



**CONESTOGA-ROVERS
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MEMORANDUM

TO: Darlene Stringer, MDEQ
Matt Gamble, MDEQ

REF. NO.: 017360-T05

FROM: Jeni Quigley/ds/67/Pwl.

DATE: November 12, 2013

CC: David Favero, RACER

RE: **Data Package**
2013 Site-Wide Investigation – Stage V
Former Grand Rapids Metal Plant
Wyoming, Michigan

Conestoga-Rovers & Associates (CRA), on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust, conducted soil and groundwater investigation activities at the former Grand Rapids Metal Plant property located at 300 36th Street SW in Wyoming, Michigan (Site). The scope of work (SOW) implemented was presented in the memorandum entitled *Proposed Sample Locations, 2013 Site-Wide Investigation – Stage V, Former Grand Rapids Metal Plant, Wyoming Michigan*, submitted to the Michigan Department of Environmental Quality (MDEQ) on August 9, 2013. The protocols utilized during the implementation of the August 9, 2013 SOW were described in the Site-Wide Investigation Work Plan (Work Plan), submitted to the MDEQ on January 7, 2011. The samples were collected during the field investigation conducted between August 19, 2013 and August 22, 2013. This memorandum (Memorandum) has been prepared to present the "Data Package" summarizing the data collected during Stage V of the Site-Wide Investigation field activities.

Soil and Groundwater Investigation Activities

Field activities included the advancement of soil borings and the collection of soil and groundwater samples for chemical analysis. Figure 1 presents the sample locations. Figure 2 presents the sample locations associated with the former Tar House. Figure 3 presents the sample locations associated with the Bulk Unload Area and the Zc-5.5 Area. Table 1 presents a sample summary. Stratigraphic soil boring logs and monitoring well construction details are included in Attachment A.

Analytical Results

Analytical results for the soil and groundwater samples were evaluated against the Generic Residential and Non-Residential Cleanup Criteria and Screening Levels established in Part 7 of Administrative Rules, effective September 28, 2012, pursuant to Part 201, Environmental Remediation, 1994 PA 451, as amended. In addition, analytical results for polychlorinated biphenyls (PCBs) were evaluated against the High Occupancy Area Cleanup Level of 1 part per million (ppm) for bulk remediation waste (without further conditions) set forth in the Toxic Substances Control Act (TSCA). Analytical results for soil and groundwater compared to the aforementioned criteria are presented in Tables 2 and 3, respectively. Figure 4 presents exceedances of the Part 201 Generic Residential and Non-Residential Cleanup Criteria in soil samples collected during the Stage V Site-Wide Investigation, except for samples collected in the Former Tar House Area and Zc-5.5 Area. Figure 5 presents analytical results for samples collected from the Former Tar House area. Figure 6 presents exceedances of the Part 201 Generic Residential and Non-Residential Cleanup Criteria in soil samples collected from the Zc-5.5 Area. Figures 7 through 11 present

exceedances of Part 201 Generic Cleanup Criteria, in 2-foot intervals, to 10 feet below ground surface by sample location in the Bulk Unload Area and the Zc-5.5 Area for samples collected between 2005 and 2013.

A Quality Assurance/Quality Control (QA/QC) data validation was conducted on the analytical data. Copies of analytical data and data validation memorandum summarizing the results of the data validation are presented in Attachment B and Attachment C, respectively. Based on the review of the data validation memorandum, data precision and accuracy meets all accepted standards and the data contained within this report are appropriate for use and are without significant anomalies. The detected concentrations are valid and reliable, with the qualifications noted, for the purposes of this investigation.

Field conditions dictated revisions to the SOW presented in the Proposed Sample Locations memorandum. Eight additional soil borings (SB266-13 through SB273-13) were installed in the Zc-5.5 area. The borings were installed in an effort to delineate the extent of visually impacted fill material present in this area.

Please contact David Favero at (217) 741-6235 or Jeni Quigley at (269) 685-5181 with any questions regarding this Memorandum or the enclosed information.

List of Figures

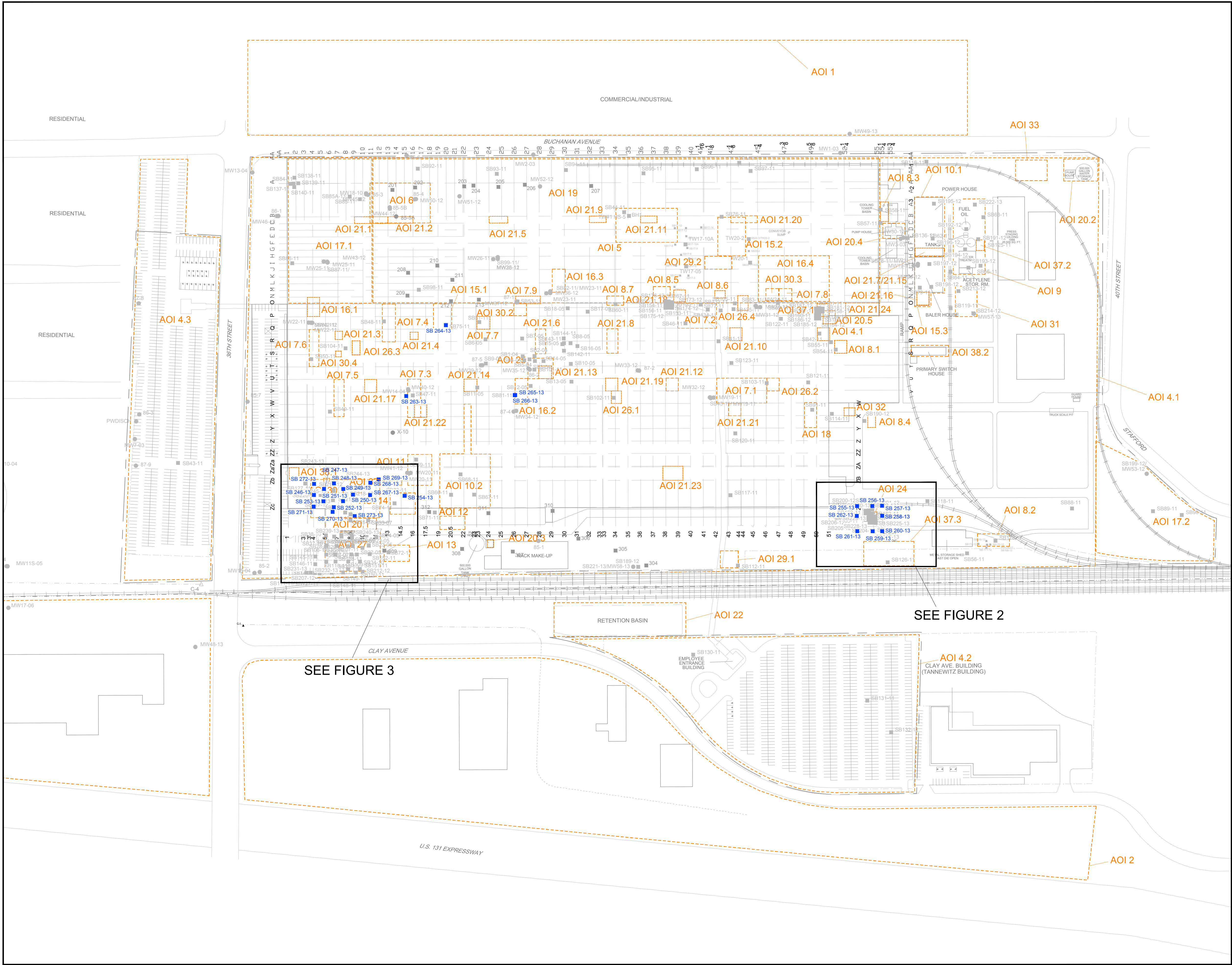
Figure 1	Sample Locations
Figure 2	Sample Locations – Former Tar House
Figure 3	Sample Locations – Bulk Unload and Zc-5.5 Area
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Table 3	Summary of Analytical Results for Borehole Water Samples

