REPORT

June 26, 2015
13-1069.2 E

Environmental Services Report

Environmental Soil Sampling and Testing Services
Former Warehouse Building Property
161 Mount Vernon Avenue
Augusta, Maine

PREPARED FOR:
NRF Distributors
Attention: Paul LaChance
485 Old Belgrade Road
PO Box 2467
Augusta, Maine 04338-2467

PREPARED BY:
S. W. Cole Engineering, Inc.
286 Portland Road
Gray, Maine 04039
(207) 657-2866

S.W.COLE
ENGINEERING, INC.

- *Geotechnical Engineering*
- *Construction Materials Testing*
- *GeoEnvironmental Services*
- *Ecological Services*

www.swcole.com

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13-1069.2 E

June 26, 2015

NRF Distributors
Attention: Paul LaChance
485 Old Belgrade Road
PO Box 2467
Augusta, Maine 04338-2467

Subject: Report
Environmental Soil Sampling and Testing Services
Former Warehouse Building Property
161 Mount Vernon Avenue
Augusta, Maine

Dear Mr. LaChance:

S. W. Cole Engineering, Inc. (S.W.COLE) has completed Environmental Soil Sampling and Testing Services for the property at 161 Mount Vernon Avenue in Augusta, Maine (the "Site"). The purpose of the services was to characterize soil conditions at the Site after evidence of petroleum/chemical contamination was reported in soils during the excavation of one test pit (TP-1) made southwest of the former warehouse building concrete floor slab in October 2013. This Environmental Soil Sampling and Testing Services report is subject to the Limitations attached as Appendix A.

S.W.COLE monitored the excavation of five (5) test pit explorations (TP-101 through TP-105) at the Site on June 4, 2015. The test pits were excavated by Quirion Construction using a Komatsu 78 excavator. S.W.COLE had marked the Site with grade stakes and contacted DigSafe to clear public utilities prior to excavation. Test pits TP-102 and TP-103 were made adjacent to the south side of the existing concrete slab. Test Pits TP-101, TP-104 and TP-105 were made in an area west and southwest of the concrete slab in the vicinity of TP-1 previously made at the Site.

The approximate locations of the test pits are shown on the Site and Exploration Location Plan attached as Sheet B-2 in Appendix B. Logs of the test pits are attached as Sheets 1 through 3 in Appendix C. Color photographs of the conditions encountered during the excavation of the test pits are attached in Appendix D.

The soil profile encountered in TP-101 through TP-105 generally consisted of 6 to 10 ft. of urban fill containing brick, concrete, burned wood and organics overlying native sandy clayey silt. A slight petroleum odor and some soil staining was noted during the excavation of TP-101, and strong petroleum odors and soil staining were noted during the excavation of TP-105. Test pits TP-101, TP-102, TP-103 and TP-105 were terminated in what appeared to be native soils between 8.0 and 10.5 ft. Test pit TP-104 was terminated in fill soils at 4.0 ft. after a foundation drain was broken during excavation. Perched groundwater was observed seeping from fill material in the test pit sidewalls between 3.5 ft. and 5.5 ft. in TP-101, TP-102 and TP-104. Light to moderate groundwater seepage was observed at 6.3 ft. in TP-103. An oily sheen was observed on perched groundwater at 5 ft. and at 9 ft. in TP-105.

S.W.COLE collected soil samples for field screening at varying depths from each of the test pits except TP-104. The soil samples were tested in the field for petroleum impact in accordance with Maine Department of Environmental Protection (MeDEP) Standard Operating Procedure TS004 'Compendium of Field Testing of Soil Samples for Gasoline and Fuel Oil'.

Each soil sample was screened using an IonScience Phocheck 1000+ photo-ionization detector (PID) equipped with a 10.6 eV lamp calibrated with 100 parts per million (ppm) isobutylene gas. The PID screening results for fill soil samples collected in TP-101 at depths of 2.0 ft., 4.0 ft., 5.0 ft. and 6.0-7.0 ft. were non detect, non detect, 4.7 ppm, 56 ppm and 7.7 ppm, respectively. The soils between 3.0 ft. and 7.0 ft. collected from TP-101 were observed to have a slight petroleum odor. The PID screening results for fill soil samples collected at the depth interval of 2.0 ft. and between 4.0-5.0 ft. from TP-102 and TP-103 were non detect. A soil sample collected from native soils in TP-103 at 7.0-8.0 ft. was non detect. The PID screening results for dark gray-stained soils collected from TP-105 at depths of 3.5-4.0 ft., 5.0 ft., 7.0 ft., 9.0 ft. and 10.5 ft. were 185 ppm, 104 ppm, 83.6 ppm, 174 ppm and 16.4 ppm, respectively. These samples were observed to exhibit a strong to moderate

petroleum odor. The PID screening results are included on the test pit logs in Appendix C.

Most of the fill soil samples with detectable PID readings were also field screened by S.W.COLE for the presence of fuel oil using the oleophilic dye test ("Oil in Soil") as described in MeDEP TS004. The "Oil in Soil" field screening results were negative for the presence of fuel oil in the three samples screened from TP-101, negative for the presence of fuel oil for one sample collected in TP-102 and ranged from negative to saturated for the presence of fuel oil in four samples collected from TP-105. The "Oil in Soil" screening results are included on the test pit logs in Appendix C. According to the "Remediation Guidelines for Petroleum Contaminated Sites in Maine", the fuel oil contaminated soils in the area of TP-5 should be cleaned up based on the saturated "Oil in Soil" screening results.

We submitted the soil sample with the highest detectable PID reading for laboratory analysis. A soil sample collected from TP-105 at 3.5-4.0 ft. was delivered to Katahdin Analytical Services (KAS) in Scarborough, Maine for the following analyses: polycyclic aromatic hydrocarbons (PAHs); extractable petroleum hydrocarbons (EPH); volatile petroleum hydrocarbons (VPH); volatile organic compounds (VOCs) and RCRA 8 metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver). Laboratory results are attached in Appendix E.

Several target compounds were detected in the soil sample submitted from TP-105. The compounds included PAHs (Naphthalene, Fluorene, Phenanthrene, Fluoranthene and Pyrene), VOCs (sec-Butylbenzene and N-Butylbenzene) and extractable/volatile petroleum hydrocarbons found in fuel oil, diesel fuel and gasoline. We compared the laboratory results to applicable MeDEP Remedial Action Guidelines for Petroleum Contaminated Sites in Maine (*Table 5 Tier 2 Soil Remediation Guidelines for Petroleum Target Compounds and Hydrocarbon Fractions* and *Table 6 Tier 2 Soil Remediation Guidelines for Selected PAHs)*. The laboratory results were below the most conservative remedial guidelines established by the MeDEP, which are the residential exposure scenario and the urban soil scenario.

In conclusion, fuel oil-contaminated soil and groundwater were encountered in two test pits made in an area south-southwest of the former warehouse building concrete floor slab on the Site. The contamination was encountered in urban fill soils between approximately 3 ft. and 7 ft. in TP-101 and between 3.5 ft. and 10 ft. in TP-105 and in native soils at 10.5 ft. in TP-105. PID readings for contaminated fill soil samples collected from TP-101 and TP-105 ranged between 4.7 ppm and 185 ppm. "Oil in Soil" field screening results were slightly positive to saturated for soils in TP-105. MeDEP Remedial Action Guidelines indicate that due to saturated "Oil in Soil" test results, the fuel oil contaminated soils encountered in the area of TP-5 may require remediation even if the Site is not used for residential purposes.

A soil sample collected from TP-105 at 3.5-4.0 ft. was submitted to KAS for laboratory analysis of PAHs, EPH, VPH, VOCs and RCRA 8 metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver). Several target compounds were detected in the soil sample collected from TP-105 at 3.5-4.0 ft., however, these compounds were detected at levels below the most conservative (residential) exposure scenario guidelines established by the MeDEP.

The fuel oil contamination is from a historic source. Based on it being located at depths of 3 ft. and more below the ground surface and that properties in the Site area are connected to municipal water and sewer utilities, it does not pose an immediate threat to health or the environment.

It is recommended that the discovery of fuel oil contaminated soils at the Site be reported to the MeDEP so that they can make a determination as to whether remediation of the soils is required at this time.

Please contact us if you have any questions or require further information.

Sincerely,

S. W. Cole Engineering, Inc.

Patrick Otto
Environmental Scientist

S.W.COLE ENGINEERING, INC.

13-1069.2 E
June 26, 2015

Gary W. Bucklin, C.G.
V.P. of GeoScience Services

Attachments: Limitations, Map & Plan, TP Logs, Photo Sheets & Laboratory Results

PJO/GWB:pjo

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APPENDIX A
Limitations

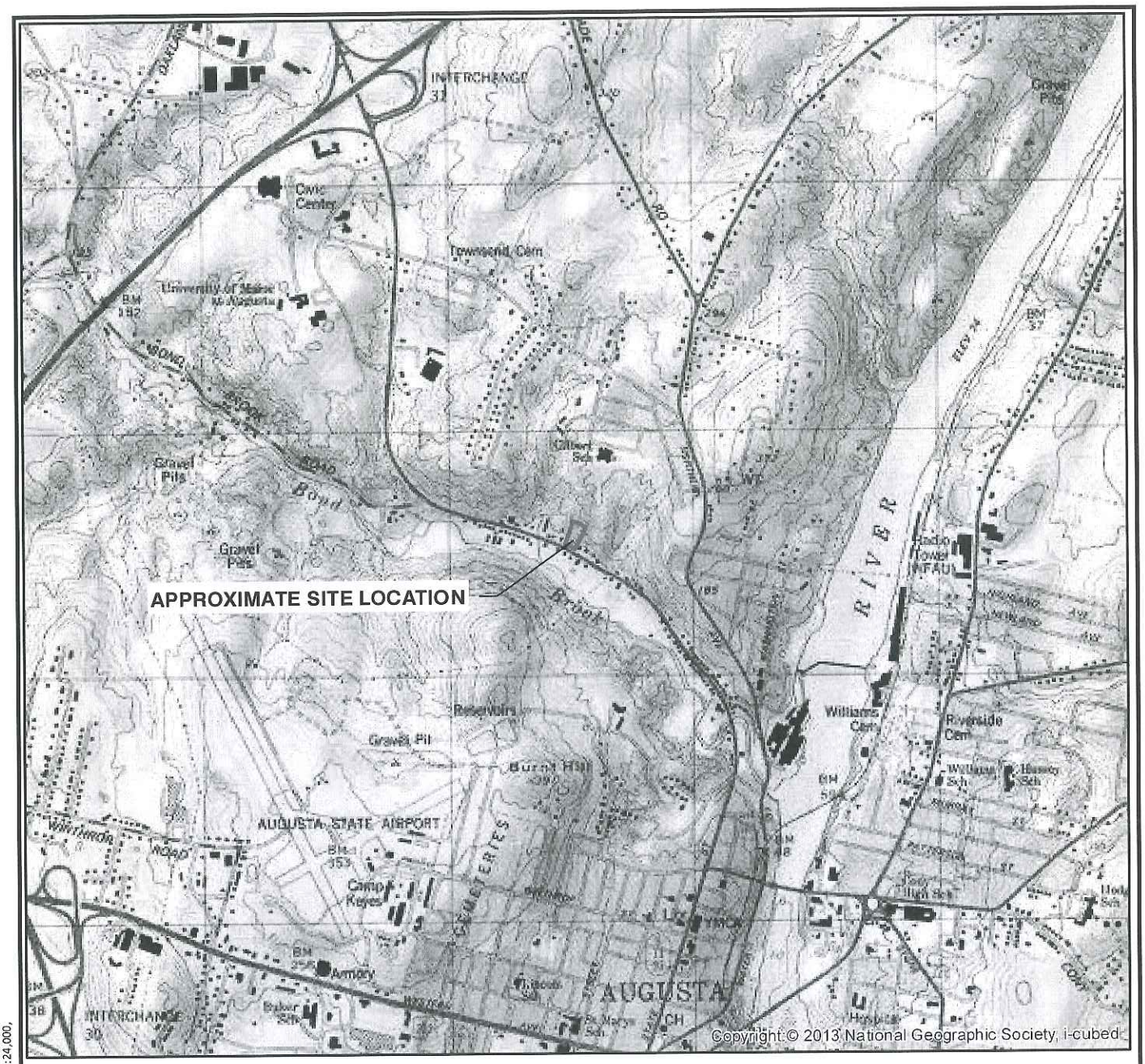
This report has been prepared for the exclusive use of Paul LaChance with NRF Distributors for specific application to the Environmental Soil Sampling and Testing Services performed for the former warehouse building property at 161 Mount Vernon Avenue in Augusta, Maine. We have endeavored to prepare this report in accordance with generally accepted practices. No warranty, expressed or implied, is made.

The scope of our assessment has been limited to the items specifically discussed in the text of this report. Recommendations contained in this report are based substantially upon information provided by others regarding the site and on our findings during the site visit. S. W. Cole Engineering, Inc. should review any additional data or information that becomes available. S. W. Cole Engineering, Inc. will assess the additional information and modify the conclusions and recommendations presented in this report as necessary and appropriate.

This report cannot reflect undetected variations that may occur, nor can it reflect variations of subsurface conditions (groundwater quality or elevation) over time. S. W. Cole Engineering, Inc. has made no attempt to verify the compliance of the past or present owners and/or occupants of the property with local, state, or federal laws and regulations.

S. W. Cole Engineering, Inc.'s scope of work did not include the investigation, detection, or prevention of any Biological Pollutants at the project site or in any existing or proposed structure at the site. The term "Biological Pollutants" includes, but is not limited to, molds, fungi, spores, bacteria, and viruses, and the products of any such biological organisms. It must be noted that our findings do not represent scientific certainties and are based on professional judgment. S. W. Cole Engineering, Inc. does not represent that the subject site contains no hazardous substances or other latent conditions beyond that detected or observed by S. W. Cole Engineering, Inc. during this environmental site assessment.

APPENDIX B



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Scale in Feet

S.W.COLE ENGINEERING, INC.

NRF DISTRIBUTORS

SITE LOCATION MAP

FORMER WAREHOUSE BUILDING PROPERTY
161 MOUNT VERNON AVENUE
AUGUSTA, MAINE

Job No.	13-1069.2	Scale	1:24000
Date:	06/25/2015	Sheet	B-1

NOTE:
SITE LOCATION MAP PREPARED FROM ESRI ArcGIS ONLINE AND DATA PARTNERS INCLUDING USGS AND © 2007 NATIONAL GEOGRAPHIC SOCIETY.

R:\2013\13-1069.2\GIS\MXDs\13-1069.2 Sheet B-1 SLM.mxd, 6/25/2015 10:36:01 AM, 1:24,000,

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Scale in Feet

TRUE N

LEGEND

(1) APPROXIMATE ENVIRONMENTAL SITE ASSESSMENT FEATURE LOCATION

APPROXIMATE TEST PIT LOCATION

APPROXIMATE SITE BOUNDARY

KEY TO ENVIRONMENTAL SITE ASSESSMENT FEATURES

1 REMNANT CONCRETE BUILDING SLAB FROM THE FORMER 3,800 SQUARE FOOT WAREHOUSE BUILDING ON THE SITE

NOTES:

1. EXPLORATION LOCATION PLAN PREPARED FROM IMAGERY FROM STATE OF MAINE AERIAL ORTHOPHOTOS PROVIDED BY THE STATE OF MAINE, MAINE OFFICE OF GIS AND MAINE GEOLIBRARY BOARD.
2. THE LOCATIONS OF ENVIRONMENTAL SITE ASSESSMENT FEATURES AND TEST PITS ARE APPROXIMATE AND ARE BASED ON RELATIVE LOCATIONS TO EXISTING SITE FEATURES OBSERVED.
3. THIS PLAN SHOULD BE USED IN CONJUNCTION WITH THE ASSOCIATED S. W. COLE ENGINEERING, INC. REPORT.
4. PARCEL LINES FROM MAINE LIBRARY OF GEOGRAPHIC INFORMATION (MLGI), MAINE OFFICE OF GEOGRAPHIC INFORMATION SYSTEMS (MEGIS) (COMP., ED.)
5. THE PURPOSE OF THIS PLAN IS ONLY TO DEPICT THE LOCATION OF THE ENVIRONMENTAL SITE ASSESSMENT FEATURES IN RELATION TO THE EXISTING CONDITIONS AND IS NOT TO BE USED FOR CONSTRUCTION OR CONVEYANCE.

S.W.COLE ENGINEERING, INC.

NRF DISTRIBUTORS

EXPLORATION LOCATION PLAN

FORMER WAREHOUSE BUILDING PROPERTY
161 MOUNT VERNON AVENUE
AUGUSTA, MAINE

Job No.	13-1069.2	Scale	1"=50'
Date:	06/25/2015	Sheet	B-2

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APPENDIX C

S.W.COLE ENGINEERING, INC.

