Duplicate 2-P2
 Collected Date/Time: 08/30/2011 11:25
 Matrix: Soil
 COC Reference: 16138

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/01/11 23:55	EMR		
Extraction, PCB	Completed			3550B	08/31/11 14:54	ADB		
Mercury Digestion	Completed			7471A	09/06/11 10:35	JRH		
Metal Digestion	Completed			3050B	09/08/11 10:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	08/31/11 11:00	DJS		
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Metals

Antimony	Not detected	mg/kg	0.12	6020	09/08/11 02:49	PER	7440-36-0
Arsenic	3.06	mg/kg	0.12	6020	09/08/11 02:49	PER	7440-38-2
Barium	56.5	mg/kg	1.22	6020	09/08/11 02:49	PER	7440-39-3
Beryllium	0.30	mg/kg	0.12	6020	09/08/11 02:49	PER	7440-41-7
Boron	Not detected	mg/kg	4.88	6020	09/08/11 02:49	PER	7440-42-8
Cadmium	0.20	mg/kg	0.12	6020	09/08/11 02:49	PER	7440-43-9
Chromium	9.81	mg/kg	0.12	6020	09/08/11 02:49	PER	7440-47-3
Cobalt	5.03	mg/kg	0.12	6020	09/08/11 02:49	PER	7440-48-4
Copper	14.0	mg/kg	0.12	6020	09/08/11 02:49	PER	7440-50-8
Lead	27.0	mg/kg	0.12	6020	09/08/11 02:49	PER	7439-92-1
Manganese	416	mg/kg	0.12	6020	09/08/11 02:49	PER	7439-96-5
Mercury	0.0215	mg/kg	0.0058	7471A	09/06/11 15:48	JRT	7439-97-6
Nickel	13.3	mg/kg	0.12	6020	09/08/11 02:49	PER	7440-02-0
Selenium	0.14	mg/kg	0.12	6020	09/08/11 02:49	PER	7782-49-2
Silver	Not detected	mg/kg	0.12	6020	09/08/11 02:49	PER	7440-22-4
Thallium	Not detected	mg/kg	0.12	6020	09/08/11 02:49	PER	7440-28-0
Vanadium	9.64	mg/kg	0.12	6020	09/08/11 02:49	PER	7440-62-2
Zinc	39.4	mg/kg	0.12	6020	09/08/11 02:49	PER	7440-66-6

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 18:10	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 18:10	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 18:10	JANB	11104-28-2
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 18:10	JANB	11141-16-5
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 18:10	JANB	12672-29-6
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 18:10	JANB	11097-69-1
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 18:10	JANB	11096-82-5

TCL PCB List (Column 2)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 18:10	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 18:10	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 18:10	JANB	11104-28-2



Analytical Laboratory Report

Lab Sample ID: S49858.21 (continued)

Sample Tag: Duplicate 2-P2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
TCL PCB List (Column 2) (continued)								
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 18:10	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 18:10	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 18:10	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 18:10	JANB	11096-82-5	
Organics - Semi-Volatiles								
TCL Semi-Volatile Organics								
Acenaphthene	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	09/08/11 02:16	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	100-52-7	
Benzo(a)anthracene	50	ug/kg	40	8270C	09/08/11 02:16	PL	56-55-3	
Benzo(a)pyrene	60	ug/kg	40	8270C	09/08/11 02:16	PL	50-32-8	
Benzo(b)fluoranthene	60	ug/kg	40	8270C	09/08/11 02:16	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	191-24-2	
Benzo(k)fluoranthene	60	ug/kg	40	8270C	09/08/11 02:16	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	108-60-1	
Chrysene	Not detected	ug/kg	80	8270C	09/08/11 02:16	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	09/08/11 02:16	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	09/08/11 02:16	PL	84-66-2	
Dimethyl phthalate	300	ug/kg	80	8270C	09/08/11 02:16	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	50	ug/kg	40	8270C	09/08/11 02:16	PL	117-81-7	
Fluoranthene	60	ug/kg	40	8270C	09/08/11 02:16	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	87-68-3	



Analytical Laboratory Report

Lab Sample ID: S49858.21 (continued)

Sample Tag: Duplicate 2-P2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	108-95-2	
Pyrene	60	ug/kg	40	8270C	09/08/11 02:16	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	09/08/11 02:16	PL	88-06-2	
Organics - Volatiles								
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	3	8260B - SIM	08/31/11 19:47	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/kg	1	8260B - SIM	08/31/11 19:47	JGH	106-93-4	
1,4-Dioxane	Not detected	ug/kg	300	8260B	08/31/11 19:47	WAT	123-91-1	
TCL Volatile Organics HighLevel 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	76-13-1	
Acetone	Not detected	ug/kg	670	5035/8260B	09/03/11 06:05	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	670	5035/8260B	09/03/11 06:05	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	670	5035/8260B	09/03/11 06:05	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	71-55-6	



Analytical Laboratory Report

Lab Sample ID: S49858.21 (continued)

Sample Tag: Duplicate 2-P2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
Cyclohexane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	670	5035/8260B	09/03/11 06:05	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	670	5035/8260B	09/03/11 06:05	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/03/11 06:05	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:05	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S49858.22
 Sample Tag: P2-SB-32(2-3')083011
 Collected Date/Time: 08/30/2011 11:50
 Matrix: Soil
 COC Reference: 16138