List of Attachments

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Attachment B	Analytical Laboratory Data
Attachment C	Data Validation Memorandum



No	Revision	Date	Initial

LEGEND

- SB269-13 STAGE V SITE-WIDE INVESTIGATION SOIL BORING LOCATIONS
- TW20-2 HISTORICAL SAMPLE LOCATION
- MW6-03 HISTORICAL MONITORING WELL LOCATION
- MW25-11 DESTROYED MONITORING WELL LOCATION
- APPROXIMATE SITE BOUNDARY
- FENCE
- RAILROAD
- COLE DRAIN
- APPROXIMATE AOI

KEY MAP

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved		
DRAWING STATUS		
Status	Date	Initial

SAMPLE LOCATIONS

SITE-WIDE INVESTIGATION - STAGE V

FORMER GRAND RAPIDS METAL PLANT

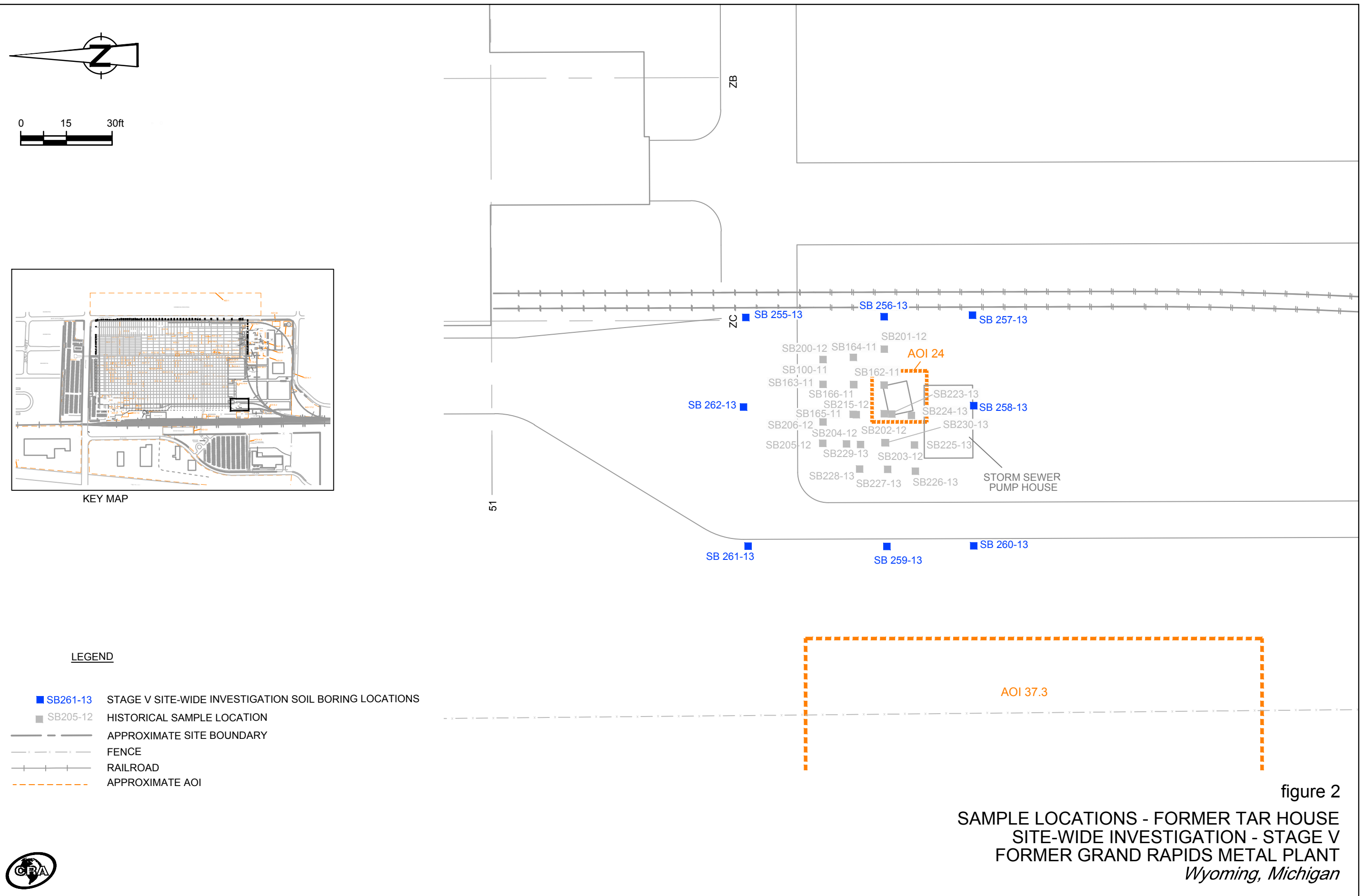
WYOMING, MICHIGAN

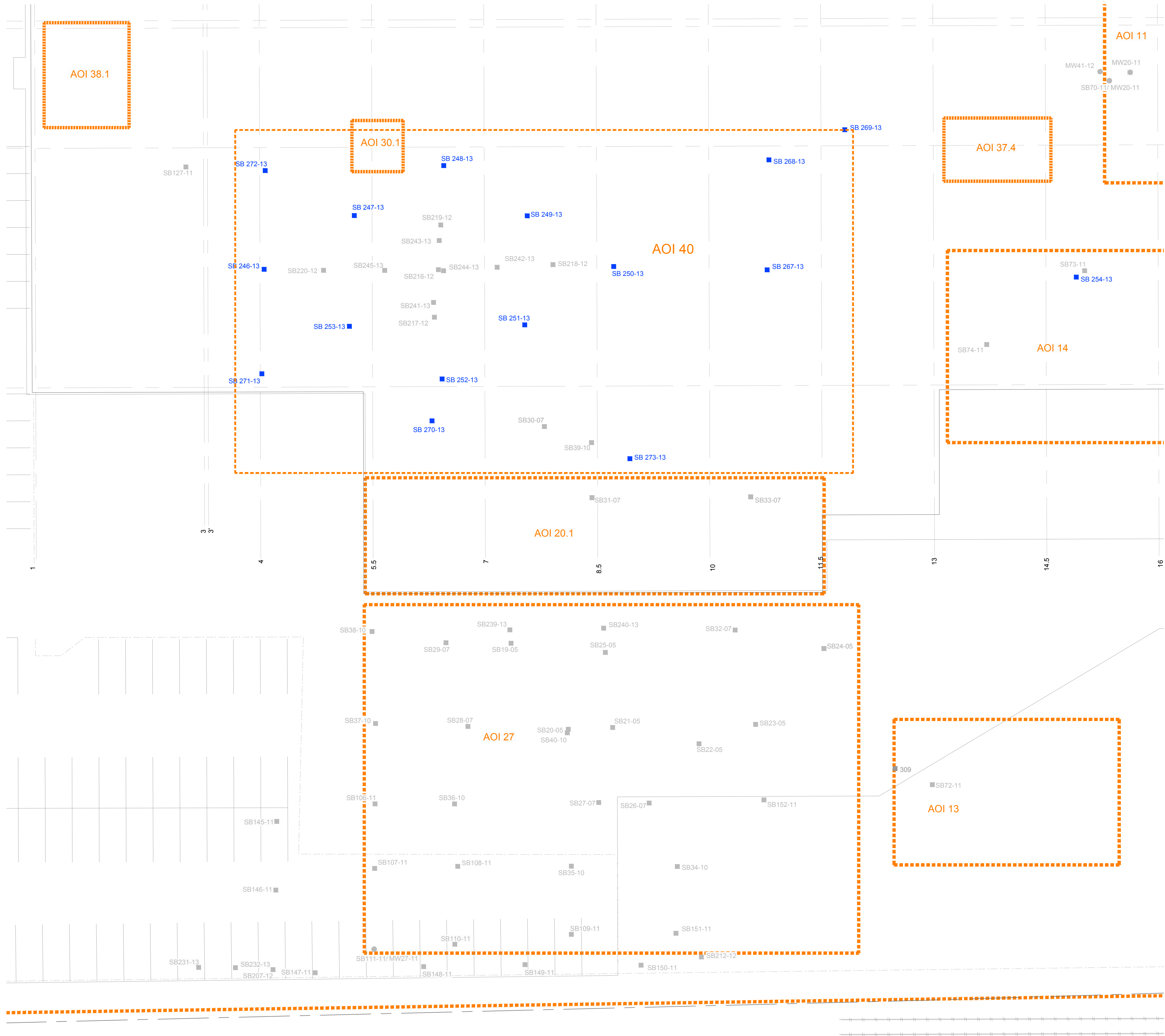
CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:	Reviewed By:	Date:
J.Q.	E.B.	SEPTEMBER 2013

Scale:	Project N°:	Report N°:	Drawing N°:
1:140	017360-T05	MEMO067	Figure 1





No	Revision	Date	Initial