TEST PIT LOGS

PROJECT/CLIENT: FORMER WAREHOUSE BUILDING PROPERTY / NRF DISTRIBUTORS
LOCATION: 161 MOUNT VERNON AVENUE, AUGUSTA, MAINE
OPERATOR: QUIRION CONSTRUCTION -BILL / EXCAVATOR : KAMATSU 78

PROJECT NO. 13-1069.2

TEST PIT 101

DATE: 6/4/2015 SURFACE ELEVATION: 46-47' +/- LOCATION: SEE ATTACHED PLAN

SAMPLE NO.	SAMPLE DEPTH	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
			BROWN GRAVELLY SILTY SAND (FILL)	
S-1	2.0'	2.0'		PID = ND
		2.5'	GRAY SILTY SAND SOME GRAVEL WITH BRICK DEBRIS (FILL)	OLEOPHILIC DYE TEST = ND
			2"± PLASTIC PIPE AT 3.0'±	
S-2	4.0'		GRAY/BROWN GRAVELLY SILTY SAND WITH CLAY LAYERS BLACK STAINED ORGANICS, BRICK AND CONCRETE DEBRIS (FILL)	PID = 4.7 PPM OLEOPHILIC DYE TEST = ND
S-3	3-5'		2"± METAL PIPE AT 5.0'±	PID = 56 PPM
		6.0'		PID = 7.7 PPM
S-4	6-7'	7.0'	BROWN SAND SOME GRAVEL (FILL)	OLEOPHILIC DYE TEST = ND
		7.5'	FILL AND DISTURBED NATIVE SOILS	
		8.0'	GRAY-BROWN SANDY CLAYEY SILT	
			BOTTOM OF EXPLORATION	

COMPLETION DEPTH: 8.0' DEPTH TO WATER: LIGHT SEEPAGE AT 3.5'
MODERATE SEEPAGE AT 5.5'

TEST PIT 102

DATE: 6/4/2015 SURFACE ELEVATION: 46-47' +/- LOCATION: SEE ATTACHED PLAN

SAMPLE NO.	SAMPLE DEPTH	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
		1.3'	BROWN GRAVELLY SILTY SAND WITH BRICK AND ASPHALT (FILL)	
	3.0'		BROWN SILTY SAND WITH CLAYEY SILT LAYERS, COBBLES AND BRICK DEBRIS (FILL)	OLEOPHILIC DYE TEST = ND
S-1	4-5'	4.7'		PID = ND
		7.0'	DARK BROWN-BLACK WOOD DEBRIS WITH BRICK, CONCRETE, BURNED DEBRIS AND SILTY SAND (FILL)	
		8.0'	GRAY-BROWN SANDY CLAYEY SILT, TRACE ROOTLETS, IRON OXIDE STAINED	
			BOTTOM OF EXPLORATION	

COMPLETION DEPTH: 8.0' DEPTH TO WATER: LIGHT SEEPAGE AT 4.5'

S.W.COLE ENGINEERING, INC.

TEST PIT LOGS

PROJECT/CLIENT: FORMER WAREHOUSE BUILDING PROPERTY / NRF DISTRIBUTORS
LOCATION: 161 MOUNT VERNON AVENUE, AUGUSTA, MAINE
OPERATOR: QUIRION CONSTRUCTION -BILL / EXCAVATOR : KAMATSU 78

PROJECT NO. 13-1069.2

TEST PIT 103

DATE: 6/4/2015 SURFACE ELEVATION: 46-47' +/- LOCATION: SEE ATTACHED PLAN

SAMPLE NO.	SAMPLE DEPTH	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
		0.8	BROWN SILTY SAND AND GRAVEL WITH ASPHALT AND BRICK DEBRIS (FILL)	
S-1	2.0'	1.7	BROWN GRAVELLY SAND SOME SILT (FILL)	PID = ND
		5.0	GRAY SANDY SILT WITH BRICK DEBRIS AND CLAYEY SILT LAYERS (FILL)	
		7.0'	GRAY-BROWN SANDY CLAYEY SILT WITH COBBLES AND WOOD (FILL)	
S-2	7-8'	8.0	GRAY SANDY CLAYEY SILT TRACE ROOTLETS	PID = ND
			BOTTOM OF EXPLORATION	

COMPLETION DEPTH: 8.0' DEPTH TO WATER: LIGHT TO MODERATE SEEPAGE AT 6.3'

TEST PIT 104

DATE: 6/4/2015 SURFACE ELEVATION: 46-47' +/- LOCATION: SEE ATTACHED PLAN

SAMPLE NO.	SAMPLE DEPTH	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
		4.0'	BROWN GRAVELLY SILTY SAND WITH CONCRETE PIECES AND A BASEBALL (FILL) WATER FLOWING INTO TEST PIT FROM PUNCTURED FOUNDATION UNDERDRAIN	
			BOTTOM OF EXPLORATION	

COMPLETION DEPTH: 4.0' DEPTH TO WATER: WATER FROM UNDERDRAIN AT 3.5'-4.0'

S.W.COLE ENGINEERING, INC.

TEST PIT LOGS

PROJECT/CLIENT: FORMER WAREHOUSE BUILDING PROPERTY / NRF DISTRIBUTORS
LOCATION: 161 MOUNT VERNON AVENUE, AUGUSTA, MAINE
OPERATOR: QUIRION CONSTRUCTION -BILL / EXCAVATOR : KAMATSU 78

PROJECT NO. 13-1069.2

TEST PIT 105

DATE: 6/4/2015 SURFACE ELEVATION: 46-47' +/- LOCATION: SEE ATTACHED PLAN

SAMPLE NO.	SAMPLE DEPTH	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
		3.0'	BROWN SILTY SAND AND GRAVEL WITH BRICK DEBRIS, ORGANICS AND CLAYEY SILT LAYERS (FILL)	
S-1	3.5-4'		DARK GRAY WITH BLACK STAINED GRAVELLY SILTY SAND WITH CLAYEY SILT LAYERS (FILL)	PID = 185 PPM OLEOPHILIC DYE TEST = **SLIGHTLY POSITIVE**
S-2	5.0'		2"± METAL PIPE AT 5.0'	PID = 104 PPM OLEOPHILIC DYE TEST = **POSITIVE**
S-3	7.0'	8.5'	METAL FUEL SUPPLY TYPE LINE AT 6.5'±	PID = 83.6 PPM OLEOPHILIC DYE TEST = **POSITIVE**
S-4	9.0'		DARK GRAY SAND SOME SILT SOME GRAVEL (FILL)	PID = 174 PPM / OLEOPHILIC DYE TEST = **SATURATED**
S-5	10.5'	10.0'	GRAY CLAYEY SILT SOME SAND	PID = 16.4 PPM / DYE TEST = ND

COMPLETION DEPTH: 10.5' DEPTH TO WATER: LIGHT SEEPAGE AT 5' AND 9'

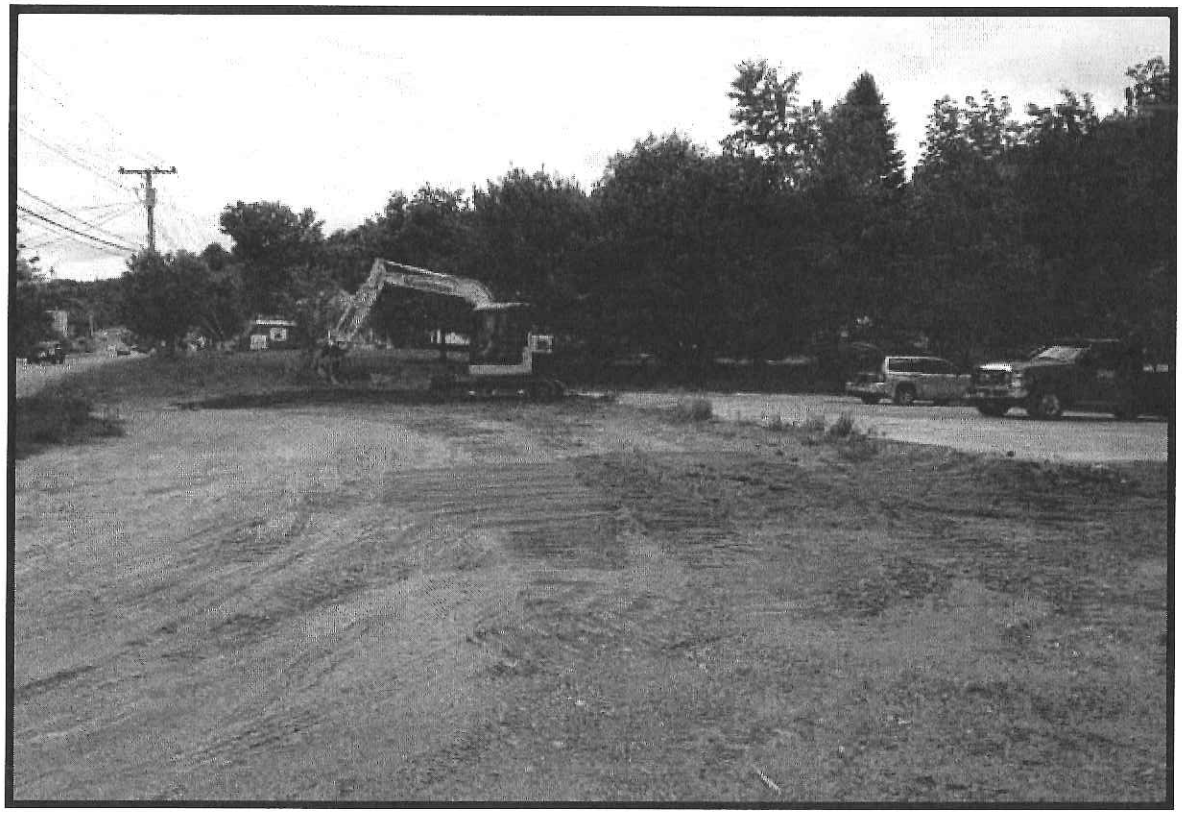
TEST PIT _____

DATE: _____ SURFACE ELEVATION: _____ LOCATION: _____

SAMPLE NO.	SAMPLE DEPTH	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS

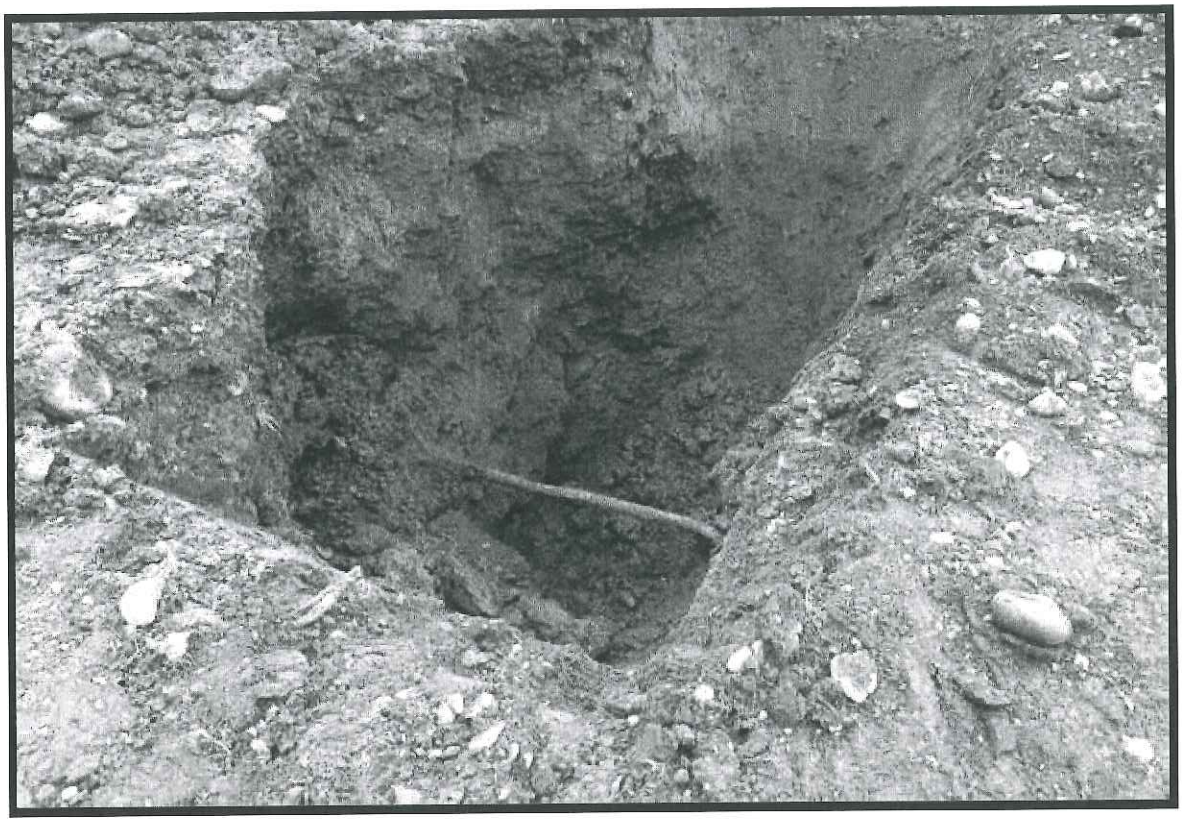
COMPLETION DEPTH: _____ DEPTH TO WATER: _____

APPENDIX D



Westerly view across the south end of the Site

TP-105 made near the southwest corner of the existing concrete slab on the Site



Petroleum stained fill soils and pipe observed in TP-105

Dark gray petroleum contaminated fill soils excavated from TP-105

APPENDIX E

Katahdin
ANALYTICAL SERVICES

Cert. No. E87604

June 18, 2015

Mr. Pat Otto
S. W. Cole Engineering, Inc.
286 Portland Road
Gray,ME 04039

RE: Katahdin Lab Number: SI3835
Project ID: Mt. Vernon Ave/13-1069.2
Project Manager: Ms. Diane Paul
Sample Receipt Date(s): June 04, 2015

Dear Mr. Otto:

Please find enclosed the following information:

* Report of Analysis (Analytical and/or Field)
* Quality Control Data Summary
* Chain of Custody (COC)
* Login Report

A copy of the Chain of Custody is included in the paginated report. The original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. The results contained in this report relate only to the submitted samples. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Please go to http://www.katahdinlab.com/cert.html for copies of Katahdin Analytical Services Inc. current certificates and analyte lists.

Sincerely,
KATAHDIN ANALYTICAL SERVICES

Deborah J. Nadeau
Authorized Signature

06/18/2015
Date

TECHNICAL NARRATIVE

Organics Analysis

The sample of Work Order SI3835 was analyzed in accordance with Method for the Determination of Extractable Petroleum Hydrocarbons (EPH) MADEP, May 2004, Revision 1.1, and/or Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), MADEP, May 2004, Revision 1.1, and/or "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846, 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA, and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA, and/or the specific methods listed below or on the Report of Analysis.

8270C Analysis

Sample SI3835-1 had a high recovery for one surrogate, which was outside the laboratory established acceptance limits. The sample also had low responses for two internal standards that resulted in %D's which were outside the laboratory acceptance limit of -50% to +100% of the response of the internal standard of the daily calibration verification standard. Based on the sample chromatogram, the deviations are likely attributable to a matrix effect. Therefore, no further action was taken.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The recoveries of the spiked analytes in the LCS, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are compared to these acceptance limits. Katahdin standard operating procedure is to take corrective action only if the number of spiked analytes in the LCS that are outside of the QC limits is greater than ten percent of the client compound list. If the associated MS/MSD has greater than the allowable number of exceedances, no corrective action is taken, as long as the LCS is acceptable.

8260B Analysis

The analysis of the low concentration soil sample vial (DI water) of sample SI3835-1 had a high recovery for the surrogate p-bromofluorobenzene, which was outside of the laboratory established acceptance limits. The sample was reanalyzed using the high concentration soil sample vial (methanol) due to high concentrations of one or more target analytes that were outside the calibration range, and also had a high recovery for the surrogate p-bromofluorobenzene that confirmed a matrix effect. Therefore, no further action was taken and the results from both analyses are reported.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The recoveries of the spiked analytes in the LCS, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are compared to these acceptance limits. Katahdin standard operating procedure is to take corrective action only if the number of spiked analytes in the LCS that are outside of the QC limits is greater than ten percent of the client compound list. If the associated MS/MSD has greater than the allowable number of exceedances, no corrective action is taken, as long as the LCS is acceptable.

There were no other protocol deviations or observations noted by the organics laboratory staff.

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U — Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

E — Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J — Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

I-7 — The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 — Please refer to cover letter or narrative for further information.

H_ — Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H1 - pH H2 - DO H3 - sulfide H4 - residual chlorine

T1 — The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 — The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

M1 — The matrix spike and/or matrix spike duplicate recovery performed on this sample was outside of the laboratory acceptance criteria. Sample matrix is suspected. The laboratory criteria was met for the Laboratory Control Sample (LCS) analyzed concurrently with this sample.

M2 — The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory acceptance criteria. The native sample concentration is greater than four times the spike added concentration so the spike added could not be distinguished from the native sample concentration.

R1 — The relative percent difference (RPD) between the duplicate analyses performed on this sample was outside of the laboratory acceptance criteria (when both values are greater than ten times the PQL).