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/01/11 23:55	EMR		
Mercury Digestion	Completed			7471A	09/06/11 10:35	JRH		
Metal Digestion	Completed			3050B	09/08/11 11:00	PER		

Inorganics

Total Solids	89	%	1	Std M 2540 B	08/31/11 11:00	DJS		
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Metals

Antimony	Not detected	mg/kg	0.12	6020	09/08/11 03:04	PER	7440-36-0
Arsenic	0.12	mg/kg	0.12	6020	09/08/11 03:04	PER	7440-38-2
Barium	14.3	mg/kg	1.20	6020	09/08/11 03:04	PER	7440-39-3
Beryllium	Not detected	mg/kg	0.12	6020	09/08/11 03:04	PER	7440-41-7
Boron	Not detected	mg/kg	4.82	6020	09/08/11 03:04	PER	7440-42-8
Cadmium	Not detected	mg/kg	0.12	6020	09/08/11 03:04	PER	7440-43-9
Chromium	2.03	mg/kg	0.12	6020	09/08/11 03:04	PER	7440-47-3
Cobalt	0.52	mg/kg	0.12	6020	09/08/11 03:04	PER	7440-48-4
Copper	0.96	mg/kg	0.12	6020	09/08/11 03:04	PER	7440-50-8
Lead	2.11	mg/kg	0.12	6020	09/08/11 03:04	PER	7439-92-1
Manganese	10.4	mg/kg	0.12	6020	09/08/11 03:04	PER	7439-96-5
Mercury	0.0169	mg/kg	0.0056	7471A	09/06/11 15:50	JRT	7439-97-6
Nickel	1.23	mg/kg	0.12	6020	09/08/11 03:04	PER	7440-02-0
Selenium	0.14	mg/kg	0.12	6020	09/08/11 03:04	PER	7782-49-2
Silver	Not detected	mg/kg	0.12	6020	09/08/11 03:04	PER	7440-22-4
Thallium	Not detected	mg/kg	0.12	6020	09/08/11 03:04	PER	7440-28-0
Vanadium	1.83	mg/kg	0.12	6020	09/08/11 03:04	PER	7440-62-2
Zinc	6.10	mg/kg	0.12	6020	09/08/11 03:04	PER	7440-66-6

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	83-32-9
Acenaphthylene	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	208-96-8
Acetophenone	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	98-86-2
Anthracene	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	120-12-7
Atrazine	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	1912-24-9
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	92-52-4
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	101-55-3
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	09/08/11 02:49	PL	84-74-2
Benzaldehyde	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	100-52-7
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	56-55-3
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	50-32-8
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	205-99-2
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	191-24-2
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	207-08-9



Analytical Laboratory Report

Lab Sample ID: S49858.22 (continued)
 Sample Tag: P2-SB-32(2-3)083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	108-60-1	
Chrysene	Not detected	ug/kg	70	8270C	09/08/11 02:49	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	09/08/11 02:49	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	09/08/11 02:49	PL	84-66-2	
Dimethyl phthalate	280	ug/kg	UB 70	8270C	09/08/11 02:49	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	40	ug/kg	UB 40	8270C	09/08/11 02:49	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	129-00-0	



Analytical Laboratory Report

Lab Sample ID: S49858.22 (continued)

Sample Tag: P2-SB-32(2-3')083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	09/08/11 02:49	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S49858.23
 Sample Tag: P2-SB-32(9-10)083011
 Collected Date/Time: 08/30/2011 11:55
 Matrix: Soil
 COC Reference: 16138

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/01/11 23:55	EMR		
Mercury Digestion	Completed			7471A	09/06/11 10:35	JRH		
Metal Digestion	Completed			3050B	09/08/11 11:00	PER		

Inorganics

Total Solids	96	%	1	Std M 2540 B	08/31/11 11:00	DJS		
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Metals

Antimony	Not detected	mg/kg	0.11	6020	09/08/11 03:08	PER	7440-36-0	
Arsenic	Not detected	mg/kg	0.11	6020	09/08/11 03:08	PER	7440-38-2	
Barium	3.33	mg/kg	1.04	6020	09/08/11 03:08	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.11	6020	09/08/11 03:08	PER	7440-41-7	
Boron	Not detected	mg/kg	4.18	6020	09/08/11 03:08	PER	7440-42-8	
Cadmium	Not detected	mg/kg	0.11	6020	09/08/11 03:08	PER	7440-43-9	
Chromium	0.57	mg/kg	0.11	6020	09/08/11 03:08	PER	7440-47-3	
Cobalt	0.22	mg/kg	0.11	6020	09/08/11 03:08	PER	7440-48-4	
Copper	0.29	mg/kg	0.11	6020	09/08/11 03:08	PER	7440-50-8	
Lead	0.81	mg/kg	0.11	6020	09/08/11 03:08	PER	7439-92-1	
Manganese	2.74	mg/kg	0.11	6020	09/08/11 03:08	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.0053	7471A	09/06/11 15:53	JRT	7439-97-6	
Nickel	0.61	mg/kg	0.11	6020	09/08/11 03:08	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.11	6020	09/08/11 03:08	PER	7782-49-2	
Silver	Not detected	mg/kg	0.11	6020	09/08/11 03:08	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.11	6020	09/08/11 03:08	PER	7440-28-0	
Vanadium	0.57	mg/kg	0.11	6020	09/08/11 03:08	PER	7440-62-2	
Zinc	3.32	mg/kg	0.11	6020	09/08/11 03:08	PER	7440-66-6	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	208-96-8	
Acetophenone	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	98-86-2	
Anthracene	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	120-12-7	
Atrazine	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	09/08/11 03:22	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	207-08-9	