LEGEND

- SB254-13 STAGE V SITE-WIDE INVESTIGATION SOIL BORING LOCATIONS
- TW20-2 HISTORICAL SAMPLE LOCATION
- MW6-03 HISTORICAL MONITORING WELL LOCATION
- MW25-11 DESTROYED MONITORING WELL LOCATION
- - - - - APPROXIMATE SITE BOUNDARY
- - - - - FENCE
- - - - - RAILROAD
- - - - - APPROXIMATE AOI

KEY MAP

SCALE VERIFICATION	
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.	

Approved	
DRAWING STATUS	
Status	Initial

SAMPLE LOCATIONS
BULK UNLOAD AND Zc-5.5 AREAS

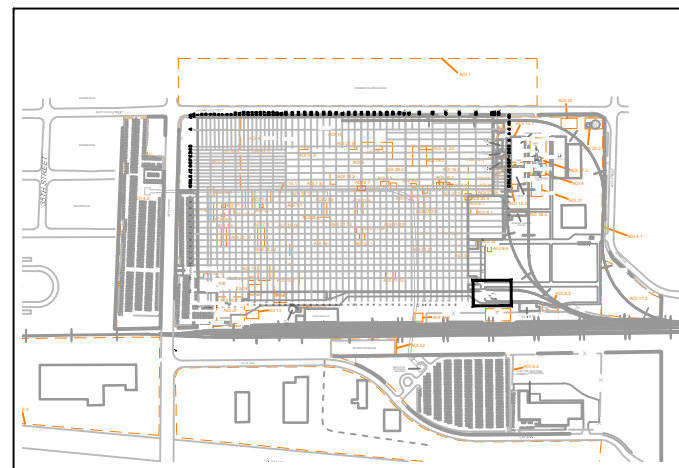
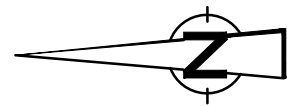
SITE-WIDE INVESTIGATION - STAGE V

FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager: J.Q.	Reviewed By: E.B.	Date: NOVEMBER 2013
Scale: 1:20	Project N°: 017360-T05	Report N°: MEMO067
		Drawing N°: Figure 3



KEY MAP

LEGEND

- SB261-13 STAGE V SITE-WIDE INVESTIGATION SOIL BORING LOCATIONS
- SB205-12 HISTORICAL SAMPLE LOCATION
- APPROXIMATE SITE BOUNDARY
- FENCE
- RAILROAD
- APPROXIMATE AOI