MCL	Maximum Contaminant Level	NL	No limit
NFL	No Free Liquid Present	FLP	Free Liquid Present
NOD	No Odor Detected	TON	Threshold Odor Number

D-1 — As required by Method 5210B, APHA Standard Methods for the Examination of Water and Wastewater (21st edition), the BOD value reported for this sample is 'qualified' because the check standard run concurrently with the sample analysis did not meet the criteria specified in the method (198 +/- 30.5 mg/L). These results may not be reportable for compliance purposes.

D-2 — The measured final dissolved oxygen concentrations of all dilutions were less than the method-specified limit of 1 mg/L. The reported BOD result was calculated assuming a final oxygen concentration equal to 1 mg/L.

D-3 — The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.2 or 0.4 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: S. W. Cole Engineering, Inc.
Lab ID: SI3835-1
Client ID: TP-105
Project: Mt. Vernon Ave/13-1069.2
SDG: SI3835
Lab File ID: W2989.D

Sample Date: 04-JUN-15
Received Date: 04-JUN-15
Extract Date: 09-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164441

Analysis Date: 09-JUN-15
Analyst: EME
Analysis Method: SW846 8260B
Matrix: SL
% Solids: 89.
Report Date: 17-JUN-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL
Dichlorodifluoromethane	U	8.2	ug/Kgdrywt	1	10	8.2
Chloromethane	U	8.2	ug/Kgdrywt	1	10	8.2
Vinyl Chloride	U	8.2	ug/Kgdrywt	1	10	8.2
Bromomethane	U	8.2	ug/Kgdrywt	1	10	8.2
Chloroethane	U	8.2	ug/Kgdrywt	1	10	8.2
Trichlorofluoromethane	U	8.2	ug/Kgdrywt	1	10	8.2
1,1-Dichloroethene	U	4.1	ug/Kgdrywt	1	5	4.1
Methylene Chloride	U	20	ug/Kgdrywt	1	25	20.
trans-1,2-Dichloroethene	U	4.1	ug/Kgdrywt	1	5	4.1
1,1-Dichloroethane	U	4.1	ug/Kgdrywt	1	5	4.1
cis-1,2-Dichloroethene	U	4.1	ug/Kgdrywt	1	5	4.1
1,2-Dichloroethylene (Total)	U	8.2	ug/Kgdrywt	1	10	8.2
2,2-Dichloropropane	U	4.1	ug/Kgdrywt	1	5	4.1
Chloroform	U	4.1	ug/Kgdrywt	1	5	4.1
Bromochloromethane	U	4.1	ug/Kgdrywt	1	5	4.1
1,1,1-Trichloroethane	U	4.1	ug/Kgdrywt	1	5	4.1
1,2-Dichloroethane	U	4.1	ug/Kgdrywt	1	5	4.1
1,1-Dichloropropene	U	4.1	ug/Kgdrywt	1	5	4.1
Carbon Tetrachloride	U	4.1	ug/Kgdrywt	1	5	4.1
Benzene	U	4.1	ug/Kgdrywt	1	5	4.1
1,2-Dichloropropane	U	4.1	ug/Kgdrywt	1	5	4.1
Trichloroethene	U	4.1	ug/Kgdrywt	1	5	4.1
Dibromomethane	U	4.1	ug/Kgdrywt	1	5	4.1
Bromodichloromethane	U	4.1	ug/Kgdrywt	1	5	4.1
cis-1,3-Dichloropropene	U	4.1	ug/Kgdrywt	1	5	4.1
Toluene	U	4.1	ug/Kgdrywt	1	5	4.1
trans-1,3-Dichloropropene	U	4.1	ug/Kgdrywt	1	5	4.1
1,1,2-Trichloroethane	U	4.1	ug/Kgdrywt	1	5	4.1
1,3-Dichloropropane	U	4.1	ug/Kgdrywt	1	5	4.1
Dibromochloromethane	U	4.1	ug/Kgdrywt	1	5	4.1
Tetrachloroethene	U	4.1	ug/Kgdrywt	1	5	4.1
1,2-Dibromoethane	U	4.1	ug/Kgdrywt	1	5	4.1
Chlorobenzene	U	4.1	ug/Kgdrywt	1	5	4.1
1,1,1,2-Tetrachloroethane	U	4.1	ug/Kgdrywt	1	5	4.1
Ethylbenzene	U	4.1	ug/Kgdrywt	1	5	4.1

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Cert No E87604

Report of Analytical Results

Client: S. W. Cole Engineering, Inc.
Lab ID: SI3835-1
Client ID: TP-105
Project: Mt. Vernon Ave/13-1069.2
SDG: SI3835
Lab File ID: W2989.D

Sample Date: 04-JUN-15
Received Date: 04-JUN-15
Extract Date: 09-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164441

Analysis Date: 09-JUN-15
Analyst: EME
Analysis Method: SW846 8260B
Matrix: SL
% Solids: 89.
Report Date: 17-JUN-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL
Bromoform	U	4.1	ug/Kgdrywt	1	5	4.1
Styrene	U	4.1	ug/Kgdrywt	1	5	4.1
1,1,2,2-Tetrachloroethane	U	4.1	ug/Kgdrywt	1	5	4.1
1,2,3-Trichloropropane	U	4.1	ug/Kgdrywt	1	5	4.1
Isopropylbenzene		79	ug/Kgdrywt	1	5	4.1
Bromobenzene	U	4.1	ug/Kgdrywt	1	5	4.1
2-Chlorotoluene	U	4.1	ug/Kgdrywt	1	5	4.1
N-Propylbenzene		140	ug/Kgdrywt	1	5	4.1
4-Chlorotoluene	U	4.1	ug/Kgdrywt	1	5	4.1
1,3,5-Trimethylbenzene	U	4.1	ug/Kgdrywt	1	5	4.1
tert-Butylbenzene		150	ug/Kgdrywt	1	5	4.1
1,2,4-Trichlorobenzene	U	4.1	ug/Kgdrywt	1	5	4.1
sec-Butylbenzene	E	260	ug/Kgdrywt	1	5	4.1
1,3-Dichlorobenzene	U	4.1	ug/Kgdrywt	1	5	4.1
P-Isopropyltoluene		150	ug/Kgdrywt	1	5	4.1
1,4-Dichlorobenzene	U	4.1	ug/Kgdrywt	1	5	4.1
1,2-Dichlorobenzene	U	4.1	ug/Kgdrywt	1	5	4.1
N-Butylbenzene		120	ug/Kgdrywt	1	5	4.1
1,2-Dibromo-3-Chloropropane	U	4.1	ug/Kgdrywt	1	5	4.1
1,2,4-Trimethylbenzene	U	4.1	ug/Kgdrywt	1	5	4.1
Naphthalene	E	340	ug/Kgdrywt	1	5	4.1
Hexachlorobutadiene	U	4.1	ug/Kgdrywt	1	5	4.1
1,2,3-Trichlorobenzene	U	4.1	ug/Kgdrywt	1	5	4.1
Methyl tert-butyl Ether	U	4.1	ug/Kgdrywt	1	5	4.1
Acetone		40	ug/Kgdrywt	1	25	20.
2-Butanone	U	20	ug/Kgdrywt	1	25	20.
4-Methyl-2-Pentanone		240	ug/Kgdrywt	1	25	20.
2-Hexanone	U	20	ug/Kgdrywt	1	25	20.
m+p-Xylenes	U	8.2	ug/Kgdrywt	1	10	8.2
o-Xylene	U	4.1	ug/Kgdrywt	1	5	4.1
Xylenes (Total)	U	12	ug/Kgdrywt	1	15	12.
1,3,5-Trichlorobenzene	U	4.1	ug/Kgdrywt	1	5	4.1
Vinyl Acetate	U	4.1	ug/Kgdrywt	1	5	4.1
Carbon Disulfide	U	4.1	ug/Kgdrywt	1	5	4.1
Diethyl Ether	U	4.1	ug/Kgdrywt	1	5	4.1

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Report of Analytical Results

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Lab ID: SI3835-1
Client ID: TP-105
Project: Mt. Vernon Ave/13-1069.2
SDG: SI3835
Lab File ID: W2989.D

Sample Date: 04-JUN-15
Received Date: 04-JUN-15
Extract Date: 09-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164441

Analysis Date: 09-JUN-15
Analyst: EME
Analysis Method: SW846 8260B
Matrix: SL
% Solids: 89.
Report Date: 17-JUN-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL
Tetrahydrofuran	U	41	ug/Kgdrywt	1	50	41.
Dibromofluoromethane		112.	%			
1,2-Dichloroethane-d4		102.	%			
Toluene-d8		105.	%			
P-Bromofluorobenzene	*	220.	%			

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Report of Analytical Results

Client: S. W. Cole Engineering, Inc.
Lab ID: SI3835-1DL
Client ID: TP-105
Project: Mt. Vernon Ave/13-1069.2
SDG: SI3835
Lab File ID: C3320.D

Sample Date: 04-JUN-15
Received Date: 04-JUN-15
Extract Date: 16-JUN-15
Extracted By: JSS
Extraction Method: SW846 5035
Lab Prep Batch: WG164923

Analysis Date: 16-JUN-15
Analyst: JSS
Analysis Method: SW846 8260B
Matrix: SL
% Solids: 89.
Report Date: 17-JUN-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL
Dichlorodifluoromethane	U	540	ug/Kgdrywt	1	10	540
Chloromethane	U	540	ug/Kgdrywt	1	10	540
Vinyl Chloride	U	540	ug/Kgdrywt	1	10	540
Bromomethane	U	540	ug/Kgdrywt	1	10	540
Chloroethane	U	540	ug/Kgdrywt	1	10	540
Trichlorofluoromethane	U	540	ug/Kgdrywt	1	10	540
1,1-Dichloroethene	U	270	ug/Kgdrywt	1	5	270
Methylene Chloride	U	1400	ug/Kgdrywt	1	25	1400
trans-1,2-Dichloroethene	U	270	ug/Kgdrywt	1	5	270
1,1-Dichloroethane	U	270	ug/Kgdrywt	1	5	270
cis-1,2-Dichloroethene	U	270	ug/Kgdrywt	1	5	270
1,2-Dichloroethylene (Total)	U	540	ug/Kgdrywt	1	10	540
2,2-Dichloropropane	U	270	ug/Kgdrywt	1	5	270
Chloroform	U	270	ug/Kgdrywt	1	5	270
Bromochloromethane	U	270	ug/Kgdrywt	1	5	270
1,1,1-Trichloroethane	U	270	ug/Kgdrywt	1	5	270
1,2-Dichloroethane	U	270	ug/Kgdrywt	1	5	270
1,1-Dichloropropene	U	270	ug/Kgdrywt	1	5	270
Carbon Tetrachloride	U	270	ug/Kgdrywt	1	5	270
Benzene	U	270	ug/Kgdrywt	1	5	270
1,2-Dichloropropane	U	270	ug/Kgdrywt	1	5	270
Trichloroethene	U	270	ug/Kgdrywt	1	5	270
Dibromomethane	U	270	ug/Kgdrywt	1	5	270
Bromodichloromethane	U	270	ug/Kgdrywt	1	5	270
cis-1,3-Dichloropropene	U	270	ug/Kgdrywt	1	5	270
Toluene	U	270	ug/Kgdrywt	1	5	270
trans-1,3-Dichloropropene	U	270	ug/Kgdrywt	1	5	270
1,1,2-Trichloroethane	U	270	ug/Kgdrywt	1	5	270
1,3-Dichloropropane	U	270	ug/Kgdrywt	1	5	270
Dibromochloromethane	U	270	ug/Kgdrywt	1	5	270
Tetrachloroethene	U	270	ug/Kgdrywt	1	5	270
1,2-Dibromoethane	U	270	ug/Kgdrywt	1	5	270
Chlorobenzene	U	270	ug/Kgdrywt	1	5	270
1,1,1,2-Tetrachloroethane	U	270	ug/Kgdrywt	1	5	270
Ethylbenzene	U	270	ug/Kgdrywt	1	5	270

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Lab Prep Batch: WG164923

Analysis Date: 16-JUN-15
Analyst: JSS
Analysis Method: SW846 8260B
Matrix: SL
% Solids: 89.
Report Date: 17-JUN-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL
Bromoform	U	270	ug/Kgdrywt	1	5	270
Styrene	U	270	ug/Kgdrywt	1	5	270
1,1,2,2-Tetrachloroethane	U	270	ug/Kgdrywt	1	5	270
1,2,3-Trichloropropane	U	270	ug/Kgdrywt	1	5	270
Isopropylbenzene	U	270	ug/Kgdrywt	1	5	270
Bromobenzene	U	270	ug/Kgdrywt	1	5	270
2-Chlorotoluene	U	270	ug/Kgdrywt	1	5	270
N-Propylbenzene	U	270	ug/Kgdrywt	1	5	270
4-Chlorotoluene	U	270	ug/Kgdrywt	1	5	270
1,3,5-Trimethylbenzene	U	270	ug/Kgdrywt	1	5	270
tert-Butylbenzene	U	270	ug/Kgdrywt	1	5	270
1,2,4-Trichlorobenzene	U	270	ug/Kgdrywt	1	5	270
sec-Butylbenzene		270	ug/Kgdrywt	1	5	270
1,3-Dichlorobenzene	U	270	ug/Kgdrywt	1	5	270
P-Isopropyltoluene	U	270	ug/Kgdrywt	1	5	270
1,4-Dichlorobenzene	U	270	ug/Kgdrywt	1	5	270
1,2-Dichlorobenzene	U	270	ug/Kgdrywt	1	5	270
N-Butylbenzene		290	ug/Kgdrywt	1	5	270
1,2-Dibromo-3-Chloropropane	U	270	ug/Kgdrywt	1	5	270
1,2,4-Trimethylbenzene	U	270	ug/Kgdrywt	1	5	270
Naphthalene		1200	ug/Kgdrywt	1	5	270
Hexachlorobutadiene	U	270	ug/Kgdrywt	1	5	270
1,2,3-Trichlorobenzene	U	270	ug/Kgdrywt	1	5	270
Methyl tert-butyl Ether	U	270	ug/Kgdrywt	1	5	270
Acetone	U	1400	ug/Kgdrywt	1	25	1400
2-Butanone	U	1400	ug/Kgdrywt	1	25	1400
4-Methyl-2-Pentanone	U	1400	ug/Kgdrywt	1	25	1400
2-Hexanone	U	1400	ug/Kgdrywt	1	25	1400
m+p-Xylenes	U	540	ug/Kgdrywt	1	10	540
o-Xylene	U	270	ug/Kgdrywt	1	5	270
Xylenes (Total)	U	820	ug/Kgdrywt	1	15	820
1,3,5-Trichlorobenzene	U	270	ug/Kgdrywt	1	5	270
Vinyl Acetate	U	270	ug/Kgdrywt	1	5	270
Carbon Disulfide	U	270	ug/Kgdrywt	1	5	270
Diethyl Ether	U	270	ug/Kgdrywt	1	5	270

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Report of Analytical Results

Client: S. W. Cole Engineering, Inc.
Lab ID: SI3835-1DL
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Project: Mt. Vernon Ave/13-1069.2
SDG: SI3835
Lab File ID: C3320.D

Sample Date: 04-JUN-15
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Extracted By: JSS
Extraction Method: SW846 5035
Lab Prep Batch: WG164923

Analysis Date: 16-JUN-15
Analyst: JSS
Analysis Method: SW846 8260B
Matrix: SL
% Solids: 89.
Report Date: 17-JUN-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL
Tetrahydrofuran	U	2700	ug/Kgdrywt	1	50	2700
Dibromofluoromethane		106.	%			
1,2-Dichloroethane-d4		113.	%			
Toluene-d8		111.	%			
P-Bromofluorobenzene	*	147.	%			

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Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
Project : Mt. Vernon Ave/13-1069.2
Lab File ID : C3310.D
Instrument ID : GCMS-C
Heated Purge : No

SDG : SI3835
Lab Sample ID : WG164923-9
Date Analyzed : 16-JUN-15
Time Analyzed : 15:34

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG164923-8	C3307.D	06/16/15	13:55
Methanol Blank	WG164923-11	C3311.D	06/16/15	16:03
TP-105	SI3835-1DL	C3320.D	06/16/15	20:32

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164923-9
Client ID: Method Blank Sample
Project:
SDG: SI3835
Lab File ID: C3310.D

Sample Date:
Received Date:
Extract Date: 16-JUN-15
Extracted By: JSS
Extraction Method: SW846 5030
Lab Prep Batch: WG164923