Analytical Laboratory Report

Lab Sample ID: S49858.23 (continued)
Sample Tag: P2-SB-32(9-10')083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Butyl benzyl phthalate	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	105-60-2	
Carbazole	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	108-60-1	
Chrysene	Not detected	ug/kg	70	8270C	09/08/11 03:22	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	09/08/11 03:22	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	70	8270C	09/08/11 03:22	PL	84-66-2	
Dimethyl phthalate	160	ug/kg <i>uB</i>	70	8270C	09/08/11 03:22	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	80	ug/kg <i>uB</i>	30	8270C	09/08/11 03:22	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	206-44-0	
Fluorene	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	193-39-5	
Isophorone	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	86-30-6	
Naphthalene	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	85-01-8	
Phenol	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	108-95-2	
Pyrene	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	129-00-0	



Analytical Laboratory Report

Lab Sample ID: S49858.23 (continued)

Sample Tag: P2-SB-32(9-10')083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
2,4,5-Trichlorophenol	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	30	8270C	09/08/11 03:22	PL	88-06-2	



Analytical Laboratory Report

Lab Sample ID: S49858.24
 Sample Tag: P2-SB-31(1-2')083011
 Collected Date/Time: 08/30/2011 13:40
 Matrix: Soil
 COC Reference: 16138

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/01/11 23:55	EMR		
Extraction, PCB	Completed			3550B	08/31/11 14:54	ADB		
Mercury Digestion	Completed			7471A	09/06/11 10:35	JRH		
Metal Digestion	Completed			3050B	09/08/11 11:00	PER		

Inorganics

Total Solids	82	%	1	Std M 2540 B	08/31/11 11:00	DJS		
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Metals

Antimony	Not detected	mg/kg	0.12	6020	09/08/11 03:21	PER	7440-36-0
Arsenic	2.02	mg/kg	0.12	6020	09/08/11 03:21	PER	7440-38-2
Barium	117	mg/kg	1.25	6020	09/08/11 03:21	PER	7440-39-3
Beryllium	0.73	mg/kg	0.12	6020	09/08/11 03:21	PER	7440-41-7
Boron	Not detected	mg/kg	5.0	6020	09/08/11 03:21	PER	7440-42-8
Cadmium	0.33	mg/kg	0.12	6020	09/08/11 03:21	PER	7440-43-9
Chromium	14.5	mg/kg	0.12	6020	09/08/11 03:21	PER	7440-47-3
Cobalt	10.3	mg/kg	0.12	6020	09/08/11 03:21	PER	7440-48-4
Copper	12.6	mg/kg	0.12	6020	09/08/11 03:21	PER	7440-50-8
Lead	14.3	mg/kg	0.12	6020	09/08/11 03:21	PER	7439-92-1
Manganese	696	mg/kg	0.12	6020	09/08/11 03:21	PER	7439-96-5
Mercury	0.0352	mg/kg	0.0061	7471A	09/06/11 15:55	JRT	7439-97-6
Nickel	18.9	mg/kg	0.12	6020	09/08/11 03:21	PER	7440-02-0
Selenium	0.24	mg/kg	0.12	6020	09/08/11 03:21	PER	7782-49-2
Silver	Not detected	mg/kg	0.12	6020	09/08/11 03:21	PER	7440-22-4
Thallium	Not detected	mg/kg	0.12	6020	09/08/11 03:21	PER	7440-28-0
Vanadium	17.9	mg/kg	0.12	6020	09/08/11 03:21	PER	7440-62-2
Zinc	49.1	mg/kg	0.12	6020	09/08/11 03:21	PER	7440-66-6

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 18:21	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 18:21	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 18:21	JANB	11104-28-2
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 18:21	JANB	11141-16-5
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 18:21	JANB	12672-29-6
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 18:21	JANB	11097-69-1
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 18:21	JANB	11096-82-5

TCL PCB List (Column 2)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 18:21	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 18:21	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 18:21	JANB	11104-28-2



Analytical Laboratory Report

Lab Sample ID: S49858.24 (continued)
 Sample Tag: P2-SB-31(1-2')083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
TCL PCB List (Column 2) (continued)								
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 18:21	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 18:21	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 18:21	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 18:21	JANB	11096-82-5	
Organics - Semi-Volatiles								
TCL Semi-Volatile Organics								
Acenaphthene	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	09/09/11 15:08	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	100-52-7	
Benzo(a)anthracene	50	ug/kg	40	8270C	09/09/11 15:08	PL	56-55-3	
Benzo(a)pyrene	50	ug/kg	40	8270C	09/09/11 15:08	PL	50-32-8	
Benzo(b)fluoranthene	60	ug/kg	40	8270C	09/09/11 15:08	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	191-24-2	
Benzo(k)fluoranthene	50	ug/kg	40	8270C	09/09/11 15:08	PL	207-08-9	
Butyl benzyl phthalate	50	ug/kg	40	8270C	09/09/11 15:08	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	108-60-1	
Chrysene	Not detected	ug/kg	80	8270C	09/09/11 15:08	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	09/09/11 15:08	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	09/09/11 15:08	PL	84-66-2	
Dimethyl phthalate	200	ug/kg	80	8270C	09/09/11 15:08	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	120	ug/kg	40	8270C	09/09/11 15:08	PL	117-81-7	
Fluoranthene	50	ug/kg	40	8270C	09/09/11 15:08	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	118-74-1	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S49858.24 (continued)