NOTE: SEE TABLE 2 FOR APPLICABLE CRITERIA AND NOTES

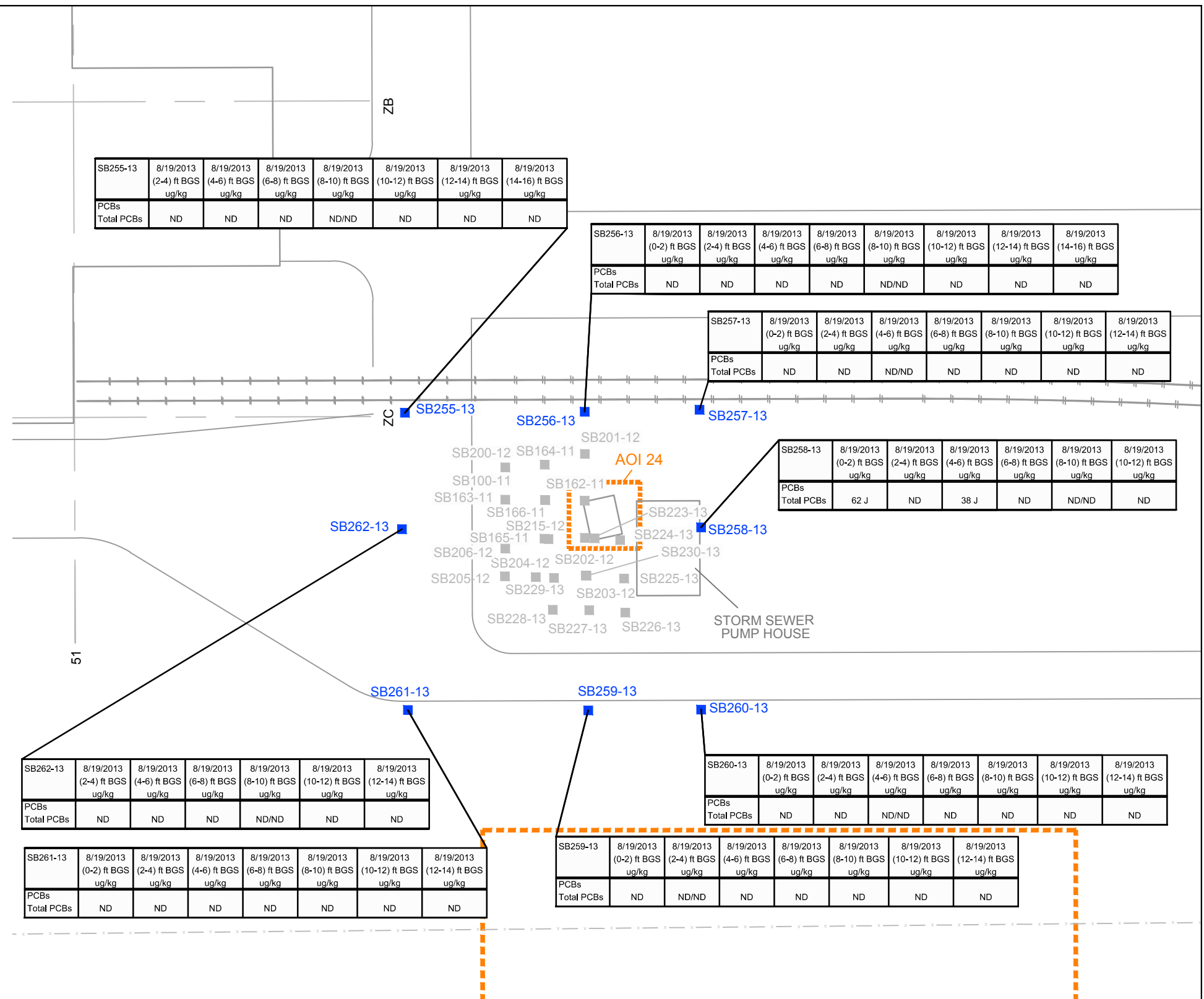
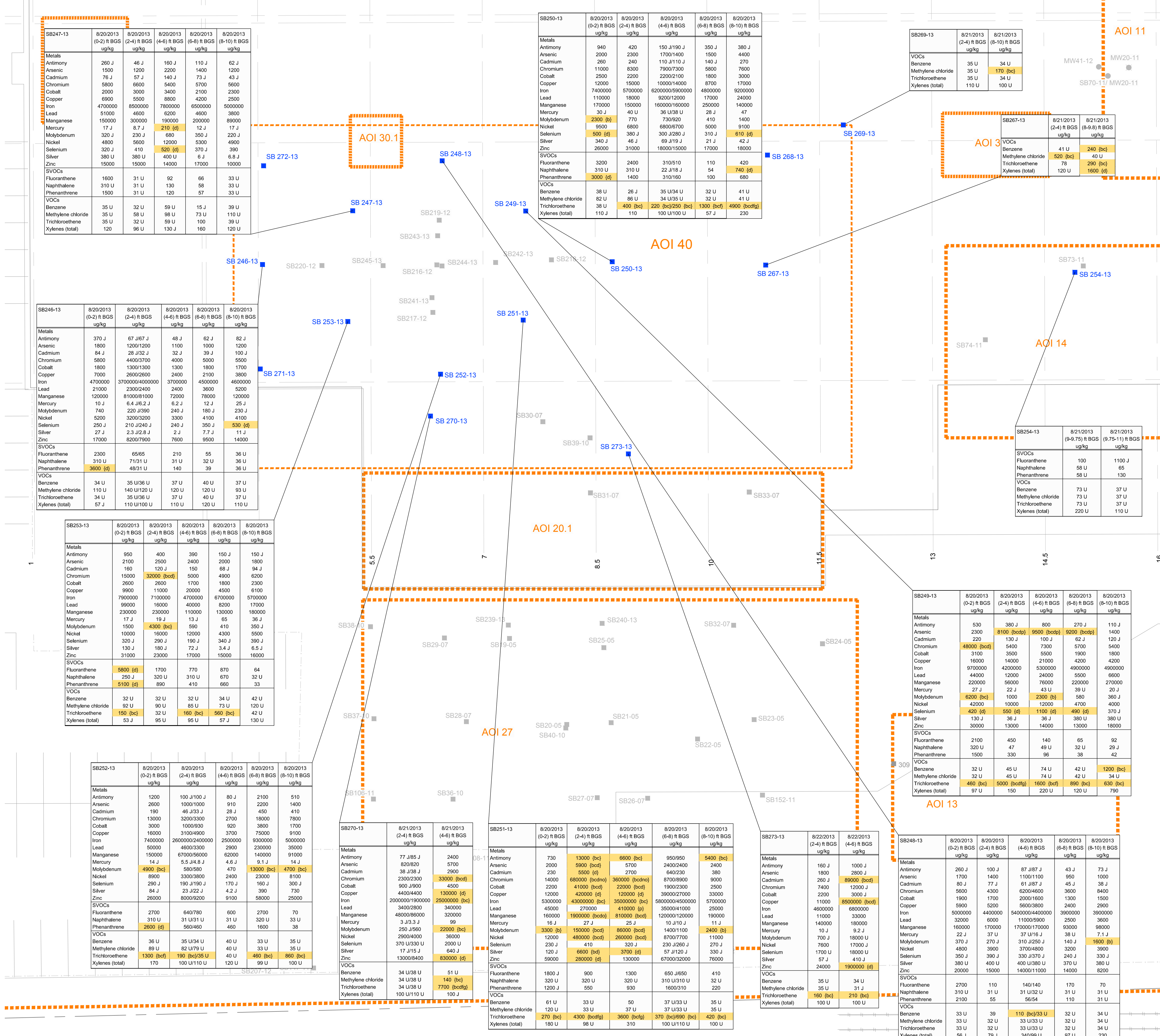


figure 5

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
FORMER TAR HOUSE - STAGE V SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
Wyoming, Michigan



No

Revision

Date

Initial

0

10

20ft

LEGEND

SB254-13

STAGE V SITE-WIDE INVESTIGATION SOIL BORING LOCATIONS

TW20-2

HISTORICAL SAMPLE LOCATION

MW6-03

HISTORICAL MONITORING WELL LOCATION

MW25-11

DESTROYED MONITORING WELL LOCATION

APPROXIMATE SITE BOUNDARY

FENCE

RAILROAD

COLE DRAIN

APPROXIMATE AOI

NOTE: SEE TABLE 2 FOR APPLICABLE CRITERIA AND NOTES

KEY MAP

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Summary of Detections for Soil Samples
Zc-5.5 AREA

SITE-WIDE INVESTIGATION - STAGE V

FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Source Reference:

Project Manager:
J.Q.