Analysis Date: 16-JUN-15
Analyst: JSS
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL
Dichlorodifluoromethane	U	10.	ug/L	1	10	10.
Chloromethane	U	10.	ug/L	1	10	10.
Vinyl Chloride	U	10.	ug/L	1	10	10.
Bromomethane	U	10.	ug/L	1	10	10.
Chloroethane	U	10.	ug/L	1	10	10.
Trichlorofluoromethane	U	10.	ug/L	1	10	10.
1,1-Dichloroethene	U	5.0	ug/L	1	5	5.0
Methylene Chloride	U	5.0	ug/L	1	5	5.0
trans-1,2-Dichloroethene	U	5.0	ug/L	1	5	5.0
1,1-Dichloroethane	U	5.0	ug/L	1	5	5.0
cis-1,2-Dichloroethene	U	5.0	ug/L	1	5	5.0
1,2-Dichloroethylene (Total)	U	10.	ug/L	1	10	10.
2,2-Dichloropropane	U	5.0	ug/L	1	5	5.0
Chloroform	U	5.0	ug/L	1	5	5.0
Bromochloromethane	U	5.0	ug/L	1	5	5.0
1,1,1-Trichloroethane	U	5.0	ug/L	1	5	5.0
1,2-Dichloroethane	U	5.0	ug/L	1	5	5.0
1,1-Dichloropropene	U	5.0	ug/L	1	5	5.0
Carbon Tetrachloride	U	5.0	ug/L	1	5	5.0
Benzene	U	5.0	ug/L	1	5	5.0
1,2-Dichloropropane	U	5.0	ug/L	1	5	5.0
Trichloroethene	U	5.0	ug/L	1	5	5.0
Dibromomethane	U	5.0	ug/L	1	5	5.0
Bromodichloromethane	U	5.0	ug/L	1	5	5.0
cis-1,3-Dichloropropene	U	5.0	ug/L	1	5	5.0
Toluene	U	5.0	ug/L	1	5	5.0
1,1,2-Trichloroethane	U	5.0	ug/L	1	5	5.0
trans-1,3-Dichloropropene	U	5.0	ug/L	1	5	5.0
1,3-Dichloropropane	U	5.0	ug/L	1	5	5.0
Dibromochloromethane	U	5.0	ug/L	1	5	5.0
Tetrachloroethene	U	5.0	ug/L	1	5	5.0
1,2-Dibromoethane	U	5.0	ug/L	1	5	5.0
Chlorobenzene	U	5.0	ug/L	1	5	5.0
1,1,1,2-Tetrachloroethane	U	5.0	ug/L	1	5	5.0

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Report of Analytical Results

Client:
Lab ID: WG164923-9
Client ID: Method Blank Sample
Project:
SDG: SI3835
Lab File ID: C3310.D

Sample Date:
Received Date:
Extract Date: 16-JUN-15
Extracted By: JSS
Extraction Method: SW846 5030
Lab Prep Batch: WG164923

Analysis Date: 16-JUN-15
Analyst: JSS
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL
Ethylbenzene	U	5.0	ug/L	1	5	5.0
Bromoform	U	5.0	ug/L	1	5	5.0
Styrene	U	5.0	ug/L	1	5	5.0
1,1,2,2-Tetrachloroethane	U	5.0	ug/L	1	5	5.0
1,2,3-Trichloropropane	U	5.0	ug/L	1	5	5.0
Isopropylbenzene	U	5.0	ug/L	1	5	5.0
Bromobenzene	U	5.0	ug/L	1	5	5.0
2-Chlorotoluene	U	5.0	ug/L	1	5	5.0
N-Propylbenzene	U	5.0	ug/L	1	5	5.0
4-Chlorotoluene	U	5.0	ug/L	1	5	5.0
1,3,5-Trimethylbenzene	U	5.0	ug/L	1	5	5.0
tert-Butylbenzene	U	5.0	ug/L	1	5	5.0
1,2,4-Trichlorobenzene	U	5.0	ug/L	1	5	5.0
sec-Butylbenzene	U	5.0	ug/L	1	5	5.0
1,3-Dichlorobenzene	U	5.0	ug/L	1	5	5.0
P-Isopropyltoluene	U	5.0	ug/L	1	5	5.0
1,4-Dichlorobenzene	U	5.0	ug/L	1	5	5.0
1,2-Dichlorobenzene	U	5.0	ug/L	1	5	5.0
N-Butylbenzene	U	5.0	ug/L	1	5	5.0
1,2-Dibromo-3-Chloropropane	U	5.0	ug/L	1	5	5.0
1,2,4-Trimethylbenzene	U	5.0	ug/L	1	5	5.0
Naphthalene	U	5.0	ug/L	1	5	5.0
Hexachlorobutadiene	U	5.0	ug/L	1	5	5.0
1,2,3-Trichlorobenzene	U	5.0	ug/L	1	5	5.0
Methyl tert-butyl Ether	U	5.0	ug/L	1	5	5.0
Acetone	U	25.	ug/L	1	25	25.
2-Butanone	U	25.	ug/L	1	25	25.
4-Methyl-2-Pentanone	U	25.	ug/L	1	25	25.
2-Hexanone	U	25.	ug/L	1	25	25.
m+p-Xylenes	U	10.	ug/L	1	10	10.
o-Xylene	U	5.0	ug/L	1	5	5.0
Xylenes (Total)	U	15.	ug/L	1	15	15.
1,3,5-Trichlorobenzene	U	5.0	ug/L	1	5	5.0
Vinyl Acetate	U	5.0	ug/L	1	5	5.0

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164923-9
Client ID: Method Blank Sample
Project:
SDG: SI3835
Lab File ID: C3310.D

Sample Date:
Received Date:
Extract Date: 16-JUN-15
Extracted By: JSS
Extraction Method: SW846 5030
Lab Prep Batch: WG164923

Analysis Date: 16-JUN-15
Analyst: JSS
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL
Carbon Disulfide	U	5.0	ug/L	1	5	5.0
Diethyl Ether	U	5.0	ug/L	1	5	5.0
Tetrahydrofuran	U	25.	ug/L	1	25	25.
Dibromofluoromethane		107.	%			
1,2-Dichloroethane-d4		110.	%			
Toluene-d8		111.	%			
P-Bromofluorobenzene		106.	%			

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Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164923-11
Client ID: Methanol Blank
Project:
SDG: SI3835
Lab File ID: C3311.D

Sample Date:
Received Date:
Extract Date: 16-JUN-15
Extracted By: JSS
Extraction Method: SW846 5030
Lab Prep Batch: WG164923

Analysis Date: 16-JUN-15
Analyst: JSS
Analysis Method: SW846 8260B
Matrix: SL
% Solids: NA
Report Date: 17-JUN-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL
Dichlorodifluoromethane	U	500	ug/Kgdrywt	1	10	500
Chloromethane	U	500	ug/Kgdrywt	1	10	500
Vinyl Chloride	U	500	ug/Kgdrywt	1	10	500
Bromomethane	U	500	ug/Kgdrywt	1	10	500
Chloroethane	U	500	ug/Kgdrywt	1	10	500
Trichlorofluoromethane	U	500	ug/Kgdrywt	1	10	500
1,1-Dichloroethene	U	250	ug/Kgdrywt	1	5	250
Methylene Chloride	U	1200	ug/Kgdrywt	1	25	1200
trans-1,2-Dichloroethene	U	250	ug/Kgdrywt	1	5	250
1,1-Dichloroethane	U	250	ug/Kgdrywt	1	5	250
cis-1,2-Dichloroethene	U	250	ug/Kgdrywt	1	5	250
1,2-Dichloroethylene (Total)	U	500	ug/Kgdrywt	1	10	500
2,2-Dichloropropane	U	250	ug/Kgdrywt	1	5	250
Chloroform	U	250	ug/Kgdrywt	1	5	250
Bromochloromethane	U	250	ug/Kgdrywt	1	5	250
1,1,1-Trichloroethane	U	250	ug/Kgdrywt	1	5	250
1,2-Dichloroethane	U	250	ug/Kgdrywt	1	5	250
1,1-Dichloropropene	U	250	ug/Kgdrywt	1	5	250
Carbon Tetrachloride	U	250	ug/Kgdrywt	1	5	250
Benzene	U	250	ug/Kgdrywt	1	5	250
1,2-Dichloropropane	U	250	ug/Kgdrywt	1	5	250
Trichloroethene	U	250	ug/Kgdrywt	1	5	250
Dibromomethane	U	250	ug/Kgdrywt	1	5	250
Bromodichloromethane	U	250	ug/Kgdrywt	1	5	250
cis-1,3-Dichloropropene	U	250	ug/Kgdrywt	1	5	250
Toluene	U	250	ug/Kgdrywt	1	5	250
trans-1,3-Dichloropropene	U	250	ug/Kgdrywt	1	5	250
1,1,2-Trichloroethane	U	250	ug/Kgdrywt	1	5	250
1,3-Dichloropropane	U	250	ug/Kgdrywt	1	5	250
Dibromochloromethane	U	250	ug/Kgdrywt	1	5	250
Tetrachloroethene	U	250	ug/Kgdrywt	1	5	250
1,2-Dibromoethane	U	250	ug/Kgdrywt	1	5	250
Chlorobenzene	U	250	ug/Kgdrywt	1	5	250
1,1,1,2-Tetrachloroethane	U	250	ug/Kgdrywt	1	5	250

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Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164923-11
Client ID: Methanol Blank
Project:
SDG: SI3835
Lab File ID: C3311.D

Sample Date:
Received Date:
Extract Date: 16-JUN-15
Extracted By: JSS
Extraction Method: SW846 5030
Lab Prep Batch: WG164923

Analysis Date: 16-JUN-15
Analyst: JSS
Analysis Method: SW846 8260B
Matrix: SL
% Solids: NA
Report Date: 17-JUN-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL
Ethylbenzene	U	250	ug/Kgdrywt	1	5	250
Bromoform	U	250	ug/Kgdrywt	1	5	250
Styrene	U	250	ug/Kgdrywt	1	5	250
1,1,2,2-Tetrachloroethane	U	250	ug/Kgdrywt	1	5	250
1,2,3-Trichloropropane	U	250	ug/Kgdrywt	1	5	250
Isopropylbenzene	U	250	ug/Kgdrywt	1	5	250
Bromobenzene	U	250	ug/Kgdrywt	1	5	250
2-Chlorotoluene	U	250	ug/Kgdrywt	1	5	250
N-Propylbenzene	U	250	ug/Kgdrywt	1	5	250
4-Chlorotoluene	U	250	ug/Kgdrywt	1	5	250
1,3,5-Trimethylbenzene	U	250	ug/Kgdrywt	1	5	250
tert-Butylbenzene	U	250	ug/Kgdrywt	1	5	250
1,2,4-Trichlorobenzene	U	250	ug/Kgdrywt	1	5	250
sec-Butylbenzene	U	250	ug/Kgdrywt	1	5	250
1,3-Dichlorobenzene	U	250	ug/Kgdrywt	1	5	250
P-Isopropyltoluene	U	250	ug/Kgdrywt	1	5	250
1,4-Dichlorobenzene	U	250	ug/Kgdrywt	1	5	250
1,2-Dichlorobenzene	U	250	ug/Kgdrywt	1	5	250
N-Butylbenzene	U	250	ug/Kgdrywt	1	5	250
1,2-Dibromo-3-Chloropropane	U	250	ug/Kgdrywt	1	5	250
1,2,4-Trimethylbenzene	U	250	ug/Kgdrywt	1	5	250
Naphthalene	U	250	ug/Kgdrywt	1	5	250
Hexachlorobutadiene	U	250	ug/Kgdrywt	1	5	250
1,2,3-Trichlorobenzene	U	250	ug/Kgdrywt	1	5	250
Methyl tert-butyl Ether	U	250	ug/Kgdrywt	1	5	250
Acetone	U	1200	ug/Kgdrywt	1	25	1200
2-Butanone	U	1200	ug/Kgdrywt	1	25	1200
4-Methyl-2-Pentanone	U	1200	ug/Kgdrywt	1	25	1200
2-Hexanone	U	1200	ug/Kgdrywt	1	25	1200
m+p-Xylenes	U	500	ug/Kgdrywt	1	10	500
o-Xylene	U	250	ug/Kgdrywt	1	5	250
Xylenes (Total)	U	750	ug/Kgdrywt	1	15	750
1,3,5-Trichlorobenzene	U	250	ug/Kgdrywt	1	5	250
Vinyl Acetate	U	250	ug/Kgdrywt	1	5	250

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164923-11
Client ID: Methanol Blank
Project:
SDG: SI3835
Lab File ID: C3311.D

Sample Date:
Received Date:
Extract Date: 16-JUN-15
Extracted By: JSS
Extraction Method: SW846 5030
Lab Prep Batch: WG164923

Analysis Date: 16-JUN-15
Analyst: JSS
Analysis Method: SW846 8260B
Matrix: SL
% Solids: NA
Report Date: 17-JUN-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL
Carbon Disulfide	U	250	ug/Kgdrywt	1	5	250
Diethyl Ether	U	250	ug/Kgdrywt	1	5	250
Tetrahydrofuran	U	2500	ug/Kgdrywt	1	50	2500
Dibromofluoromethane		108.	%			
1,2-Dichloroethane-d4		109.	%			
Toluene-d8		110.	%			
P-Bromofluorobenzene		108.	%			

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ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG164923-8
Client ID: LCS
Project:
SDG: SI3835
LCS File ID: C3307.D

Sample Date:
Received Date:
Extract Date: 16-JUN-15
Extracted By: JSS
Extraction Method: SW846 5030
Lab Prep Batch: WG164923

Analysis Date: 16-JUN-15
Analyst: JSS
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	136.	50.0	68.2	ug/L	29-164
Chloromethane	* 130.	50.0	65.1	ug/L	59-123
Vinyl Chloride	115.	50.0	57.3	ug/L	64-131
Bromomethane	120.	50.0	60.0	ug/L	57-135
Chloroethane	67.4	50.0	33.7	ug/L	53-157
Trichlorofluoromethane	105.	50.0	52.5	ug/L	70-149
1,1-Dichloroethene	103.	50.0	51.6	ug/L	88-127
Methylene Chloride	101.	50.0	50.6	ug/L	72-129
trans-1,2-Dichloroethene	109.	50.0	54.3	ug/L	78-125
1,1-Dichloroethane	107.	50.0	53.3	ug/L	76-130
cis-1,2-Dichloroethene	95.0	50.0	47.5	ug/L	85-123
1,2-Dichloroethylene (Total)	102.	100.	102.	ug/L	84-121
2,2-Dichloropropane	106.	50.0	53.2	ug/L	70-132
Chloroform	101.	50.0	50.7	ug/L	78-128
Bromochloromethane	107.	50.0	53.3	ug/L	85-117
1,1,1-Trichloroethane	103.	50.0	51.3	ug/L	77-129
1,2-Dichloroethane	97.0	50.0	48.5	ug/L	81-125
1,1-Dichloropropene	103.	50.0	51.6	ug/L	87-118
Carbon Tetrachloride	103.	50.0	51.3	ug/L	87-126
Benzene	102.	50.0	50.8	ug/L	86-116
1,2-Dichloropropane	101.	50.0	50.7	ug/L	84-118
Trichloroethene	99.8	50.0	49.9	ug/L	79-121
Dibromomethane	99.8	50.0	49.9	ug/L	85-117
Bromodichloromethane	103.	50.0	51.6	ug/L	85-122
cis-1,3-Dichloropropene	107.	50.0	53.6	ug/L	83-119
Toluene	100.	50.0	50.0	ug/L	84-118
1,1,2-Trichloroethane	98.2	50.0	49.1	ug/L	84-115
trans-1,3-Dichloropropene	112.	50.0	56.0	ug/L	85-135
1,3-Dichloropropane	97.8	50.0	48.9	ug/L	80-119
Dibromochloromethane	105.	50.0	52.6	ug/L	85-119
Tetrachloroethene	104.	50.0	52.0	ug/L	47-155
1,2-Dibromoethane	102.	50.0	51.1	ug/L	84-116
Chlorobenzene	101.	50.0	50.5	ug/L	89-113
1,1,1,2-Tetrachloroethane	105.	50.0	52.3	ug/L	88-118
Ethylbenzene	102.	50.0	51.0	ug/L	88-113

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ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG164923-8
Client ID: LCS
Project:
SDG: SI3835
LCS File ID: C3307.D

Sample Date:
Received Date:
Extract Date: 16-JUN-15
Extracted By: JSS
Extraction Method: SW846 5030
Lab Prep Batch: WG164923