Sample Tag: P2-SB-31(1-2)083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	40	ug/kg	40	8270C	09/09/11 15:08	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	98-95-3	
di-n-Octyl phthalate	50	ug/kg	40	8270C	09/09/11 15:08	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	108-95-2	
Pyrene	50	ug/kg	40	8270C	09/09/11 15:08	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	09/09/11 15:08	PL	88-06-2	
Organics - Volatiles								
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	4	8260B - SIM	08/31/11 20:06	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/kg	1	8260B - SIM	08/31/11 20:06	JGH	106-93-4	
1,4-Dioxane	Not detected	ug/kg	400	8260B	08/31/11 20:06	WAT	123-91-1	
TCL Volatile Organics HighLevel 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	76-13-1	
Acetone	Not detected	ug/kg	710	5035/8260B	09/03/11 06:23	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	710	5035/8260B	09/03/11 06:23	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	710	5035/8260B	09/03/11 06:23	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	67-66-3	



Analytical Laboratory Report

Lab Sample ID: S49858.24 (continued)

Sample Tag: P2-SB-31(1-2')083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	710	5035/8260B	09/03/11 06:23	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	710	5035/8260B	09/03/11 06:23	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/03/11 06:23	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:23	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S49858.25
 Sample Tag: P2-SB-31(9-10)083011
 Collected Date/Time: 08/30/2011 13:45
 Matrix: Soil
 COC Reference: 16138

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/01/11 23:55	EMR		
Extraction, PCB	Completed			3550B	08/31/11 15:01	ADB		
Mercury Digestion	Completed			7471A	09/06/11 13:25	JRH		
Metal Digestion	Completed			3050B	09/08/11 11:00	PER		

Inorganics

Total Solids	87	%	1	Std M 2540 B	08/31/11 11:00	DJS		
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Metals

Antimony	Not detected	mg/kg	0.13	6020	09/08/11 03:24	PER	7440-36-0
Arsenic	1.04	mg/kg	0.13	6020	09/08/11 03:24	PER	7440-38-2
Barium	55.1	mg/kg	1.30	6020	09/08/11 03:24	PER	7440-39-3
Beryllium	0.31	mg/kg	0.13	6020	09/08/11 03:24	PER	7440-41-7
Boron	Not detected	mg/kg	5.20	6020	09/08/11 03:24	PER	7440-42-8
Cadmium	0.15	mg/kg	0.13	6020	09/08/11 03:24	PER	7440-43-9
Chromium	7.72	mg/kg	0.13	6020	09/08/11 03:24	PER	7440-47-3
Cobalt	7.29	mg/kg	0.13	6020	09/08/11 03:24	PER	7440-48-4
Copper	6.47	mg/kg	0.13	6020	09/08/11 03:24	PER	7440-50-8
Lead	5.53	mg/kg	0.13	6020	09/08/11 03:24	PER	7439-92-1
Manganese	375	mg/kg	0.13	6020	09/08/11 03:24	PER	7439-96-5
Mercury	0.0127	mg/kg	0.0057	7471A	09/06/11 16:06	JRT	7439-97-6
Nickel	16.2	mg/kg	0.13	6020	09/08/11 03:24	PER	7440-02-0
Selenium	Not detected	mg/kg	0.13	6020	09/08/11 03:24	PER	7782-49-2
Silver	Not detected	mg/kg	0.13	6020	09/08/11 03:24	PER	7440-22-4
Thallium	Not detected	mg/kg	0.13	6020	09/08/11 03:24	PER	7440-28-0
Vanadium	10.8	mg/kg	0.13	6020	09/08/11 03:24	PER	7440-62-2
Zinc	21.0	mg/kg	0.13	6020	09/08/11 03:24	PER	7440-66-6

Organics - PCBs/Pesticides

TCL PCB List (Column 1)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 18:31	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 18:31	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 18:31	JANB	11104-28-2
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 18:31	JANB	11141-16-5
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 18:31	JANB	12672-29-6
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 18:31	JANB	11097-69-1
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 18:31	JANB	11096-82-5

TCL PCB List (Column 2)

PCB-1016	Not detected	ug/kg	3	8082	08/31/11 18:31	JANB	12674-11-2
PCB-1242	Not detected	ug/kg	3	8082	08/31/11 18:31	JANB	53469-21-9
PCB-1221	Not detected	ug/kg	3	8082	08/31/11 18:31	JANB	11104-28-2