Reviewed By:
E.B.

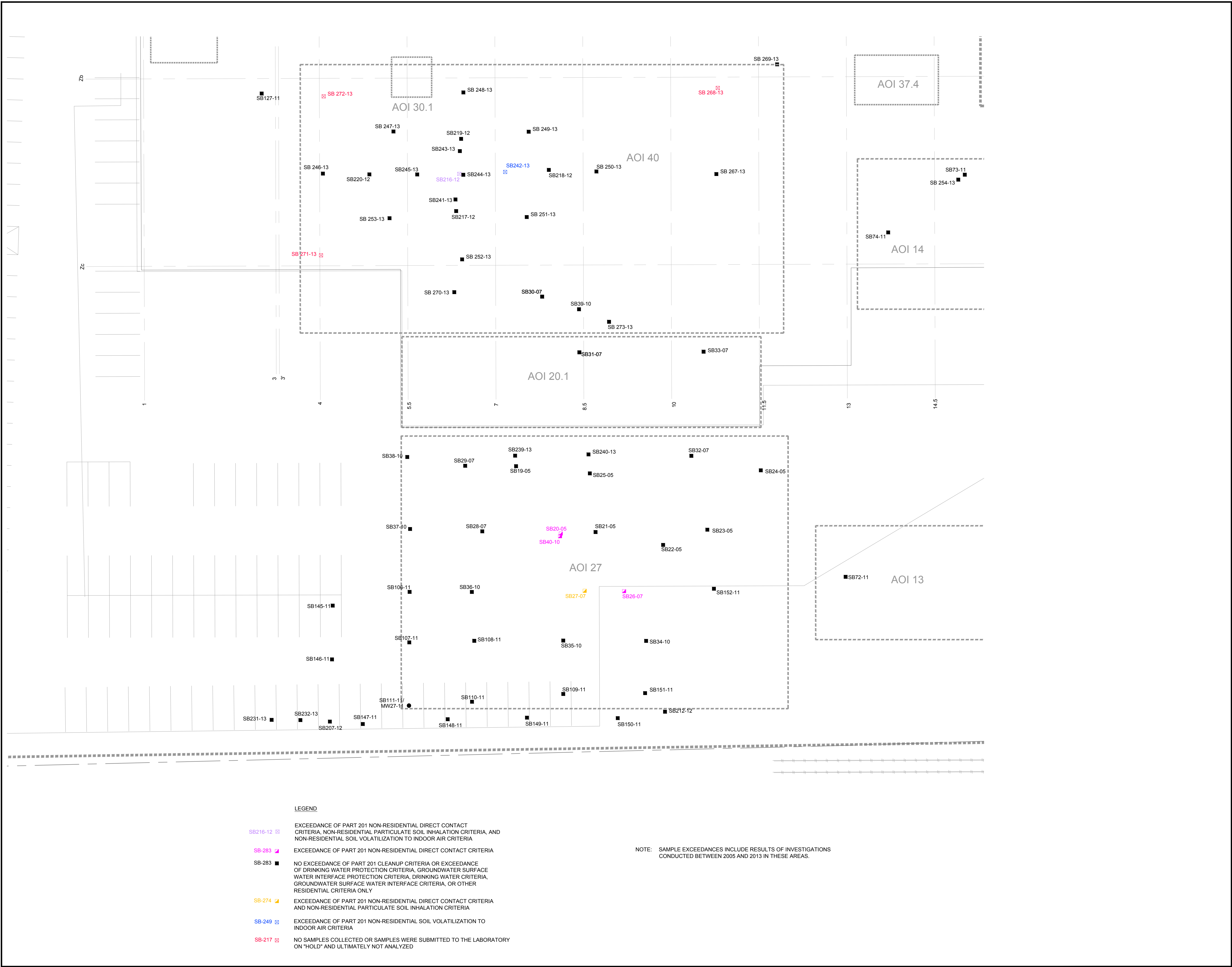
Date:
NOVEMBER 2013

Scale:
1:20

Project N°:
017360-T05

Report N°:
MEMO067

Drawing N°:
Figure 6



No	Revision	Date	Initial

0 10 20ft

LEGEND

- SB222-13 SOIL BORING LOCATIONS
- MW58-13 MONITORING WELL LOCATION
- MW25-11 DESTROYED MONITORING WELL LOCATION
- APPROXIMATE SITE BOUNDARY
- RAILROAD
- - - AREA OF INTEREST