Analysis Date: 16-JUN-15
Analyst: JSS
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Bromoform	99.0	50.0	49.5	ug/L	86-117
Styrene	104.	50.0	52.1	ug/L	88-117
1,1,2,2-Tetrachloroethane	95.0	50.0	47.5	ug/L	79-121
1,2,3-Trichloropropane	96.6	50.0	48.3	ug/L	77-120
Isopropylbenzene	108.	50.0	54.1	ug/L	96-136
Bromobenzene	101.	50.0	50.6	ug/L	84-113
2-Chlorotoluene	103.	50.0	51.5	ug/L	81-120
N-Propylbenzene	108.	50.0	54.1	ug/L	83-121
4-Chlorotoluene	102.	50.0	51.2	ug/L	81-122
1,3,5-Trimethylbenzene	104.	50.0	52.0	ug/L	80-123
tert-Butylbenzene	106.	50.0	52.8	ug/L	84-121
1,2,4-Trichlorobenzene	97.6	50.0	48.8	ug/L	76-126
sec-Butylbenzene	107.	50.0	53.6	ug/L	82-122
1,3-Dichlorobenzene	101.	50.0	50.5	ug/L	86-110
P-Isopropyltoluene	108.	50.0	54.2	ug/L	88-121
1,4-Dichlorobenzene	98.4	50.0	49.2	ug/L	86-111
1,2-Dichlorobenzene	102.	50.0	50.8	ug/L	86-112
N-Butylbenzene	105.	50.0	52.7	ug/L	78-121
1,2-Dibromo-3-Chloropropane	106.	50.0	52.9	ug/L	67-124
1,2,4-Trimethylbenzene	108.	50.0	53.9	ug/L	83-118
Naphthalene	111.	50.0	55.5	ug/L	62-126
Hexachlorobutadiene	96.6	50.0	48.3	ug/L	73-113
1,2,3-Trichlorobenzene	94.4	50.0	47.2	ug/L	70-122
Methyl tert-butyl Ether	103.	100.	103.	ug/L	81-125
Acetone	128.	50.0	63.9	ug/L	62-172
2-Butanone	* 137.	50.0	68.3	ug/L	71-132
4-Methyl-2-Pentanone	* 128.	50.0	63.8	ug/L	83-122
2-Hexanone	* 128.	50.0	64.0	ug/L	80-124
m+p-Xylenes	105.	100.	105.	ug/L	88-116
o-Xylene	104.	50.0	51.8	ug/L	90-116
Xylenes (Total)	104.	150.	156.	ug/L	89-116
1,3,5-Trichlorobenzene	96.6	50.0	48.3	ug/L	77-120
Vinyl Acetate	103.	50.0	51.3	ug/L	56-129
Carbon Disulfide	103.	50.0	51.3	ug/L	71-129
Diethyl Ether	95.0	50.0	47.5	ug/L	78-124

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LCS Recovery Report

Client:
Lab ID: WG164923-8
Client ID: LCS
Project:
SDG: SI3835
LCS File ID: C3307.D

Sample Date:
Received Date:
Extract Date: 16-JUN-15
Extracted By: JSS
Extraction Method: SW846 5030
Lab Prep Batch: WG164923

Analysis Date: 16-JUN-15
Analyst: JSS
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Tetrahydrofuran	* 133.	50.0	66.4	ug/L	74-123
Dibromofluoromethane	98.5				68-128
1,2-Dichloroethane-d4	95.7				67-135
Toluene-d8	102.				65-128
P-Bromofluorobenzene	100.				56-133

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Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
Project : Mt. Vernon Ave/13-1069.2
Lab File ID : W2976.D
Instrument ID : GCMS-W
Heated Purge : Yes

SDG : SI3835
Lab Sample ID : WG164441-2
Date Analyzed : 09-JUN-15
Time Analyzed : 12:04

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG164441-1	W2973.D	06/09/15	10:11
TP-105	SI3835-1	W2989.D	06/09/15	19:01

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Report of Analytical Results

Client:
Lab ID: WG164441-2
Client ID: Method Blank Sample
Project:
SDG: SI3835
Lab File ID: W2976.D

Sample Date:
Received Date:
Extract Date: 09-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164441

Analysis Date: 09-JUN-15
Analyst: EME
Analysis Method: SW846 8260B
Matrix: SL
% Solids: NA
Report Date: 17-JUN-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL
Dichlorodifluoromethane	U	10	ug/Kgdrywt	1	10	10.
Chloromethane	U	10	ug/Kgdrywt	1	10	10.
Vinyl Chloride	U	10	ug/Kgdrywt	1	10	10.
Bromomethane	U	10	ug/Kgdrywt	1	10	10.
Chloroethane	U	10	ug/Kgdrywt	1	10	10.
Trichlorofluoromethane	U	10	ug/Kgdrywt	1	10	10.
1,1-Dichloroethene	U	5.0	ug/Kgdrywt	1	5	5.0
Methylene Chloride	U	25	ug/Kgdrywt	1	25	25.
trans-1,2-Dichloroethene	U	5.0	ug/Kgdrywt	1	5	5.0
1,1-Dichloroethane	U	5.0	ug/Kgdrywt	1	5	5.0
cis-1,2-Dichloroethene	U	5.0	ug/Kgdrywt	1	5	5.0
1,2-Dichloroethylene (Total)	U	10	ug/Kgdrywt	1	10	10.
2,2-Dichloropropane	U	5.0	ug/Kgdrywt	1	5	5.0
Chloroform	U	5.0	ug/Kgdrywt	1	5	5.0
Bromochloromethane	U	5.0	ug/Kgdrywt	1	5	5.0
1,1,1-Trichloroethane	U	5.0	ug/Kgdrywt	1	5	5.0
1,2-Dichloroethane	U	5.0	ug/Kgdrywt	1	5	5.0
1,1-Dichloropropene	U	5.0	ug/Kgdrywt	1	5	5.0
Carbon Tetrachloride	U	5.0	ug/Kgdrywt	1	5	5.0
Benzene	U	5.0	ug/Kgdrywt	1	5	5.0
1,2-Dichloropropane	U	5.0	ug/Kgdrywt	1	5	5.0
Trichloroethene	U	5.0	ug/Kgdrywt	1	5	5.0
Dibromomethane	U	5.0	ug/Kgdrywt	1	5	5.0
Bromodichloromethane	U	5.0	ug/Kgdrywt	1	5	5.0
cis-1,3-Dichloropropene	U	5.0	ug/Kgdrywt	1	5	5.0
Toluene	U	5.0	ug/Kgdrywt	1	5	5.0
trans-1,3-Dichloropropene	U	5.0	ug/Kgdrywt	1	5	5.0
1,1,2-Trichloroethane	U	5.0	ug/Kgdrywt	1	5	5.0
1,3-Dichloropropane	U	5.0	ug/Kgdrywt	1	5	5.0
Dibromochloromethane	U	5.0	ug/Kgdrywt	1	5	5.0
Tetrachloroethene	U	5.0	ug/Kgdrywt	1	5	5.0
1,2-Dibromoethane	U	5.0	ug/Kgdrywt	1	5	5.0
Chlorobenzene	U	5.0	ug/Kgdrywt	1	5	5.0
1,1,1,2-Tetrachloroethane	U	5.0	ug/Kgdrywt	1	5	5.0

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164441-2
Client ID: Method Blank Sample
Project:
SDG: SI3835
Lab File ID: W2976.D

Sample Date:
Received Date:
Extract Date: 09-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164441

Analysis Date: 09-JUN-15
Analyst: EME
Analysis Method: SW846 8260B
Matrix: SL
% Solids: NA
Report Date: 17-JUN-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL
Ethylbenzene	U	5.0	ug/Kgdrywt	1	5	5.0
Bromoform	U	5.0	ug/Kgdrywt	1	5	5.0
Styrene	U	5.0	ug/Kgdrywt	1	5	5.0
1,1,2,2-Tetrachloroethane	U	5.0	ug/Kgdrywt	1	5	5.0
1,2,3-Trichloropropane	U	5.0	ug/Kgdrywt	1	5	5.0
Isopropylbenzene	U	5.0	ug/Kgdrywt	1	5	5.0
Bromobenzene	U	5.0	ug/Kgdrywt	1	5	5.0
2-Chlorotoluene	U	5.0	ug/Kgdrywt	1	5	5.0
N-Propylbenzene	U	5.0	ug/Kgdrywt	1	5	5.0
4-Chlorotoluene	U	5.0	ug/Kgdrywt	1	5	5.0
1,3,5-Trimethylbenzene	U	5.0	ug/Kgdrywt	1	5	5.0
tert-Butylbenzene	U	5.0	ug/Kgdrywt	1	5	5.0
1,2,4-Trichlorobenzene	U	5.0	ug/Kgdrywt	1	5	5.0
sec-Butylbenzene	U	5.0	ug/Kgdrywt	1	5	5.0
1,3-Dichlorobenzene	U	5.0	ug/Kgdrywt	1	5	5.0
P-Isopropyltoluene	U	5.0	ug/Kgdrywt	1	5	5.0
1,4-Dichlorobenzene	U	5.0	ug/Kgdrywt	1	5	5.0
1,2-Dichlorobenzene	U	5.0	ug/Kgdrywt	1	5	5.0
N-Butylbenzene	U	5.0	ug/Kgdrywt	1	5	5.0
1,2-Dibromo-3-Chloropropane	U	5.0	ug/Kgdrywt	1	5	5.0
1,2,4-Trimethylbenzene	U	5.0	ug/Kgdrywt	1	5	5.0
Naphthalene	U	5.0	ug/Kgdrywt	1	5	5.0
Hexachlorobutadiene	U	5.0	ug/Kgdrywt	1	5	5.0
1,2,3-Trichlorobenzene	U	5.0	ug/Kgdrywt	1	5	5.0
Methyl tert-butyl Ether	U	5.0	ug/Kgdrywt	1	5	5.0
Acetone	U	25	ug/Kgdrywt	1	25	25.
2-Butanone	U	25	ug/Kgdrywt	1	25	25.
4-Methyl-2-Pentanone	U	25	ug/Kgdrywt	1	25	25.
2-Hexanone	U	25	ug/Kgdrywt	1	25	25.
m+p-Xylenes	U	10	ug/Kgdrywt	1	10	10.
o-Xylene	U	5.0	ug/Kgdrywt	1	5	5.0
Xylenes (Total)	U	15	ug/Kgdrywt	1	15	15.
1,3,5-Trichlorobenzene	U	5.0	ug/Kgdrywt	1	5	5.0
Vinyl Acetate	U	5.0	ug/Kgdrywt	1	5	5.0

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164441-2
Client ID: Method Blank Sample
Project:
SDG: SI3835
Lab File ID: W2976.D

Sample Date:
Received Date:
Extract Date: 09-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164441

Analysis Date: 09-JUN-15
Analyst: EME
Analysis Method: SW846 8260B
Matrix: SL
% Solids: NA
Report Date: 17-JUN-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL
Carbon Disulfide	U	5.0	ug/Kgdrywt	1	5	5.0
Diethyl Ether	U	5.0	ug/Kgdrywt	1	5	5.0
Tetrahydrofuran	U	50	ug/Kgdrywt	1	50	50.
Dibromofluoromethane		103.	%			
1,2-Dichloroethane-d4		94.2	%			
Toluene-d8		89.0	%			
P-Bromofluorobenzene		81.1	%			

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG164441-1
Client ID: LCS
Project:
SDG: SI3835
LCS File ID: W2973.D

Sample Date:
Received Date:
Extract Date: 09-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164441

Analysis Date: 09-JUN-15
Analyst: EME
Analysis Method: SW846 8260B
Matrix: SL
% Solids: NA
Report Date: 17-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	107.	50.0	53.3	ug/Kgdrywt	45-167
Chloromethane	101.	50.0	50.6	ug/Kgdrywt	69-127
Vinyl Chloride	110.	50.0	55.1	ug/Kgdrywt	73-134
Bromomethane	98.4	50.0	49.2	ug/Kgdrywt	64-136
Chloroethane	73.8	50.0	36.9	ug/Kgdrywt	71-127
Trichlorofluoromethane	* 40.4	50.0	20.2	ug/Kgdrywt	73-145
1,1-Dichloroethene	108.	50.0	54.2	ug/Kgdrywt	71-137
Methylene Chloride	102.	50.0	50.9	ug/Kgdrywt	56-152
trans-1,2-Dichloroethene	106.	50.0	53.0	ug/Kgdrywt	67-133
1,1-Dichloroethane	101.	50.0	50.6	ug/Kgdrywt	75-126
cis-1,2-Dichloroethene	108.	50.0	54.0	ug/Kgdrywt	82-123
1,2-Dichloroethylene (Total)	107.	100.	107.	ug/Kgdrywt	82-120
2,2-Dichloropropane	114.	50.0	57.2	ug/Kgdrywt	78-124
Chloroform	101.	50.0	50.4	ug/Kgdrywt	83-118
Bromochloromethane	109.	50.0	54.6	ug/Kgdrywt	84-115
1,1,1-Trichloroethane	103.	50.0	51.7	ug/Kgdrywt	80-120
1,2-Dichloroethane	83.8	50.0	41.9	ug/Kgdrywt	83-121
1,1-Dichloropropene	102.	50.0	50.9	ug/Kgdrywt	81-119
Carbon Tetrachloride	96.4	50.0	48.2	ug/Kgdrywt	78-124
Benzene	96.8	50.0	48.4	ug/Kgdrywt	82-113
1,2-Dichloropropane	95.0	50.0	47.5	ug/Kgdrywt	84-115
Trichloroethene	102.	50.0	50.9	ug/Kgdrywt	83-113
Dibromomethane	88.8	50.0	44.4	ug/Kgdrywt	85-118
Bromodichloromethane	92.6	50.0	46.3	ug/Kgdrywt	82-118
cis-1,3-Dichloropropene	90.0	50.0	45.0	ug/Kgdrywt	80-115
Toluene	97.0	50.0	48.5	ug/Kgdrywt	80-113
trans-1,3-Dichloropropene	96.4	50.0	48.2	ug/Kgdrywt	87-136
1,1,2-Trichloroethane	95.8	50.0	47.9	ug/Kgdrywt	78-117
1,3-Dichloropropane	87.8	50.0	43.9	ug/Kgdrywt	80-114
Dibromochloromethane	93.0	50.0	46.5	ug/Kgdrywt	80-120
Tetrachloroethene	109.	50.0	54.7	ug/Kgdrywt	73-122
1,2-Dibromoethane	97.2	50.0	48.6	ug/Kgdrywt	81-119
Chlorobenzene	99.4	50.0	49.7	ug/Kgdrywt	85-111
1,1,1,2-Tetrachloroethane	97.4	50.0	48.7	ug/Kgdrywt	83-114
Ethylbenzene	92.2	50.0	46.1	ug/Kgdrywt	81-112

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ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG164441-1
Client ID: LCS
Project:
SDG: SI3835
LCS File ID: W2973.D

Sample Date:
Received Date:
Extract Date: 09-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164441

Analysis Date: 09-JUN-15
Analyst: EME
Analysis Method: SW846 8260B
Matrix: SL
% Solids: NA
Report Date: 17-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Bromoform	106.	50.0	52.9	ug/Kgdrywt	76-126
Styrene	91.0	50.0	45.5	ug/Kgdrywt	84-112
1,1,2,2-Tetrachloroethane	94.2	50.0	47.1	ug/Kgdrywt	78-122
1,2,3-Trichloropropane	90.2	50.0	45.1	ug/Kgdrywt	81-118
Isopropylbenzene	101.	50.0	50.5	ug/Kgdrywt	89-136
Bromobenzene	105.	50.0	52.3	ug/Kgdrywt	78-118
2-Chlorotoluene	97.0	50.0	48.5	ug/Kgdrywt	78-118
N-Propylbenzene	102.	50.0	51.0	ug/Kgdrywt	77-121
4-Chlorotoluene	100.	50.0	50.2	ug/Kgdrywt	77-121
1,3,5-Trimethylbenzene	87.8	50.0	43.9	ug/Kgdrywt	79-116
tert-Butylbenzene	102.	50.0	50.9	ug/Kgdrywt	79-118
1,2,4-Trichlorobenzene	108.	50.0	54.2	ug/Kgdrywt	61-135
sec-Butylbenzene	97.6	50.0	48.8	ug/Kgdrywt	75-122
1,3-Dichlorobenzene	109.	50.0	54.7	ug/Kgdrywt	79-119
P-Isopropyltoluene	102.	50.0	50.9	ug/Kgdrywt	80-124
1,4-Dichlorobenzene	99.0	50.0	49.5	ug/Kgdrywt	80-117
1,2-Dichlorobenzene	108.	50.0	54.2	ug/Kgdrywt	76-118
N-Butylbenzene	93.4	50.0	46.7	ug/Kgdrywt	70-124
1,2-Dibromo-3-Chloropropane	92.6	50.0	46.3	ug/Kgdrywt	66-132
1,2,4-Trimethylbenzene	89.4	50.0	44.7	ug/Kgdrywt	76-115
Naphthalene	97.6	50.0	48.8	ug/Kgdrywt	51-131
Hexachlorobutadiene	107.	50.0	53.6	ug/Kgdrywt	69-120
1,2,3-Trichlorobenzene	99.4	50.0	49.7	ug/Kgdrywt	55-134
Methyl tert-butyl Ether	88.5	100.	88.5	ug/Kgdrywt	81-125
Acetone	112.	50.0	55.9	ug/Kgdrywt	76-213
2-Butanone	* 153.	50.0	76.6	ug/Kgdrywt	78-148
4-Methyl-2-Pentanone	99.6	50.0	49.8	ug/Kgdrywt	75-137
2-Hexanone	132.	50.0	65.9	ug/Kgdrywt	72-149
m+p-Xylenes	96.9	100.	96.9	ug/Kgdrywt	80-115
o-Xylene	102.	50.0	51.2	ug/Kgdrywt	82-115
Xylenes (Total)	98.7	150.	148.	ug/Kgdrywt	81-114
1,3,5-Trichlorobenzene	117.	50.0	58.6	ug/Kgdrywt	64-133
Vinyl Acetate	84.4	50.0	42.2	ug/Kgdrywt	77-119
Carbon Disulfide	111.	50.0	55.4	ug/Kgdrywt	69-138
Diethyl Ether	78.8	50.0	39.4	ug/Kgdrywt	76-135