Analytical Laboratory Report

Lab Sample ID: S49858.25 (continued)
 Sample Tag: P2-SB-31(9-10)083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
TCL PCB List (Column 2) (continued)								
PCB-1232	Not detected	ug/kg	3	8082	08/31/11 18:31	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	3	8082	08/31/11 18:31	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	3	8082	08/31/11 18:31	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	3	8082	08/31/11 18:31	JANB	11096-82-5	
Organics - Semi-Volatiles								
TCL Semi-Volatile Organics								
Acenaphthene	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	208-96-8	
Acetophenone	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	98-86-2	
Anthracene	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	120-12-7	
Atrazine	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	1912-24-9	
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	92-52-4	
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	101-55-3	
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	09/09/11 15:42	PL	84-74-2	
Benzaldehyde	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	100-52-7	
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	108-60-1	
Chrysene	Not detected	ug/kg	80	8270C	09/09/11 15:42	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	09/09/11 15:42	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	09/09/11 15:42	PL	84-66-2	
Dimethyl phthalate	290	ug/kg	80	8270C	09/09/11 15:42	PL	131-11-3	
bis(2-Ethylhexyl)phthalate	40	ug/kg	40	8270C	09/09/11 15:42	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	118-74-1	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S49858.25 (continued)

Sample Tag: P2-SB-31(9-10)083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	85-01-8	
Phenol	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	09/09/11 15:42	PL	88-06-2	
Organics - Volatiles								
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	3	8260B - SIM	08/31/11 20:24	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/kg	1	8260B - SIM	08/31/11 20:24	JGH	106-93-4	
1,4-Dioxane	Not detected	ug/kg	300	8260B	08/31/11 20:24	WAT	123-91-1	
TCL Volatile Organics HighLevl 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	76-13-1	
Acetone	Not detected	ug/kg	660	5035/8260B	09/03/11 06:41	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	660	5035/8260B	09/03/11 06:41	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	660	5035/8260B	09/03/11 06:41	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	156-59-2	
Chloroform	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	67-66-3	



Analytical Laboratory Report

Lab Sample ID: S49858.25 (continued)

Sample Tag: P2-SB-31(9-10)083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
1,1,1-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	660	5035/8260B	09/03/11 06:41	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	660	5035/8260B	09/03/11 06:41	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	79-34-5	
Ethylbenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/03/11 06:41	WAT		
o-Xylene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	98-82-8	
Bromoform	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	70	5035/8260B	09/03/11 06:41	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S49858.26
 Sample Tag: P2-SB-36(5-6)083011
 Collected Date/Time: 08/30/2011 14:50
 Matrix: Soil
 COC Reference: 16138

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/01/11 23:55	EMR		
Mercury Digestion	Completed			7471A	09/06/11 13:25	JRH		
Metal Digestion	Completed			3050B	09/08/11 11:00	PER		

Inorganics

Total Solids	79	%	1	Std M 2540 B	08/31/11 11:00	DJS		
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Metals

Antimony	Not detected	mg/kg	0.14	6020	09/08/11 03:26	PER	7440-36-0
Arsenic	2.16	mg/kg	0.14	6020	09/08/11 03:26	PER	7440-38-2
Barium	59.2	mg/kg	1.37	6020	09/08/11 03:26	PER	7440-39-3
Beryllium	0.43	mg/kg	0.14	6020	09/08/11 03:26	PER	7440-41-7
Boron	Not detected	mg/kg	5.48	6020	09/08/11 03:26	PER	7440-42-8
Cadmium	Not detected	mg/kg	0.14	6020	09/08/11 03:26	PER	7440-43-9
Chromium	11.4	mg/kg	0.14	6020	09/08/11 03:26	PER	7440-47-3
Cobalt	5.55	mg/kg	0.14	6020	09/08/11 03:26	PER	7440-48-4
Copper	11.7	mg/kg	0.14	6020	09/08/11 03:26	PER	7440-50-8
Lead	6.39	mg/kg	0.14	6020	09/08/11 03:26	PER	7439-92-1
Manganese	333	mg/kg	0.14	6020	09/08/11 03:26	PER	7439-96-5
Mercury	0.0196	mg/kg	0.0062	7471A	09/06/11 16:09	JRT	7439-97-6
Nickel	18.2	mg/kg	0.14	6020	09/08/11 03:26	PER	7440-02-0
Selenium	Not detected	mg/kg	0.14	6020	09/08/11 03:26	PER	7782-49-2
Silver	Not detected	mg/kg	0.14	6020	09/08/11 03:26	PER	7440-22-4
Thallium	Not detected	mg/kg	0.14	6020	09/08/11 03:26	PER	7440-28-0
Vanadium	14.7	mg/kg	0.14	6020	09/08/11 03:26	PER	7440-62-2
Zinc	26.7	mg/kg	0.14	6020	09/08/11 03:26	PER	7440-66-6

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	83-32-9
Acenaphthylene	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	208-96-8
Acetophenone	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	98-86-2
Anthracene	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	120-12-7
Atrazine	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	1912-24-9
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	92-52-4
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	101-55-3
di-n-Butyl phthalate	Not detected	ug/kg	80	8270C	09/09/11 16:16	PL	84-74-2
Benzaldehyde	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	100-52-7
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	56-55-3
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	50-32-8
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	205-99-2
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	191-24-2



Analytical Laboratory Report

Lab Sample ID: S49858.26 (continued)