KEY MAP

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

PART 201 EXCEEDANCES AND SOIL SAMPLE LOCATIONS - 0 to 2 ft. bgs

SUMMARY OF INVESTIGATIONS

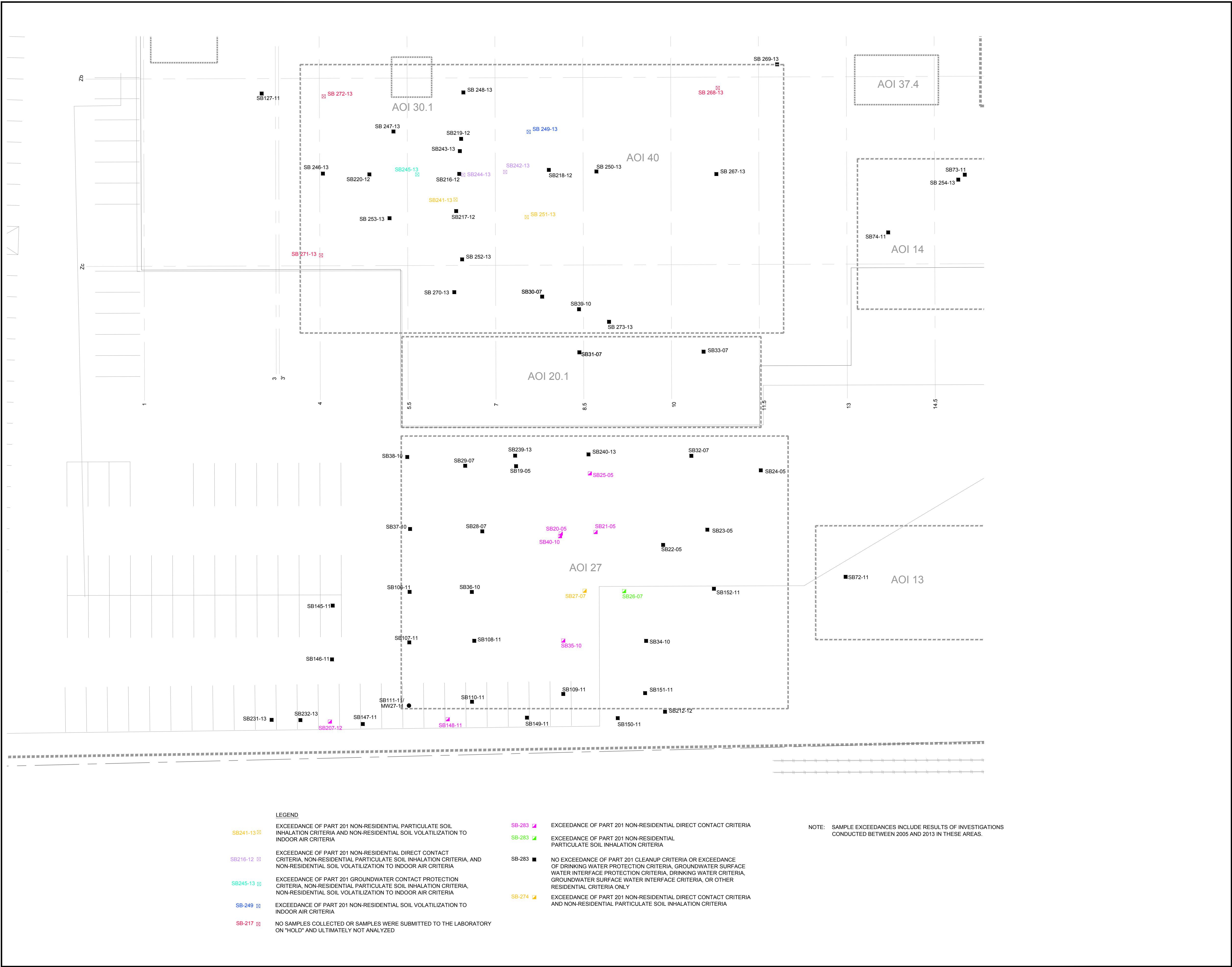
FORMER GRAND RAPIDS METAL PLANT WYOMING, MICHIGAN

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:	Reviewed By:	Date:
J.Q.	E.B.	NOVEMBER 2013

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1:20	017360-T05	MEMO067	Figure 7



- SB241-13

EXCEEDANCE OF PART 201 NON-RESIDENTIAL PARTICULATE SOIL INHALATION CRITERIA AND NON-RESIDENTIAL SOIL VOLATILIZATION TO INDOOR AIR CRITERIA
- SB216-12

EXCEEDANCE OF PART 201 NON-RESIDENTIAL DIRECT CONTACT CRITERIA, NON-RESIDENTIAL PARTICULATE SOIL INHALATION CRITERIA, AND NON-RESIDENTIAL SOIL VOLATILIZATION TO INDOOR AIR CRITERIA
- SB245-13

EXCEEDANCE OF PART 201 GROUNDWATER CONTACT PROTECTION CRITERIA, NON-RESIDENTIAL PARTICULATE SOIL INHALATION CRITERIA, NON-RESIDENTIAL SOIL VOLATILIZATION TO INDOOR AIR CRITERIA
- SB-249

EXCEEDANCE OF PART 201 NON-RESIDENTIAL SOIL VOLATILIZATION TO INDOOR AIR CRITERIA
- SB-217

NO SAMPLES COLLECTED OR SAMPLES WERE SUBMITTED TO THE LABORATORY ON "HOLD" AND ULTIMATELY NOT ANALYZED
- SB-283

EXCEEDANCE OF PART 201 NON-RESIDENTIAL DIRECT CONTACT CRITERIA
- SB-283

EXCEEDANCE OF PART 201 NON-RESIDENTIAL PARTICULATE SOIL INHALATION CRITERIA
- SB-283

NO EXCEEDANCE OF PART 201 CLEANUP CRITERIA OR EXCEEDANCE OF DRINKING WATER PROTECTION CRITERIA, GROUNDWATER SURFACE WATER INTERFACE PROTECTION CRITERIA, DRINKING WATER CRITERIA, GROUNDWATER SURFACE WATER INTERFACE CRITERIA, OR OTHER RESIDENTIAL CRITERIA ONLY
- SB-274

EXCEEDANCE OF PART 201 NON-RESIDENTIAL DIRECT CONTACT CRITERIA AND NON-RESIDENTIAL PARTICULATE SOIL INHALATION CRITERIA

NOTE: SAMPLE EXCEEDANCES INCLUDE RESULTS OF INVESTIGATIONS CONDUCTED BETWEEN 2005 AND 2013 IN THESE AREAS.

No	Revision	Date	Initial

0

10

20ft

2

LEGEND

■ SB222-13

SOIL BORING LOCATIONS

● MW58-13

MONITORING WELL LOCATION

■ MW25-11

DESTROYED MONITORING WELL LOCATION

APPROXIMATE SITE BOUNDARY

RAILROAD

AREA OF INTEREST

KEY MAP

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS		
Status	Date	Initial

PART 201 EXCEEDANCES AND SOIL SAMPLE LOCATIONS - 2 to 4 ft. bgs

SUMMARY OF INVESTIGATIONS

FORMER GRAND RAPIDS METAL PLANT WYOMING, MICHIGAN

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:

J.Q.

Reviewed By:

E.B.

Date:

NOVEMBER 2013

Scale:

1:20

Project N°:

017360-T05

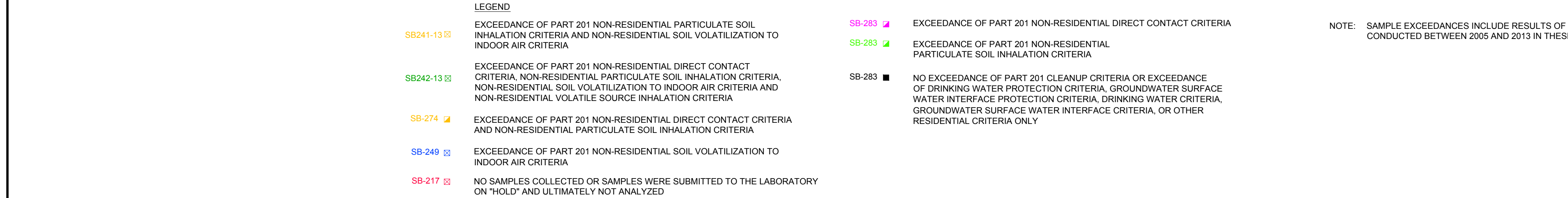
Report N°:

MEMO067

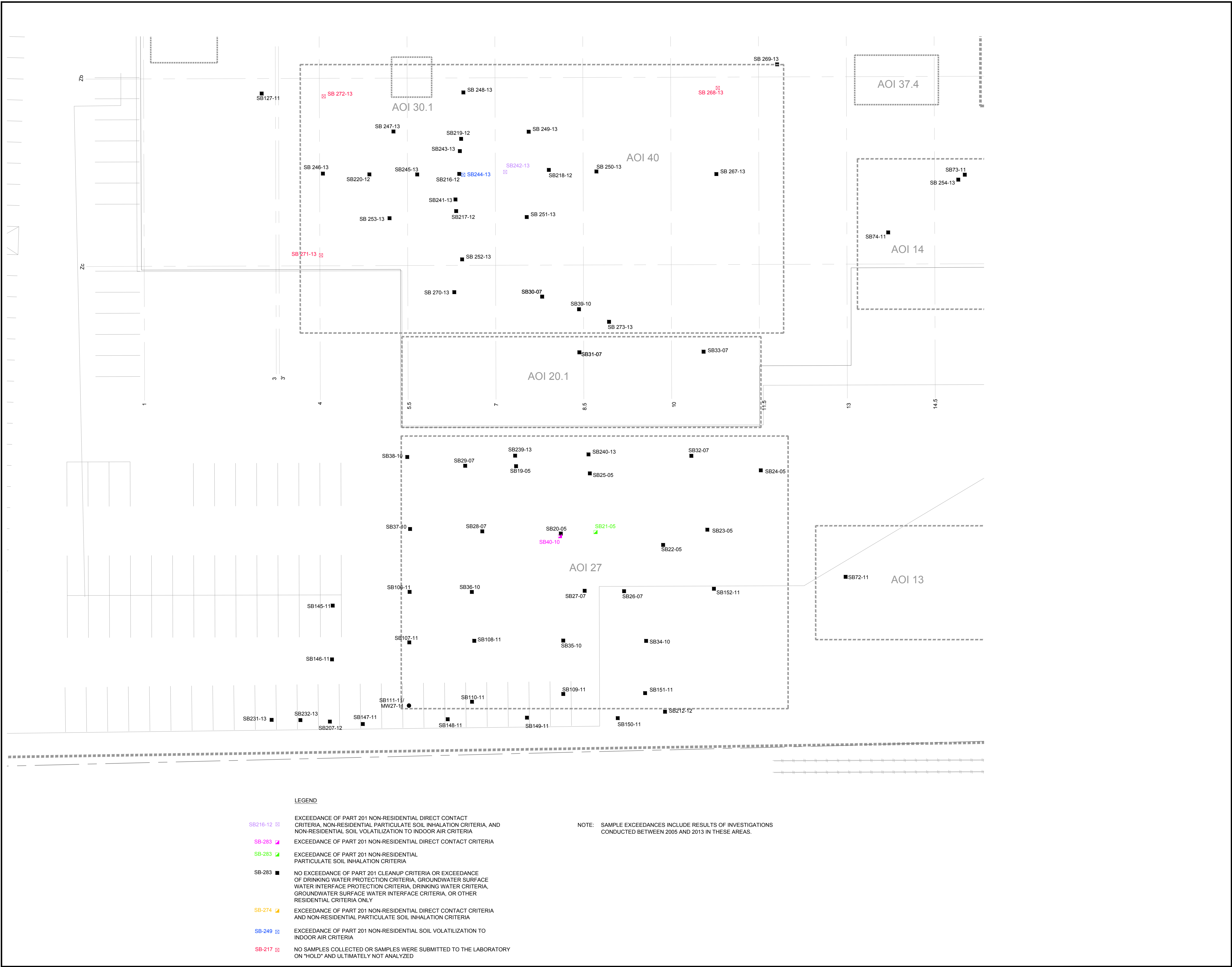
Drawing N°:

Figure 8

017360-T05(MEMO067)GN-DE005 NOV 12/2013



 CONESTOGA-ROVERS & ASSOCIATES			
Source Reference:			
Project Manager:	Reviewed By:	Date:	
J.Q.	E.B.	NOVEMBER 2013	
Scale:	Project N ^o :	Report N ^o :	Drawing N ^o :
1:20	017360-T05	MEMO067	Figure 9



No	Revision	Date	Initial

0 10 20ft

LEGEND

- SB222-13 SOIL BORING LOCATIONS
- MW58-13 MONITORING WELL LOCATION
- MW25-11 DESTROYED MONITORING WELL LOCATION
- APPROXIMATE SITE BOUNDARY
- RAILROAD
- - - AREA OF INTEREST