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ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG164441-1
Client ID: LCS
Project:
SDG: SI3835
LCS File ID: W2973.D

Sample Date:
Received Date:
Extract Date: 09-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164441

Analysis Date: 09-JUN-15
Analyst: EME
Analysis Method: SW846 8260B
Matrix: SL
% Solids: NA
Report Date: 17-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Tetrahydrofuran	106.	50.0	53.1	ug/Kgdrywt	78-137
Dibromofluoromethane	96.0				64-130
1,2-Dichloroethane-d4	82.7				58-134
Toluene-d8	87.5				67-118
P-Bromofluorobenzene	86.2				47-119

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: S. W. Cole Engineering, Inc.
Lab ID: SI3835-1
Client ID: TP-105
Project: Mt. Vernon Ave/13-1069.2
SDG: SI3835
Lab File ID: U0631.D

Sample Date: 04-JUN-15
Received Date: 04-JUN-15
Extract Date: 08-JUN-15
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG164373

Analysis Date: 09-JUN-15
Analyst: JCG
Analysis Method: SW846 8270C
Matrix: SL
% Solids: 89.
Report Date: 10-JUN-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL
Phenol	U	350	ug/Kgdrywt	1	330	350
Bis(2-Chloroethyl)Ether	U	350	ug/Kgdrywt	1	330	350
2-Chlorophenol	U	350	ug/Kgdrywt	1	330	350
1,3-Dichlorobenzene	U	350	ug/Kgdrywt	1	330	350
1,4-Dichlorobenzene	U	350	ug/Kgdrywt	1	330	350
1,2-Dichlorobenzene	U	350	ug/Kgdrywt	1	330	350
2-Methylphenol	U	350	ug/Kgdrywt	1	330	350
2,2'-Oxybis(1-Chloropropane)	U	350	ug/Kgdrywt	1	330	350
3&4-Methylphenol	U	350	ug/Kgdrywt	1	330	350
N-Nitroso-Di-N-Propylamine	U	350	ug/Kgdrywt	1	330	350
Hexachloroethane	U	350	ug/Kgdrywt	1	330	350
Nitrobenzene	U	350	ug/Kgdrywt	1	330	350
Isophorone	U	350	ug/Kgdrywt	1	330	350
2-Nitrophenol	U	350	ug/Kgdrywt	1	330	350
2,4-Dimethylphenol	U	350	ug/Kgdrywt	1	330	350
Bis(2-Chloroethoxy)Methane	U	350	ug/Kgdrywt	1	330	350
2,4-Dichlorophenol	U	350	ug/Kgdrywt	1	330	350
1,2,4-Trichlorobenzene	U	350	ug/Kgdrywt	1	330	350
Naphthalene		430	ug/Kgdrywt	1	330	350
4-Chloroaniline	U	350	ug/Kgdrywt	1	330	350
Hexachlorobutadiene	U	350	ug/Kgdrywt	1	330	350
4-Chloro-3-Methylphenol	U	350	ug/Kgdrywt	1	330	350
2-Methylnaphthalene		1100	ug/Kgdrywt	1	330	350
Hexachlorocyclopentadiene	U	350	ug/Kgdrywt	1	330	350
2,4,6-Trichlorophenol	U	350	ug/Kgdrywt	1	330	350
2,4,5-Trichlorophenol	U	870	ug/Kgdrywt	1	820	870
2-Chloronaphthalene	U	350	ug/Kgdrywt	1	330	350
2-Nitroaniline	U	870	ug/Kgdrywt	1	820	870
Dimethyl Phthalate	U	350	ug/Kgdrywt	1	330	350
Acenaphthylene	U	350	ug/Kgdrywt	1	330	350
2,6-Dinitrotoluene	U	350	ug/Kgdrywt	1	330	350
3-Nitroaniline	U	870	ug/Kgdrywt	1	820	870
Acenaphthene	U	350	ug/Kgdrywt	1	330	350
2,4-Dinitrophenol	U	870	ug/Kgdrywt	1	820	870
4-Nitrophenol	U	870	ug/Kgdrywt	1	820	870

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Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Report of Analytical Results

Client: S. W. Cole Engineering, Inc.
Lab ID: SI3835-1
Client ID: TP-105
Project: Mt. Vernon Ave/13-1069.2
SDG: SI3835
Lab File ID: U0631.D

Sample Date: 04-JUN-15
Received Date: 04-JUN-15
Extract Date: 08-JUN-15
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG164373

Analysis Date: 09-JUN-15
Analyst: JCG
Analysis Method: SW846 8270C
Matrix: SL
% Solids: 89.
Report Date: 10-JUN-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL
Dibenzofuran	U	350	ug/Kgdrywt	1	330	350
2,4-Dinitrotoluene	U	350	ug/Kgdrywt	1	330	350
Diethylphthalate	U	350	ug/Kgdrywt	1	330	350
4-Chlorophenyl-Phenylether	U	350	ug/Kgdrywt	1	330	350
Fluorene		800	ug/Kgdrywt	1	330	350
4-Nitroaniline	U	870	ug/Kgdrywt	1	820	870
4,6-Dinitro-2-Methylphenol	U	870	ug/Kgdrywt	1	820	870
N-Nitrosodiphenylamine	U	350	ug/Kgdrywt	1	330	350
4-Bromophenyl-Phenylether	U	350	ug/Kgdrywt	1	330	350
Hexachlorobenzene	U	350	ug/Kgdrywt	1	330	350
Pentachlorophenol	U	870	ug/Kgdrywt	1	820	870
Phenanthrene		2800	ug/Kgdrywt	1	330	350
Anthracene	U	350	ug/Kgdrywt	1	330	350
Carbazole	U	350	ug/Kgdrywt	1	330	350
Di-N-Butylphthalate	U	350	ug/Kgdrywt	1	330	350
Fluoranthene		690	ug/Kgdrywt	1	330	350
Pyrene		520	ug/Kgdrywt	1	330	350
Butylbenzylphthalate	U	350	ug/Kgdrywt	1	330	350
3,3'-Dichlorobenzidine	U	350	ug/Kgdrywt	1	330	350
Benzo(a)anthracene	U	350	ug/Kgdrywt	1	330	350
Chrysene	U	350	ug/Kgdrywt	1	330	350
Bis(2-Ethylhexyl)Phthalate	U	350	ug/Kgdrywt	1	330	350
Di-N-Octylphthalate	U	350	ug/Kgdrywt	1	330	350
Benzo(b)fluoranthene	U	350	ug/Kgdrywt	1	330	350
Benzo(k)fluoranthene	U	350	ug/Kgdrywt	1	330	350
Benzo(a)pyrene	U	350	ug/Kgdrywt	1	330	350
Indeno(1,2,3-cd)pyrene	U	350	ug/Kgdrywt	1	330	350
Dibenzo(a,h)anthracene	U	350	ug/Kgdrywt	1	330	350
Benzo(g,h,i)perylene	U	350	ug/Kgdrywt	1	330	350
2-Fluorophenol		70.2				
Phenol-d6		78.1				
Nitrobenzene-d5		78.0				
2-Fluorobiphenyl	*	89.0				
2,4,6-Tribromophenol		56.0				
Terphenyl-d14		109.				

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Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : Mt. Vernon Ave/13-1069.2
Lab File ID : U0619.D
Instrument ID : GCMS-U
Matrix : SL

SDG : SI3835
Lab Sample ID : WG164373-1
Date Extracted : 08-JUN-15
Date Analyzed : 09-JUN-15
Time Analyzed : 13:30

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG164373-2	U0620.D	06/09/15	13:58
Laboratory Control S	WG164373-3	U0621.D	06/09/15	14:26
TP-105	SI3835-1	U0631.D	06/09/15	19:04

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164373-1
Client ID: Method Blank Sample
Project:
SDG: SI3835
Lab File ID: U0619.D

Sample Date:
Received Date:
Extract Date: 08-JUN-15
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG164373

Analysis Date: 09-JUN-15
Analyst: JCG
Analysis Method: SW846 8270C
Matrix: SL
% Solids: NA
Report Date: 10-JUN-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL
Phenol	U	330	ug/Kgdrywt	1	330	330
Bis(2-Chloroethyl)Ether	U	330	ug/Kgdrywt	1	330	330
2-Chlorophenol	U	330	ug/Kgdrywt	1	330	330
1,3-Dichlorobenzene	U	330	ug/Kgdrywt	1	330	330
1,4-Dichlorobenzene	U	330	ug/Kgdrywt	1	330	330
1,2-Dichlorobenzene	U	330	ug/Kgdrywt	1	330	330
2-Methylphenol	U	330	ug/Kgdrywt	1	330	330
2,2'-Oxybis(1-Chloropropane)	U	330	ug/Kgdrywt	1	330	330
3&4-Methylphenol	U	330	ug/Kgdrywt	1	330	330
N-Nitroso-Di-N-Propylamine	U	330	ug/Kgdrywt	1	330	330
Hexachloroethane	U	330	ug/Kgdrywt	1	330	330
Nitrobenzene	U	330	ug/Kgdrywt	1	330	330
Isophorone	U	330	ug/Kgdrywt	1	330	330
2-Nitrophenol	U	330	ug/Kgdrywt	1	330	330
2,4-Dimethylphenol	U	330	ug/Kgdrywt	1	330	330
Bis(2-Chloroethoxy)Methane	U	330	ug/Kgdrywt	1	330	330
2,4-Dichlorophenol	U	330	ug/Kgdrywt	1	330	330
1,2,4-Trichlorobenzene	U	330	ug/Kgdrywt	1	330	330
Naphthalene	U	330	ug/Kgdrywt	1	330	330
4-Chloroaniline	U	330	ug/Kgdrywt	1	330	330
Hexachlorobutadiene	U	330	ug/Kgdrywt	1	330	330
4-Chloro-3-Methylphenol	U	330	ug/Kgdrywt	1	330	330
2-Methylnaphthalene	U	330	ug/Kgdrywt	1	330	330
Hexachlorocyclopentadiene	U	330	ug/Kgdrywt	1	330	330
2,4,6-Trichlorophenol	U	330	ug/Kgdrywt	1	330	330
2,4,5-Trichlorophenol	U	820	ug/Kgdrywt	1	820	820
2-Chloronaphthalene	U	330	ug/Kgdrywt	1	330	330
2-Nitroaniline	U	820	ug/Kgdrywt	1	820	820
Dimethyl Phthalate	U	330	ug/Kgdrywt	1	330	330
Acenaphthylene	U	330	ug/Kgdrywt	1	330	330
2,6-Dinitrotoluene	U	330	ug/Kgdrywt	1	330	330
3-Nitroaniline	U	820	ug/Kgdrywt	1	820	820
Acenaphthene	U	330	ug/Kgdrywt	1	330	330
2,4-Dinitrophenol	U	820	ug/Kgdrywt	1	820	820

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164373-1
Client ID: Method Blank Sample
Project:
SDG: SI3835
Lab File ID: U0619.D

Sample Date:
Received Date:
Extract Date: 08-JUN-15
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG164373

Analysis Date: 09-JUN-15
Analyst: JCG
Analysis Method: SW846 8270C
Matrix: SL
% Solids: NA
Report Date: 10-JUN-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL
4-Nitrophenol	U	820	ug/Kgdrywt	1	820	820
Dibenzofuran	U	330	ug/Kgdrywt	1	330	330
2,4-Dinitrotoluene	U	330	ug/Kgdrywt	1	330	330
Diethylphthalate	U	330	ug/Kgdrywt	1	330	330
4-Chlorophenyl-Phenylether	U	330	ug/Kgdrywt	1	330	330
Fluorene	U	330	ug/Kgdrywt	1	330	330
4-Nitroaniline	U	820	ug/Kgdrywt	1	820	820
4,6-Dinitro-2-Methylphenol	U	820	ug/Kgdrywt	1	820	820
N-Nitrosodiphenylamine	U	330	ug/Kgdrywt	1	330	330
4-Bromophenyl-Phenylether	U	330	ug/Kgdrywt	1	330	330
Hexachlorobenzene	U	330	ug/Kgdrywt	1	330	330
Pentachlorophenol	U	820	ug/Kgdrywt	1	820	820
Phenanthrene	U	330	ug/Kgdrywt	1	330	330
Anthracene	U	330	ug/Kgdrywt	1	330	330
Carbazole	U	330	ug/Kgdrywt	1	330	330
Di-N-Butylphthalate	U	330	ug/Kgdrywt	1	330	330
Fluoranthene	U	330	ug/Kgdrywt	1	330	330
Pyrene	U	330	ug/Kgdrywt	1	330	330
Butylbenzylphthalate	U	330	ug/Kgdrywt	1	330	330
3,3'-Dichlorobenzidine	U	330	ug/Kgdrywt	1	330	330
Benzo(a)anthracene	U	330	ug/Kgdrywt	1	330	330
Chrysene	U	330	ug/Kgdrywt	1	330	330
Bis(2-Ethylhexyl)Phthalate	U	330	ug/Kgdrywt	1	330	330
Di-N-Octylphthalate	U	330	ug/Kgdrywt	1	330	330
Benzo(b)fluoranthene	U	330	ug/Kgdrywt	1	330	330
Benzo(k)fluoranthene	U	330	ug/Kgdrywt	1	330	330
Benzo(a)pyrene	U	330	ug/Kgdrywt	1	330	330
Indeno(1,2,3-cd)pyrene	U	330	ug/Kgdrywt	1	330	330
Dibenzo(a,h)anthracene	U	330	ug/Kgdrywt	1	330	330
Benzo(g,h,i)perylene	U	330	ug/Kgdrywt	1	330	330
2-Fluorophenol		62.0				
Phenol-d6		70.8				
Nitrobenzene-d5		64.4				
2-Fluorobiphenyl		69.8				

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164373-1
Client ID: Method Blank Sample
Project:
SDG: SI3835
Lab File ID: U0619.D

Sample Date:
Received Date:
Extract Date: 08-JUN-15
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG164373

Analysis Date: 09-JUN-15
Analyst: JCG
Analysis Method: SW846 8270C
Matrix: SL
% Solids: NA
Report Date: 10-JUN-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL
2,4,6-Tribromophenol		59.9				
Terphenyl-d14		77.9				

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Cert No E87604

LCS/LCSD Recovery Report

LCS ID: WG164373-2
LCSD ID: WG164373-3
Project:
SDG: SI3835
Report Date: 10-JUN-15
LCS File ID: U0620.D

Received Date:
Extract Date: 08-JUN-15
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG164373
LCSD File ID: U0621.D

Analysis Date: 09-JUN-15
Analyst: JCG
Analysis Method: SW846 8270C
Matrix: SL
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Phenol	3330	2180	65.5	2260	67.9	ug/Kgdrywt	4	50	34-94
Bis(2-Chloroethyl)Ether	1670	1240	74.2	1300	77.8	ug/Kgdrywt	5	50	33-93
2-Chlorophenol	3330	2260	67.9	2320	69.7	ug/Kgdrywt	3	50	33-93
1,3-Dichlorobenzene	1670	1100	65.9	1140	68.3	ug/Kgdrywt	4	50	29-89
1,4-Dichlorobenzene	1670	1160	69.5	1200	71.8	ug/Kgdrywt	3	50	30-90
1,2-Dichlorobenzene	1670	1180	70.6	1200	71.8	ug/Kgdrywt	2	50	31-91
2-Methylphenol	3330	2220	66.7	2250	67.6	ug/Kgdrywt	1	50	34-94
2,2'-Oxybis(1-Chloropropane)	1670	982.	58.8	1010	60.5	ug/Kgdrywt	3	50	41-118
3&4-Methylphenol	3330	2150	64.6	2190	65.8	ug/Kgdrywt	2	50	38-98
N-Nitroso-Di-N-Propylamine	1670	1130	67.7	1140	68.3	ug/Kgdrywt	1	50	33-93
Hexachloroethane	1670	1130	67.7	1140	68.3	ug/Kgdrywt	1	50	10-88
Nitrobenzene	1670	1260	75.4	1240	74.2	ug/Kgdrywt	2	50	32-92
Isophorone	1670	922.	55.2	960.	57.5	ug/Kgdrywt	4	50	37-97
2-Nitrophenol	3330	2210	66.4	2280	68.5	ug/Kgdrywt	3	50	34-94
2,4-Dimethylphenol	3330	2180	65.5	2210	66.4	ug/Kgdrywt	1	50	21-81
Bis(2-Chloroethoxy)Methane	1670	1100	65.9	1120	67.1	ug/Kgdrywt	2	50	30-90
2,4-Dichlorophenol	3330	2460	73.9	2520	75.7	ug/Kgdrywt	2	50	40-100
1,2,4-Trichlorobenzene	1670	1190	71.2	1230	73.6	ug/Kgdrywt	3	50	32-92
Naphthalene	1670	1240	74.2	1260	75.4	ug/Kgdrywt	2	50	30-90
4-Chloroaniline	1670	1110	66.5	1110	66.5	ug/Kgdrywt	0	50	10-73
Hexachlorobutadiene	1670	1240	74.2	1310	78.4	ug/Kgdrywt	5	50	31-91
4-Chloro-3-Methylphenol	3330	2840	85.3	2860	85.9	ug/Kgdrywt	1	50	45-105
2-Methylnaphthalene	1670	1220	73.0	1220	73.0	ug/Kgdrywt	0	50	40-100
Hexachlorocyclopentadiene	1670	756.	45.3	793.	47.5	ug/Kgdrywt	5	50	10-70
2,4,6-Trichlorophenol	3330	2430	73.0	2570	77.2	ug/Kgdrywt	6	50	46-106
2,4,5-Trichlorophenol	3330	2520	75.7	2600	78.1	ug/Kgdrywt	3	50	47-107
2-Chloronaphthalene	1670	1070	64.1	1120	67.1	ug/Kgdrywt	4	50	15-75
2-Nitroaniline	1670	1310	78.4	1360	81.4	ug/Kgdrywt	4	50	40-100
Dimethyl Phthalate	1670	1300	77.8	1370	82.0	ug/Kgdrywt	5	50	53-113
Acenaphthylene	1670	1250	74.8	1280	76.6	ug/Kgdrywt	2	50	40-100
2,6-Dinitrotoluene	1670	1320	79.0	1370	82.0	ug/Kgdrywt	4	50	54-114
3-Nitroaniline	1670	1180	70.6	1260	75.4	ug/Kgdrywt	6	50	22-82
Acenaphthene	1670	1220	73.0	1250	74.8	ug/Kgdrywt	2	50	45-105
2,4-Dinitrophenol	3330	1530	45.9	1490	44.7	ug/Kgdrywt	3	50	17-77