Sample Tag: P2-SB-36(5-6)083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	207-08-9	
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	91-58-7	
2-Chlorophenol	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	95-57-8	
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	59-50-7	
4-Chloroaniline	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	7005-72-3	
Caprolactam	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	105-60-2	
Carbazole	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	86-74-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	108-60-1	
Chrysene	Not detected	ug/kg	80	8270C	09/09/11 16:16	PL	218-01-9	
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	120-83-2	
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	606-20-2	
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	534-52-1	
Dibenzo(ah)anthracene	Not detected	ug/kg	80	8270C	09/09/11 16:16	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	132-64-9	
Diethyl phthalate	Not detected	ug/kg	80	8270C	09/09/11 16:16	PL	84-66-2	
Dimethyl phthalate	360	ug/kg	UB	8270C	09/09/11 16:16	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	60	ug/kg	UB	8270C	09/09/11 16:16	PL	117-81-7	
Fluoranthene	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	206-44-0	
Fluorene	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	193-39-5	
Isophorone	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	91-57-6	
2-Methylphenol	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	95-48-7	
3-, 4-Methylphenol	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	3/4-Cresol	
2-Nitroaniline	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	88-74-4	
2-Nitrophenol	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	88-75-5	
3-Nitroaniline	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	100-01-6	
4-Nitrophenol	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	621-64-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	86-30-6	
Naphthalene	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	91-20-3	
Nitrobenzene	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	98-95-3	
di-n-Octyl phthalate	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	117-84-0	
Pentachlorophenol	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	85-01-8	

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S49858.26 (continued)

Sample Tag: P2-SB-36(5-6)083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	09/09/11 16:16	PL	88-06-2	
Organics - Volatiles								
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	4	8260B - SIM	08/31/11 20:42	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/kg	2	8260B - SIM	08/31/11 20:42	JGH	106-93-4	
1,4-Dioxane	Not detected	ug/kg	400	8260B	08/31/11 20:42	WAT	123-91-1	
TCL Volatile Organics HighLevel 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	76-13-1	
Acetone	Not detected	ug/kg	750	5035/8260B	09/03/11 06:59	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	750	5035/8260B	09/03/11 06:59	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	750	5035/8260B	09/03/11 06:59	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	156-59-2	
Chloroform	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	750	5035/8260B	09/03/11 06:59	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	750	5035/8260B	09/03/11 06:59	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	56-23-5	
Benzene	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	10061-01-5	
Toluene	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S49858.26 (continued)

Sample Tag: P2-SB-36(5-6)083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	200	5035/8260B	09/03/11 06:59	WAT		
o-Xylene	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	95-47-6	
Styrene	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	98-82-8	
Bromoform	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	80	5035/8260B	09/03/11 06:59	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S49858.27
 Sample Tag: P2-SB-36(19-20)083011
 Collected Date/Time: 08/30/2011 14:55
 Matrix: Soil
 COC Reference: 16138

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR
1	40ml Glass	MeOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	09/01/11 23:55	EMR		
Mercury Digestion	Completed			7471A	09/06/11 13:25	JRH		
Metal Digestion	Completed			3050B	09/08/11 11:00	PER		

Inorganics

Total Solids	90	%	1	Std M 2540 B	08/31/11 11:00	DJS		
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Metals

Antimony	Not detected	mg/kg	0.11	6020	09/08/11 03:28	PER	7440-36-0
Arsenic	1.99	mg/kg	0.11	6020	09/08/11 03:28	PER	7440-38-2
Barium	14.3	mg/kg	1.11	6020	09/08/11 03:28	PER	7440-39-3
Beryllium	0.13	mg/kg	0.11	6020	09/08/11 03:28	PER	7440-41-7
Boron	Not detected	mg/kg	4.44	6020	09/08/11 03:28	PER	7440-42-8
Cadmium	Not detected	mg/kg	0.11	6020	09/08/11 03:28	PER	7440-43-9
Chromium	4.07	mg/kg	0.11	6020	09/08/11 03:28	PER	7440-47-3
Cobalt	3.02	mg/kg	0.11	6020	09/08/11 03:28	PER	7440-48-4
Copper	7.00	mg/kg	0.11	6020	09/08/11 03:28	PER	7440-50-8
Lead	3.96	mg/kg	0.11	6020	09/08/11 03:28	PER	7439-92-1
Manganese	240	mg/kg	0.11	6020	09/08/11 03:28	PER	7439-96-5
Mercury	0.0060	mg/kg	0.0056	7471A	09/06/11 16:11	JRT	7439-97-6
Nickel	8.67	mg/kg	0.11	6020	09/08/11 03:28	PER	7440-02-0
Selenium	0.21	mg/kg	0.11	6020	09/08/11 03:28	PER	7782-49-2
Silver	Not detected	mg/kg	0.11	6020	09/08/11 03:28	PER	7440-22-4
Thallium	Not detected	mg/kg	0.11	6020	09/08/11 03:28	PER	7440-28-0
Vanadium	7.24	mg/kg	0.11	6020	09/08/11 03:28	PER	7440-62-2
Zinc	14.8	mg/kg	0.11	6020	09/08/11 03:28	PER	7440-66-6

Organics - Semi-Volatiles

TCL Semi-Volatile Organics

Acenaphthene	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	83-32-9
Acenaphthylene	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	208-96-8
Acetophenone	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	98-86-2
Anthracene	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	120-12-7
Atrazine	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	1912-24-9
1,1'-Biphenyl	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	92-52-4
4-Bromophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	101-55-3
di-n-Butyl phthalate	Not detected	ug/kg	70	8270C	09/09/11 16:50	PL	84-74-2
Benzaldehyde	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	100-52-7
Benzo(a)anthracene	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	56-55-3
Benzo(a)pyrene	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	50-32-8
Benzo(b)fluoranthene	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	205-99-2
Benzo(ghi)perylene	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	191-24-2