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Accredited in accordance with nelac
Cert No E87604

LCS/LCSD Recovery Report

LCS ID: WG164373-2
LCSD ID: WG164373-3
Project:
SDG: SI3835
Report Date: 10-JUN-15
LCS File ID: U0620.D

Received Date:
Extract Date: 08-JUN-15
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG164373
LCSD File ID: U0621.D

Analysis Date: 09-JUN-15
Analyst: JCG
Analysis Method: SW846 8270C
Matrix: SL
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
4-Nitrophenol	3330	3750	113.	4030	121.	ug/Kgdrywt	7	50	10-137
Dibenzofuran	1670	1340	80.2	1400	83.8	ug/Kgdrywt	4	50	51-111
2,4-Dinitrotoluene	1670	1490	89.2	1580	94.6	ug/Kgdrywt	6	50	53-113
Diethylphthalate	1670	1410	84.4	1470	88.0	ug/Kgdrywt	4	50	57-117
4-Chlorophenyl-Phenylether	1670	1340	80.2	1390	83.2	ug/Kgdrywt	4	50	53-113
Fluorene	1670	1270	76.0	1370	82.0	ug/Kgdrywt	8	50	46-106
4-Nitroaniline	1670	1590	95.2*	1710	102.*	ug/Kgdrywt	7	50	14-82
4,6-Dinitro-2-Methylphenol	3330	2540	76.3	2600	78.1	ug/Kgdrywt	2	50	39-99
N-Nitrosodiphenylamine	1670	1020	61.1	1020	61.1	ug/Kgdrywt	0	50	44-104
4-Bromophenyl-Phenylether	1670	1330	79.6	1400	83.8	ug/Kgdrywt	5	50	46-106
Hexachlorobenzene	1670	1340	80.2	1360	81.4	ug/Kgdrywt	1	50	49-109
Pentachlorophenol	3330	3360	101.*	3420	103.*	ug/Kgdrywt	2	50	37-97
Phenanthrene	1670	1540	92.2	1560	93.4	ug/Kgdrywt	1	50	51-111
Anthracene	1670	1420	85.0	1440	86.2	ug/Kgdrywt	1	50	49-109
Carbazole	1670	1580	94.6	1570	94.0	ug/Kgdrywt	1	50	50-110
Di-N-Butylphthalate	1670	1500	89.8	1580	94.6	ug/Kgdrywt	5	50	53-113
Fluoranthene	1670	1670	100.	1680	100.	ug/Kgdrywt	0	50	47-107
Pyrene	1670	1300	77.8	1350	80.8	ug/Kgdrywt	4	50	58-118
Butylbenzylphthalate	1670	1410	84.4	1400	83.8	ug/Kgdrywt	1	50	63-123
3,3'-Dichlorobenzidine	3330	2550	76.6*	2610	78.4*	ug/Kgdrywt	2	50	10-70
Benzo(a)anthracene	1670	1430	85.6	1470	88.0	ug/Kgdrywt	3	50	50-110
Chrysene	1670	1450	86.8	1470	88.0	ug/Kgdrywt	1	50	55-115
Bis(2-Ethylhexyl)Phthalate	1670	1400	83.8	1380	82.6	ug/Kgdrywt	1	50	38-138
Di-N-Octylphthalate	1670	1310	78.4	1340	80.2	ug/Kgdrywt	2	50	46-123
Benzo(b)fluoranthene	1670	1360	81.4	1410	84.4	ug/Kgdrywt	4	50	46-116
Benzo(k)fluoranthene	1670	1410	84.4	1470	88.0	ug/Kgdrywt	4	50	60-120
Benzo(a)pyrene	1670	1420	85.0	1410	84.4	ug/Kgdrywt	1	50	53-113
Indeno(1,2,3-cd)pyrene	1670	1460	87.4	1450	86.8	ug/Kgdrywt	1	50	32-92
Dibenzo(a,h)anthracene	1670	1420	85.0	1460	87.4	ug/Kgdrywt	3	50	40-100
Benzo(g,h,i)perylene	1670	1500	89.8	1470	88.0	ug/Kgdrywt	2	50	40-125
2-Fluorophenol			66.8		71.7				19-81
Phenol-d6			68.3		71.9				25-82
Nitrobenzene-d5			69.9		71.1				24-81
2-Fluorobiphenyl			68.9		72.7				29-83

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS/LCSD Recovery Report

LCS ID: WG164373-2
LCSD ID: WG164373-3
Project:
SDG: SI3835
Report Date: 10-JUN-15
LCS File ID: U0620.D

Received Date:
Extract Date: 08-JUN-15
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG164373
LCSD File ID: U0621.D

Analysis Date: 09-JUN-15
Analyst: JCG
Analysis Method: SW846 8270C
Matrix: SL
% Solids: NA

2,4,6-Tribromophenol	81.9	88.6	16-103
Terphenyl-d14	79.4	79.9	24-136

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: S. W. Cole Engineering, Inc.
Lab ID: SI3835-1DL
Client ID: TP-105
Project: Mt. Vernon Ave/13-1069.2
SDG: SI3835
Lab File ID: CIF2219.D

Sample Date: 04-JUN-15
Received Date: 04-JUN-15
Extract Date: 05-JUN-15
Extracted By: JMS
Extraction Method: SW846 3546
Lab Prep Batch: WG164213

Analysis Date: 13-JUN-15
Analyst: AC
Analysis Method: MA DEP EPH 04-1.1
Matrix: SL
% Solids: 89.
Report Date: 15-JUN-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL
C9-C18 Aliphatics		1800	mg/Kgdrywt	14	20	230
C19-C36 Aliphatics		220	mg/Kgdrywt	2	20	33.
C11-C22 Aromatics		700	mg/Kgdrywt	2	20	33.
Naphthalene		1.7	mg/Kgdrywt	2	.2	0.33
2-Methylnaphthalene		1.2	mg/Kgdrywt	2	.2	0.33
Phenanthrene		2.2	mg/Kgdrywt	2	.2	0.33
Acenaphthylene	U	0.33	mg/Kgdrywt	2	.2	0.33
Acenaphthene		0.54	mg/Kgdrywt	2	.2	0.33
Anthracene	U	0.33	mg/Kgdrywt	2	.2	0.33
Benzo(a)anthracene	U	0.33	mg/Kgdrywt	2	.2	0.33
Benzo(a)pyrene	U	0.33	mg/Kgdrywt	2	.2	0.33
Benzo(b)fluoranthene	U	0.33	mg/Kgdrywt	2	.2	0.33
Benzo(g,h,i)perylene	U	0.33	mg/Kgdrywt	2	.2	0.33
Benzo(k)fluoranthene	U	0.33	mg/Kgdrywt	2	.2	0.33
Chrysene	U	0.33	mg/Kgdrywt	2	.2	0.33
Dibenzo(a,h)anthracene	U	0.33	mg/Kgdrywt	2	.2	0.33
Fluoranthene	U	0.33	mg/Kgdrywt	2	.2	0.33
Fluorene		0.38	mg/Kgdrywt	2	.2	0.33
Indeno(1,2,3-cd)pyrene	U	0.33	mg/Kgdrywt	2	.2	0.33
Pyrene		0.54	mg/Kgdrywt	2	.2	0.33
5-Alpha Androstane		73.8	%			
o-Terphenyl		70.5	%			
2-Fluorobiphenyl		74.4	%			
2-Bromonaphthalene		62.8	%			

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Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : Mt. Vernon Ave/13-1069.2
Lab File ID : CIF1073.D
Instrument ID : GC12

SDG : SI3835
Lab Sample ID : WG164213-1
Date Analyzed : 08-JUN-15
Time Analyzed : 18:28
Date Extracted : 05-JUN-15

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG164213-2	CIF1074.D	06/08/15	19:14
Laboratory Control S	WG164213-3	CIF1075.D	06/08/15	19:59
TP-105	SI3835-1	CIF1152.D	06/11/15	08:01

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ANALYTICAL SERVICES

Cert No E87604

Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : Mt. Vernon Ave/13-1069.2
Lab File ID : CIF1073A.D
Instrument ID : GC12

SDG : SI3835
Lab Sample ID : WG164213-1
Date Analyzed : 08-JUN-15
Time Analyzed : 18:28
Date Extracted : 05-JUN-15

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG164213-2	CIF1074A..	06/08/15	19:14
Laboratory Control S	WG164213-3	CIF1075A..	06/08/15	19:59
TP-105	SI3835-1	CIF1152A..	06/11/15	08:01

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Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : Mt. Vernon Ave/13-1069.2
Lab File ID : CIF2073.D
Instrument ID : GC12

SDG : SI3835
Lab Sample ID : WG164213-1
Date Analyzed : 08-JUN-15
Time Analyzed : 18:28
Date Extracted : 05-JUN-15

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG164213-2	CIF2074.D	06/08/15	19:14
Laboratory Control S	WG164213-3	CIF2075.D	06/08/15	19:59
TP-105	SI3835-1	CIF2152.D	06/11/15	08:01
TP-105	SI3835-1DL	CIF2219.D	06/13/15	11:22

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164213-1
Client ID: Method Blank Sample
Project:
SDG: SI3835
Lab File ID: CIF2073.D

Sample Date:
Received Date:
Extract Date: 05-JUN-15
Extracted By: JMS
Extraction Method: SW846 3546
Lab Prep Batch: WG164213

Analysis Date: 08-JUN-15
Analyst: AC
Analysis Method: MA DEP EPH 04-1.1
Matrix: SL
% Solids: NA
Report Date: 15-JUN-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL
C9-C18 Aliphatics	U	20	mg/Kgdrywt	1	20	20.
C19-C36 Aliphatics	U	20	mg/Kgdrywt	1	20	20.
C11-C22 Aromatics	U	20	mg/Kgdrywt	1	20	20.
Naphthalene	U	0.20	mg/Kgdrywt	1	.2	0.20
2-Methylnaphthalene	U	0.20	mg/Kgdrywt	1	.2	0.20
Phenanthrene	U	0.20	mg/Kgdrywt	1	.2	0.20
Acenaphthylene	U	0.20	mg/Kgdrywt	1	.2	0.20
Acenaphthene	U	0.20	mg/Kgdrywt	1	.2	0.20
Anthracene	U	0.20	mg/Kgdrywt	1	.2	0.20
Benzo(a)anthracene	U	0.20	mg/Kgdrywt	1	.2	0.20
Benzo(a)pyrene	U	0.20	mg/Kgdrywt	1	.2	0.20
Benzo(b)fluoranthene	U	0.20	mg/Kgdrywt	1	.2	0.20
Benzo(g,h,i)perylene	U	0.20	mg/Kgdrywt	1	.2	0.20
Benzo(k)fluoranthene	U	0.20	mg/Kgdrywt	1	.2	0.20
Chrysene	U	0.20	mg/Kgdrywt	1	.2	0.20
Dibenzo(a,h)anthracene	U	0.20	mg/Kgdrywt	1	.2	0.20
Fluoranthene	U	0.20	mg/Kgdrywt	1	.2	0.20
Fluorene	U	0.20	mg/Kgdrywt	1	.2	0.20
Indeno(1,2,3-cd)pyrene	U	0.20	mg/Kgdrywt	1	.2	0.20
Pyrene	U	0.20	mg/Kgdrywt	1	.2	0.20
5-Alpha Androstane		65.4	%			
o-Terphenyl		52.9	%			
2-Fluorobiphenyl		58.2	%			
2-Bromonaphthalene		57.4	%			

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Cert No E87604

LCS/LCSD Recovery Report

LCS ID: WG164213-2
LCSD ID: WG164213-3
Project:
SDG: SI3835
Report Date: 15-JUN-15
LCS File ID: CIF2074.D

Received Date:
Extract Date: 05-JUN-15
Extracted By: JMS
Extraction Method: SW846 3546
Lab Prep Batch: WG164213
LCSD File ID: CIF1075A.d

Analysis Date: 08-JUN-15
Analyst: AC
Analysis Method: MA DEP EPH 04-1.1
Matrix: SL
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Unadjusted C11-C22 Aromatics	153.	107.	69.9	102.	66.7	mg/Kgdrywt	5	25	40-140
C9-C18 Aliphatics	54.0	29.2	54.1	29.4	54.4	mg/Kgdrywt	1	25	40-140
C19-C36 Aliphatics	72.0	50.8	70.6	48.7	67.6	mg/Kgdrywt	4	25	40-140
Naphthalene	9.00	5.27	58.6	5.09	56.6	mg/Kgdrywt	3	25	40-140
2-Methylnaphthalene	9.00	5.41	60.1	5.19	57.7	mg/Kgdrywt	4	25	40-140
Phenanthrene	9.00	5.93	65.9	5.72	63.6	mg/Kgdrywt	4	25	40-140
Acenaphthylene	9.00	5.41	60.1	5.16	57.3	mg/Kgdrywt	5	25	40-140
Acenaphthene	9.00	5.28	58.7	5.06	56.2	mg/Kgdrywt	4	25	40-140
Anthracene	9.00	6.77	75.2	6.44	71.6	mg/Kgdrywt	5	25	40-140
Benzo(a)anthracene	9.00	6.78	75.3	6.42	71.3	mg/Kgdrywt	5	25	40-140
Benzo(a)pyrene	9.00	6.78	75.3	6.42	71.3	mg/Kgdrywt	5	25	40-140
Benzo(b)fluoranthene	9.00	6.34	70.4	5.96	66.2	mg/Kgdrywt	6	25	40-140
Benzo(g,h,i)perylene	9.00	6.68	74.2	6.34	70.4	mg/Kgdrywt	5	25	40-140
Benzo(k)fluoranthene	9.00	6.58	73.1	6.28	69.8	mg/Kgdrywt	5	25	40-140
Chrysene	9.00	6.68	74.2	6.32	70.2	mg/Kgdrywt	6	25	40-140
Dibenzo(a,h)anthracene	9.00	6.52	72.4	6.28	69.8	mg/Kgdrywt	4	25	40-140
Fluoranthene	9.00	6.45	71.7	6.15	68.3	mg/Kgdrywt	5	25	40-140
Fluorene	9.00	5.50	61.1	5.32	59.1	mg/Kgdrywt	3	25	40-140
Indeno(1,2,3-cd)pyrene	9.00	6.56	72.9	6.13	68.1	mg/Kgdrywt	7	25	40-140
Pyrene	9.00	6.39	71.0	6.09	67.7	mg/Kgdrywt	5	25	40-140
5-Alpha Androstane			68.3		67.4				40-140
o-Terphenyl			67.4		66.2				40-140
2-Fluorobiphenyl			70.6		72.2				40-140
2-Bromonaphthalene			69.8		71.3				40-140

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Report of Analytical Results

Client: S. W. Cole Engineering, Inc.
Lab ID: SI3835-1
Client ID: TP-105
Project: Mt. Vernon Ave/13-1069.2
SDG: SI3835
Lab File ID: 2IF10100.D

Sample Date: 04-JUN-15
Received Date: 04-JUN-15
Extract Date: 12-JUN-15
Extracted By: AAB
Extraction Method: MA-VPH
Lab Prep Batch: WG164656