Analytical Laboratory Report

Lab Sample ID: S49858.27 (continued)

Sample Tag: P2-SB-36(19-20)083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags	
Organics - Semi-Volatiles (continued)									
TCL Semi-Volatile Organics (continued)									
Benzo(k)fluoranthene	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	207-08-9		
Butyl benzyl phthalate	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	85-68-7		
2-Chloronaphthalene	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	91-58-7		
2-Chlorophenol	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	95-57-8		
4-Chloro-3-methylphenol	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	59-50-7		
4-Chloroaniline	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	106-47-8		
4-Chlorophenyl phenyl ether	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	7005-72-3		
Caprolactam	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	105-60-2		
Carbazole	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	86-74-8		
bis(2-Chloroethoxy)methane	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	111-91-1		
bis(2-Chloroethyl)ether	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	111-44-4		
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	108-60-1		
Chrysene	Not detected	ug/kg	70	8270C	09/09/11 16:50	PL	218-01-9		
2,4-Dichlorophenol	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	120-83-2		
2,4-Dimethylphenol	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	105-67-9		
2,4-Dinitrophenol	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	51-28-5		
2,4-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	121-14-2		
2,6-Dinitrotoluene	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	606-20-2		
3,3'-Dichlorobenzidine	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	91-94-1		
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	534-52-1		
Dibenzo(ah)anthracene	Not detected	ug/kg	70	8270C	09/09/11 16:50	PL	53-70-3		
Dibenzofuran	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	132-64-9		
Diethyl phthalate	Not detected	ug/kg	70	8270C	09/09/11 16:50	PL	84-66-2		
Dimethyl phthalate	210	ug/kg	48	70	8270C	09/09/11 16:50	PL	131-11-3	B
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	117-81-7		
Fluoranthene	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	206-44-0		
Fluorene	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	86-73-7		
Hexachlorobenzene	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	118-74-1		
Hexachlorobutadiene	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	87-68-3		
Hexachlorocyclopentadiene	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	77-47-4		
Hexachloroethane	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	67-72-1		
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	193-39-5		
Isophorone	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	78-59-1		
2-Methylnaphthalene	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	91-57-6		
2-Methylphenol	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	95-48-7		
3-, 4-Methylphenol	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	3/4-Cresol		
2-Nitroaniline	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	88-74-4		
2-Nitrophenol	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	88-75-5		
3-Nitroaniline	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	99-09-2		
4-Nitroaniline	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	100-01-6		
4-Nitrophenol	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	100-02-7		
N-Nitrosodi-n-propylamine	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	621-64-7		
N-Nitrosodiphenylamine	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	86-30-6		
Naphthalene	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	91-20-3		
Nitrobenzene	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	98-95-3		
di-n-Octyl phthalate	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	117-84-0		
Pentachlorophenol	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	87-86-5		
Phenanthrene	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	85-01-8		

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S49858.27 (continued)

Sample Tag: P2-SB-36(19-20)083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
TCL Semi-Volatile Organics (continued)								
Phenol	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	108-95-2	
Pyrene	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	129-00-0	
2,4,5-Trichlorophenol	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	40	8270C	09/09/11 16:50	PL	88-06-2	
Organics - Volatiles								
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	3	8260B - SIM	08/31/11 21:00	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/kg	1	8260B - SIM	08/31/11 21:00	JGH	106-93-4	
1,4-Dioxane	Not detected	ug/kg	300	8260B	08/31/11 21:00	WAT	123-91-1	
TCL Volatile Organics HighLevi 5035/8260								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	76-13-1	
Acetone	Not detected	ug/kg	610	5035/8260B	09/03/11 07:18	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	610	5035/8260B	09/03/11 07:18	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	610	5035/8260B	09/03/11 07:18	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	156-59-2	
Chloroform	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	610	5035/8260B	09/03/11 07:18	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	610	5035/8260B	09/03/11 07:18	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S49858.27 (continued)

Sample Tag: P2-SB-36(19-20)083011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/03/11 07:18	WAT		
o-Xylene	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	98-82-8	
Bromoform	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	60	5035/8260B	09/03/11 07:18	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S49858.28
 Sample Tag: Trip Blank - Merit
 Collected Date/Time: 08/30/2011 15:00
 Matrix: Liquid
 COC Reference: 16138

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
Organics - Volatiles								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	0.05	8260B - SIM	08/31/11 15:31	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/L	0.02	8260B - SIM	08/31/11 15:31	JGH	106-93-4	
1,4-Dioxane	Not detected	ug/L	5	8260B - SIM	08/31/11 15:31	WAT	123-91-1	

TCL Volatile Organics 8260

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



Analytical Laboratory Report

Lab Sample ID: S49858.28 (continued)

Sample Tag: Trip Blank - Merit

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Ethylbenzene	Not detected	ug/L	1	8260B	09/01/11 20:04	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	09/01/11 20:04	WAT		
o-Xylene	Not detected	ug/L	1	8260B	09/01/11 20:04	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	09/01/11 20:04	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	1	8260B	09/01/11 20:04	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	09/01/11 20:04	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	09/01/11 20:04	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	09/01/11 20:04	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	09/01/11 20:04	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	09/01/11 20:04	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	1	8260B	09/01/11 20:04	WAT	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S49858.29
Sample Tag: Trip Blank - Arcadis
Collected Date/Time: 08/30/2011 15:00
Matrix: Methanol
COC Reference: 16138

Sample Containers

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

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	3	J 8260B - SIM	08/31/11 21:18	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/kg	1	8260B - SIM	08/31/11 21:18	JGH	106-93-4	
1,4-Dioxane	Not detected	ug/kg	300	8260B	08/31/11 21:18	WAT	123-91-1	

TCL Volatile Organics HighLevel 5035/8260

1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	76-13-1	
Acetone	Not detected	ug/kg	500	5035/8260B	09/03/11 07:36	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	75-15-0	
Methyl Acetate	Not detected	ug/kg	500	5035/8260B	09/03/11 07:36	WAT	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	1634-04-4	
2-Butanone (MEK)	Not detected	ug/kg	500	5035/8260B	09/03/11 07:36	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	156-59-2	
Chloroform	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	71-55-6	
Cyclohexane	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	500	5035/8260B	09/03/11 07:36	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	500	5035/8260B	09/03/11 07:36	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	56-23-5	
Benzene	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	75-27-4	
Methyl cyclohexane	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	10061-01-5	
Toluene	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	127-18-4	
Dibromochloromethane	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	106-93-4	
Chlorobenzene	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	79-34-5	



Analytical Laboratory Report

Lab Sample ID: S49858.29 (continued)

Sample Tag: Trip Blank - Arcadis

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics HighLevel 5035/8260 (continued)								
Ethylbenzene	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	5035/8260B	09/03/11 07:36	WAT		
o-Xylene	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	95-47-6	
Styrene	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	98-82-8	
Bromoform	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	50	5035/8260B	09/03/11 07:36	WAT	120-82-1	



Infrastructure, environment, buildings

ID#: 16139

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page ___ of ___

Lab Work Order #

Project Name: Randy Christensen / Arcadis Address: 10559 Citation Dr., Suite 100 City: Brighton MI 48116 State: MI Zip: 48116 E-Address: Randy.Christensen@Arcadis-us.com Project #: B0064479.2011 Sample's Printed Name: Austin Westhuis		Telephone: 810-225-1940 Fax: E-Address: Randy.Christensen@Arcadis-us.com Project #: B0064479.2011 Sample's Signature: <i>Austin Westhuis</i>
Project Name/Location (City, State): Plant 2 / Lansing, MI Sample's Printed Name: Austin Westhuis	Telephone: 810-225-1940 Fax: E-Address: Randy.Christensen@Arcadis-us.com Project #: B0064479.2011 Sample's Signature: <i>Austin Westhuis</i>	Telephone: 810-225-1940 Fax: E-Address: Randy.Christensen@Arcadis-us.com Project #: B0064479.2011 Sample's Signature: <i>Austin Westhuis</i>

Sample ID	Collection Date	Time	Type (%)		Matrix	REMARKS
			Comp	Grab		
01 PA-SB-23(3-4)082911	8/29/11	1030	✓		SO	
02 PA-SB-23(19-20)082911	8/29/11	1035	✓		SO	
03 PA-SB-26(5-6)082911	8/29/11	1110	✓		SO	
04 Duplicate 1 - P2	8/29/11	1115	✓		SO	Duplicate
05 PA-SB-26(19-20)082911	8/29/11	1120	✓		SO	
06 PA-SB-26(19-20)082911 MS	8/29/11	1125	✓		SO	MS
07 PA-SB-26(19-20)082911 MSD	8/29/11	1130	✓		SO	MSD
08 PA-SB-18(4-5)082911	8/29/11	1215	✓		SO	
09 PA-SB-18(19-20)082911	8/29/11	1220	✓		SO	
10 PA-SB-21(4-5)082911	8/29/11	1040	✓		SO	
11 PA-SB-21(9-10)082911	8/29/11	1045	✓		SO	
12 PA-SB-21(19-20)082911	8/29/11	1050	✓		SO	
13 PA-SB-22(4-5)083011	8/30/11	0935	✓		SO	
14 PA-SB-22(9-10)083011	8/30/11	0930	✓		SO	

Special Instructions/Comments: Deliverables Required: EDD
 PO.# = MLT-1300-1
 QX Level III

Lab Name	Received By	Relinquished By	Received By	Relinquished By
Merit	<i>Im Sied</i>	<i>Im Sied</i>	<i>Im Sied</i>	<i>Im Sied</i>
Cooler packed with ice (✓)	<i>Im Sied</i>	<i>Im Sied</i>	<i>Im Sied</i>	<i>Im Sied</i>
Specify Turnaround Requirements: Standard	<i>Im Sied</i>	<i>Im Sied</i>	<i>Im Sied</i>	<i>Im Sied</i>
Shipping Tracking #	<i>Im Sied</i>	<i>Im Sied</i>	<i>Im Sied</i>	<i>Im Sied</i>

Special Instructions/Comments: Special QA/QC Instructions (✓):
 Distribution: WHITE - Laboratory returns with results
 YELLOW - Lab copy
 PINK - Retained by ARCADIS