Analysis Date: 12-JUN-15
Analyst: AAB
Analysis Method: MA DEP VPH 04-1.1
Matrix: SL
% Solids: 89.
Report Date: 16-JUN-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL
C5-C8 Aliphatics	U	28	mg/Kgdrywt	1	25	28.
C9-C12 Aliphatics		170	mg/Kgdrywt	2	25	55.
C9-C10 Aromatics		160	mg/Kgdrywt	2	25	55.
Benzene	U	1.4	mg/Kgdrywt	1	1.25	1.4
Ethylbenzene	U	1.4	mg/Kgdrywt	1	1.25	1.4
Methyl tert-butylether	U	1.4	mg/Kgdrywt	1	1.25	1.4
Naphthalene	U	1.4	mg/Kgdrywt	1	1.25	1.4
Toluene	U	1.4	mg/Kgdrywt	1	1.25	1.4
m+p-Xylenes	U	2.8	mg/Kgdrywt	1	2.5	2.8
o-Xylene	U	1.4	mg/Kgdrywt	1	1.25	1.4
2,5-Dibromotoluene (FID)		86.4	%			
2,5-Dibromotoluene (PID)		95.9	%			

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Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : Mt. Vernon Ave/13-1069.2
Lab File ID : 2IF10097.D
Instrument ID : GC02

SDG : SI3835
Lab Sample ID : WG164656-1
Date Analyzed : 12-JUN-15
Time Analyzed : 17:04
Date Extracted : 12-JUN-15

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG164656-2	2IF10098.D	06/12/15	17:57
TP-105	SI3835-1	2IF10100.D	06/12/15	19:48

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164656-1
Client ID: Method Blank Sample
Project:
SDG: SI3835
Lab File ID: 2IF10097.D

Sample Date:
Received Date:
Extract Date: 12-JUN-15
Extracted By: AAB
Extraction Method: MA-VPH
Lab Prep Batch: WG164656

Analysis Date: 12-JUN-15
Analyst: AAB
Analysis Method: MA DEP VPH 04-1.1
Matrix: SL
% Solids: NA
Report Date: 16-JUN-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL
C5-C8 Aliphatics	U	25	mg/Kgdrywt	1	25	25.
C9-C12 Aliphatics	U	25	mg/Kgdrywt	1	25	25.
C9-C10 Aromatics	U	25	mg/Kgdrywt	1	25	25.
Benzene	U	1.2	mg/Kgdrywt	1	1.25	1.2
Ethylbenzene	U	1.2	mg/Kgdrywt	1	1.25	1.2
Methyl tert-butylether	U	1.2	mg/Kgdrywt	1	1.25	1.2
Naphthalene	U	1.2	mg/Kgdrywt	1	1.25	1.2
Toluene	U	1.2	mg/Kgdrywt	1	1.25	1.2
m+p-Xylenes	U	2.5	mg/Kgdrywt	1	2.5	2.5
o-Xylene	U	1.2	mg/Kgdrywt	1	1.25	1.2
2,5-Dibromotoluene (FID)		99.1	%			
2,5-Dibromotoluene (PID)		107.	%			

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Cert No E87604

LCS/LCSD Recovery Report

LCS ID: WG164656-2
LCSD ID: WG164656-3RA
Project:
SDG: SI3835
Report Date: 16-JUN-15
LCS File ID: 2IF10098.D

Received Date:
Extract Date: 12-JUN-15
Extracted By: AAB
Extraction Method: MA DEP VPH 04-1
Lab Prep Batch: WG164656
LCSD File ID: 2IF10105.D

Analysis Date: 12-JUN-15
Analyst: AAB
Analysis Method: MA DEP VPH 04-1.1
Matrix: SL
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
C5-C8 Aliphatics	69.9	76.5	109.	64.0	91.6	mg/Kgdrywt	18	25	70-130
C9-C12 Aliphatics	46.6	47.9	103.	51.3	110.	mg/Kgdrywt	7	25	70-130
C9-C10 Aromatics	23.3	27.2	117.	27.0	116.	mg/Kgdrywt	1	25	70-130
Benzene	23.3	23.1	99.1	22.4	96.1	mg/Kgdrywt	3	25	70-130
Ethylbenzene	23.3	23.6	101.	23.3	100.	mg/Kgdrywt	1	25	70-130
Methyl tert-butylether	23.3	23.3	100.	21.6	92.7	mg/Kgdrywt	8	25	70-130
Naphthalene	23.3	27.0	116.	24.5	105.	mg/Kgdrywt	10	25	70-130
Toluene	23.3	23.5	101.	22.9	98.3	mg/Kgdrywt	2	25	70-130
m+p-Xylenes	46.6	46.1	98.9	45.6	97.8	mg/Kgdrywt	1	25	70-130
o-Xylene	23.3	23.6	101.	23.2	99.6	mg/Kgdrywt	2	25	70-130
2,5-Dibromotoluene (FID)			110.		103.				70-130
2,5-Dibromotoluene (PID)			118.		112.				70-130

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Cert No E87604

Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : Mt. Vernon Ave/13-1069.2
Lab File ID : 2IF10104.D
Instrument ID : GC02

SDG : SI3835
Lab Sample ID : WG164656-1RA
Date Analyzed : 15-JUN-15
Time Analyzed : 12:32
Date Extracted : 12-JUN-15

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG164656-3RA	2IF10105.D	06/15/15	13:25
TP-105	SI3835-1DL	2IF10106.D	06/15/15	14:19

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Katahdin
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Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164656-1RA
Client ID: Method Blank Sample
Project:
SDG: SI3835
Lab File ID: 2IF10104.D

Sample Date:
Received Date:
Extract Date: 12-JUN-15
Extracted By: AAB
Extraction Method: MA-VPH
Lab Prep Batch: WG164656

Analysis Date: 15-JUN-15
Analyst: AAB
Analysis Method: MA DEP VPH 04-1.1
Matrix: SL
% Solids: NA
Report Date: 16-JUN-15

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL
C5-C8 Aliphatics	U	25	mg/Kgdrywt	1	25	25.
C9-C12 Aliphatics	U	25	mg/Kgdrywt	1	25	25.
C9-C10 Aromatics	U	25	mg/Kgdrywt	1	25	25.
Benzene	U	1.2	mg/Kgdrywt	1	1.25	1.2
Ethylbenzene	U	1.2	mg/Kgdrywt	1	1.25	1.2
Methyl tert-butylether	U	1.2	mg/Kgdrywt	1	1.25	1.2
Naphthalene	U	1.2	mg/Kgdrywt	1	1.25	1.2
Toluene	U	1.2	mg/Kgdrywt	1	1.25	1.2
m+p-Xylenes	U	2.5	mg/Kgdrywt	1	2.5	2.5
o-Xylene	U	1.2	mg/Kgdrywt	1	1.25	1.2
2,5-Dibromotoluene (FID)		117.	%			
2,5-Dibromotoluene (PID)		130.	%			

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Katahdin ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Pat Otto
S. W. Cole Engineering, Inc.
286 Portland Road
Gray, ME 04039

Lab Sample ID: SI3835-001
Report Date: 6/15/2015
PO No.:
Project: Mt. Vernon Ave/13-1069.2

Sample Description	Matrix	Percent Solids(%)	Date Sampled	Date Received
TP-105	SL	88.8	06/04/2015	06/04/2015

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
ARSENIC	8.82	mg/Kgdrywt	0.80	5	0.16	SW846 6020	6/12/15	EAM	SW846 3050	6/5/15	TCS	IF05IMS1	
BARIUM	43.7	mg/Kgdrywt	0.500	5	0.1	SW846 6020	6/12/15	EAM	SW846 3050	6/5/15	TCS	IF05IMS1	
CADMIUM	U 0.500	mg/Kgdrywt	0.500	5	0.1	SW846 6020	6/12/15	EAM	SW846 3050	6/5/15	TCS	IF05IMS1	1
CHROMIUM	28.6	mg/Kgdrywt	1.00	5	0.2	SW846 6020	6/12/15	EAM	SW846 3050	6/5/15	TCS	IF05IMS1	
LEAD	32.1	mg/Kgdrywt	0.500	5	0.1	SW846 6020	6/12/15	EAM	SW846 3050	6/5/15	TCS	IF05IMS1	
MERCURY	U 0.044	ug/gdrywt	0.044	1	0.04	SW846 7471	6/9/15	TCS	SW846 7471	6/8/15	TCS	IF08HGS1	1
SELENIUM	U 1.0	mg/Kgdrywt	1.0	5	0.2	SW846 6020	6/12/15	EAM	SW846 3050	6/5/15	TCS	IF05IMS1	1
SILVER	U 1.00	mg/Kgdrywt	1.00	5	0.2	SW846 6020	6/12/15	EAM	SW846 3050	6/5/15	TCS	IF05IMS1	1

1 The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects,sample volume, or quantity used for analysis.

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PREPARATION BLANK REPORT

Sample ID: PBSIF05IMS1 **Batch ID:** IF05IMS1 **Work Order:** SI3835

Element Name	Result	Units	Flag	PQL	File
ARSENIC	0.03	mg/kgdrywt	J	0.500	JIF12A
BARIUM	0.02	mg/kgdrywt	J	0.200	JIF12A
CADMIUM	0.001	mg/kgdrywt	J	0.100	JIF12A
CHROMIUM	0.18	mg/kgdrywt	J	0.500	JIF12A
LEAD	0.020	mg/kgdrywt	J	0.100	JIF12A
SELENIUM	0.02	mg/kgdrywt	U	0.500	JIF12A
SILVER	0.0004	mg/kgdrywt	U	0.100	JIF12A

U The analyte was not detected in the sample at a level greater than the instrument detection limit.

J The analyte was detected in the sample at a concentration greater than the instrument detection limit, but less than the laboratory's Practical Quantitation Level.

H The analyte was detected in the sample at a concentration greater than the laboratory's acceptance limit.

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PREPARATION BLANK REPORT

Sample ID: PBSIF08HGS1 **Batch ID:** IF08HGS1 **Work Order:** SI3835

Element Name	Result	Units	Flag	PQL	File
MERCURY	0.004	ug/gdrywt	U	0.04	HIF09A

U The analyte was not detected in the sample at a level greater than the instrument detection limit.

J The analyte was detected in the sample at a concentration greater than the instrument detection limit, but less than the laboratory's Practical Quantitation Level.

H The analyte was detected in the sample at a concentration greater than the laboratory's acceptance limit.

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LABORATORY CONTROL SAMPLE REPORT

Sample ID: LCSOIF05IMS1 **Batch ID:** IF05IMS1 **Work Order:** SI3835

Element Name	True Value	Result	Units	Recovery(%)	Flag	Limits (mg/kgdrywt)		File
ARSENIC	10.0	9.46	mg/kgdrywt	94.6%		7.95	12.0	JIF12A
BARIUM	200.	196.	mg/kgdrywt	98.0%		159	241	JIF12A
CADMIUM	25.0	23.6	mg/kgdrywt	94.4%		19.9	30.1	JIF12A
CHROMIUM	20.0	19.7	mg/kgdrywt	98.5%		15.9	24.1	JIF12A
LEAD	10.0	9.80	mg/kgdrywt	98.0%		7.95	12.0	JIF12A
SELENIUM	10.0	9.11	mg/kgdrywt	91.1%		7.95	12.0	JIF12A
SILVER	5.00	4.59	mg/kgdrywt	91.8%		3.98	6.02	JIF12A

H Laboratory control sample recovery is greater than the laboratory's acceptance limit.

L Laboratory control sample recovery is less than the laboratory's acceptance limit.

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ANALYTICAL SERVICES

LABORATORY CONTROL SAMPLE REPORT

Sample ID: LCSOIF08HGS1 **Batch ID:** IF08HGS1 **Work Order:** SI3835

Element Name	True Value	Result	Units	Recovery(%)	Flag	Limits (ug/gdrywt)		File
MERCURY	0.83	0.922	ug/gdrywt	111.1%		0.663	1.00	HIF09A

H Laboratory control sample recovery is greater than the laboratory's acceptance limit.

L Laboratory control sample recovery is less than the laboratory's acceptance limit.

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Report of Analytical Results

Client: Pat Otto
S. W. Cole Engineering, Inc.
286 Portland Road
Gray,ME 04039

Lab Sample ID: SI3835-1
Report Date: 12-JUN-15
Client PO:
Project: Mt. Vernon Ave/13-1069.2
SDG: SI3835

Sample Description	Matrix	Date Sampled	Date Received
TP-105	SL	04-JUN-15 10:30:00	04-JUN-15

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	89. %	1		SM2540G	WG164255	07-JUN-15 10:43:29	SM2540G	05-JUN-15	AZ	

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Quality Control Report

Blank Sample Summary Report

Total Solids

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG164255	SM2540	07-JUN-15	05-JUN-15	U 1 %	1 %

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Quality Control Report

Laboratory Control Sample Summary Report

Total Solids

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG164255-2	LCS	WG164255	07-JUN-15	05-JUN-15	%	90	90.	100	90-110	

Katahdin Analytical Services, Inc. — Sample Receipt Condition Report

Client:	SW Cole	KAS PM:	~~Et~~ DJP	Sampled By:	Client
Project:		KIMS Entry By:	GN	Delivered By:	Client
KAS Work Order#:	SI 3835	KIMS Review By:	DJP	Received By:	GN
SDG #:	Cooler: 1 of 1			Date/Time Rec.:	6-4-15 / 14:55

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?		✓			
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.		✓			Temp (°C): 16.2
Samples received at <6 °C w/o freezing?		✓			Note: Not required for metals (except Hg) analysi
Ice packs or ice present?		✓			The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?		✓			
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?		✓			Note: No cooling process required for metals (except Hg) analysis.
6. Volatiles: **Aqueous:** No bubble larger than a pea?				✓	
Soil/Sediment: Received in airtight container?	✓				
Received in methanol?	✓				
Methanol covering soil?	✓				
D.I. Water - Received within 48 hour HT?	✓				
Air: Refer to KAS COC for canister/flow controller requirements.	√ if air included				
7. Trip Blank present in cooler?		✓			
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

QA-048 – Revision 5 – 05/01/2015

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CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Page ____ of ____

Client: SW COLE ENG
Contact: PAT OTTO
Phone #: ( ) 6572866
Fax #: ( )
Address: 286 Portland Rd.
City: GRAY
State: ME
Zip Code:
Purchase Order #:
Proj. Name / No.: Mt. Vernon Ave / 13-1069.2
Katahdin Quote #:
Bill (if different than above): " " Address:
Sampler (Print / Sign): Patrick Otto / Patrick Otto
Copies To:

LAB USE ONLY
WORK ORDER #: SI 3835
KATAHDIN PROJECT NUMBER:

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	EPH / PAH	RCRA 8 -	VPH - MeOH	VOA - MeOH																				
					Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N
	TP-105	6/4/15 / 10:30	Soil	8	X	X	X																					
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COMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Patrick Otto	6-4-15 / 14:55				
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (Ino1)

Jun. 04, 2015
04:13 PM

Quote/Incoming:

Login Number: SI3835

Account: SWCOLE001 NoWeb
S. W. Cole Engineering, Inc.

Project:

Primary Report Address:
Pat Otto
S. W. Cole Engineering, Inc.
286 Portland Road

Gray,ME 04039
potto@swcole.com

Primary Invoice Address:
Accounts Payable
S. W. Cole Engineering, Inc.
286 Portland Road

Gray,ME 04039

Report CC Addresses:
Invoice CC Addresses:

Login Information:

ANALYSIS INSTRUCTIONS	:
CHECK NO.	:
CLIENT PO#	:
CLIENT PROJECT MANAGE	:
CONTRACT	:
COOLER TEMPERATURE	: 16.2
DELIVERY SERVICES	: Client
EDD FORMAT	:
LOGIN INITIALS	: GN
PM	: DJP
PROJECT NAME	: Mt. Vernon Ave/13-1069.2
QC LEVEL	: II
REGULATORY LIST	:
REPORT INSTRUCTIONS	: email pdf and invoice to Pat, no HC, email invoice also to CRosenberg@SWCole.com
SDG ID	:
SDG STATUS	:

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SI3835-1	TP-105	04-JUN-15 10:30	04-JUN-15			15-JUN-15	

Matrix		*Product*	*Hold Date (shortest)*	*Bottle Type*	*Bottle Count*	*Comments*
Solid	S	MA-EPH	16-JUN-15	100g Glass		
Solid	S	MA-VPH	02-JUL-15	40 mL Vial+MEOH		
Solid	P	RCRA-METALS				
SW3050-PREP		SW6010-ARSENIC		SW6010-BARIUM		
SW6010-CADMIUM		SW6010-CHROMIUM		SW6010-LEAD		
SW6010-SELENIUM		SW6010-SILVER		SW7471-MERCURY		
Solid	S	SW8260FULL5ML	18-JUN-15	40 mL Vial+DI+MEOH		
Solid	S	SW8270BNA	18-JUN-15	1L N-Amber Glass		
Solid	S	TS-ME	04-JUL-15			

Total Samples: *1* ***Total Analyses:*** *6*