KEY MAP

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

PART 201 EXCEEDANCES AND SOIL SAMPLE LOCATIONS - 6 to 8 ft. bgs

SUMMARY OF INVESTIGATIONS

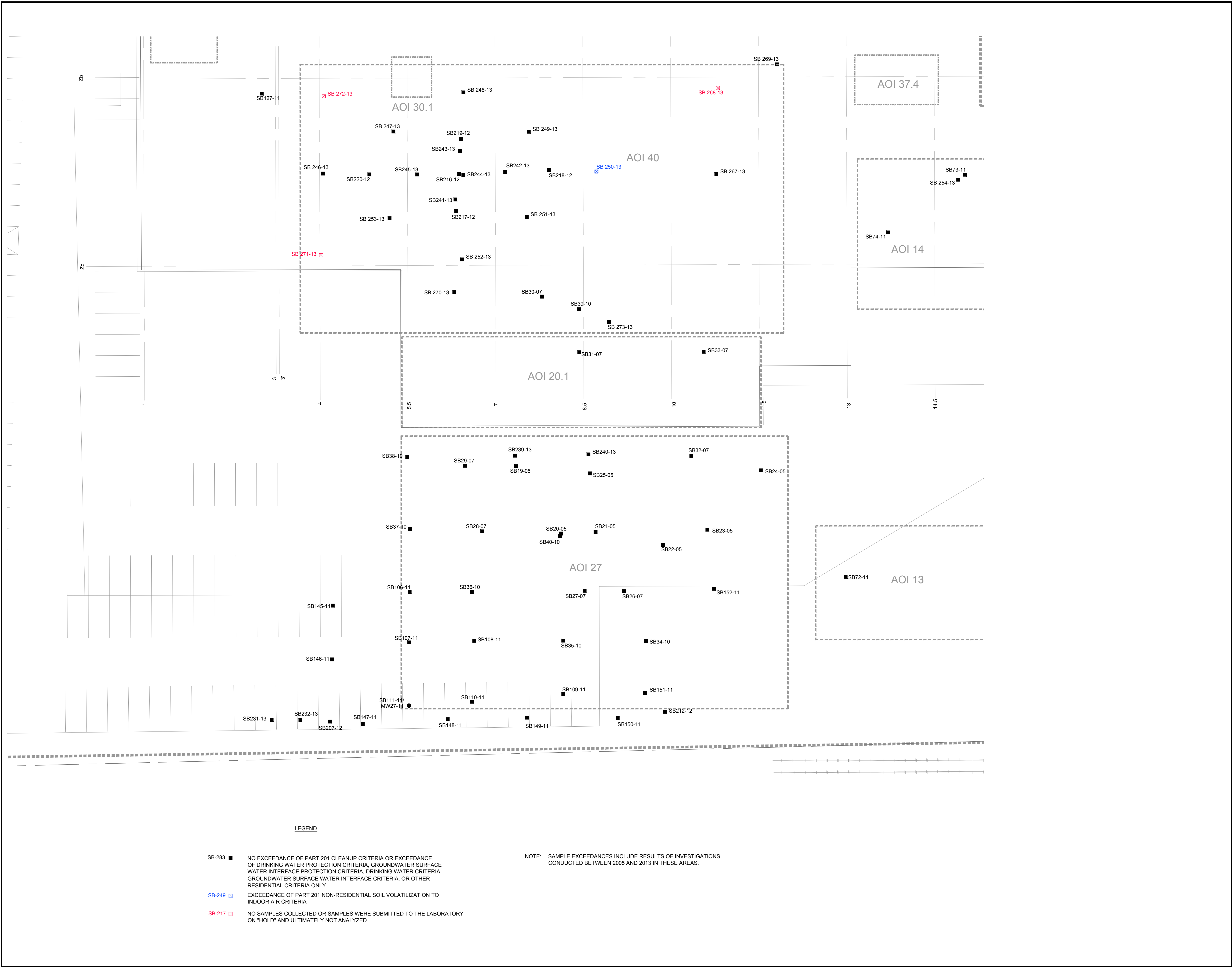
FORMER GRAND RAPIDS METAL PLANT WYOMING, MICHIGAN

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:	Reviewed By:	Date:
J.Q.	E.B.	NOVEMBER 2013

Scale:	Project N°:	Report N°:	Drawing N°:
1:20	017360-T05	MEMO067	Figure 10



No	Revision	Date	Initial

LEGEND

■ SB222-13 SOIL BORING LOCATIONS

● MW58-13 MONITORING WELL LOCATION

■ MW25-11 DESTROYED MONITORING WELL LOCATION

— APPROXIMATE SITE BOUNDARY

— RAILROAD

- - - AREA OF INTEREST

KEY MAP

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

PART 201 EXCEEDANCES AND SOIL SAMPLE LOCATIONS - 8 to 10 ft. bgs

SUMMARY OF INVESTIGATIONS

FORMER GRAND RAPIDS METAL PLANT WYOMING, MICHIGAN

Source Reference:

Project Manager:	Reviewed By:	Date:
J.Q.	E.B.	NOVEMBER 2013

Scale:	Project N°:	Report N°:	Drawing N°:
1:20	017360-T05	MEMO067	Figure 11

TABLE 1
SAMPLE SUMMARY
SITE-WIDE INVESTIGATION DATA PACKAGE - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

<u>Sample Date</u>	<u>Sample Identification</u>	<u>Sample Location</u>	<u>Matrix</u>	<u>Sample Depth</u> <u>(ft bgs)</u>	<u>QC Sample</u>	<u>Analysis</u>
8/20/2013	SO-17360-082013-MR-089	SB246-13	Soil	0 to 2	Duplicate	VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-090	SB246-13	Soil	2 to 4		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-091	SB246-13	Soil	2 to 4		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-092	SB246-13	Soil	4 to 6		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-093	SB246-13	Soil	6 to 8		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-094	SB246-13	Soil	8 to 10		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-085	SB247-13	Soil	0 to 2		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-086	SB247-13	Soil	2 to 4		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-087	SB247-13	Soil	4 to 6		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-088	SB247-13	Soil	6 to 8		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-089	SB247-13	Soil	8 to 10	MS/MSD	VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-078	SB248-13	Soil	0 to 2		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-079	SB248-13	Soil	2 to 4		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-080	SB248-13	Soil	4 to 6		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-081	SB248-13	Soil	4 to 6		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-082	SB248-13	Soil	6 to 8		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-084	SB248-13	Soil	8 to 10		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-073	SB249-13	Soil	0 to 2		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-074	SB249-13	Soil	2 to 4		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-075	SB249-13	Soil	4 to 6		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-076	SB249-13	Soil	6 to 8	Duplicate	VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-077	SB249-13	Soil	8 to 10		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-067	SB250-13	Soil	0 to 2		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-068	SB250-13	Soil	2 to 4		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-069	SB250-13	Soil	4 to 6		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-070	SB250-13	Soil	4 to 6		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-071	SB250-13	Soil	6 to 8		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-072	SB250-13	Soil	8 to 10		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-106	SB251-13	Soil	0 to 2		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-108	SB251-13	Soil	2 to 4	MS/MSD	VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-109	SB251-13	Soil	4 to 6		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-110	SB251-13	Soil	6 to 8		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-111	SB251-13	Soil	6 to 8		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-112	SB251-13	Soil	8 to 10		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-100	SB252-13	Soil	0 to 2		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-101	SB252-13	Soil	2 to 4		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-102	SB252-13	Soil	2 to 4		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-103	SB252-13	Soil	4 to 6		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-104	SB252-13	Soil	6 to 8	Duplicate	VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-105	SB252-13	Soil	8 to 10		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-095	SB253-13	Soil	0 to 2		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-096	SB253-13	Soil	2 to 4		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-097	SB253-13	Soil	4 to 6		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-098	SB253-13	Soil	6 to 8		VOCs, PAHs, Metals
8/20/2013	SO-17360-082013-MR-099	SB253-13	Soil	8 to 10		VOCs, PAHs, Metals
8/21/2013	SO-17360-082113-MR-113	SB254-13	Soil	9 to 9.75		VOCs, SVOCs
8/21/2013	SO-17360-082113-MR-114	SB254-13	Soil	9.75 to 11		VOCs, SVOCs
8/19/2013	SO-17360-081913-MR-010	SB255-13	Soil	2 to 4	Duplicate	PCBs
8/19/2013	SO-17360-081913-MR-011	SB255-13	Soil	4 to 6		PCBs
8/19/2013	SO-17360-081913-MR-012	SB255-13	Soil	6 to 8		PCBs
8/19/2013	SO-17360-081913-MR-013	SB255-13	Soil	8 to 10		PCBs
8/19/2013	SO-17360-081913-MR-018	SB255-13	Soil	8 to 10		PCBs
8/19/2013	SO-17360-081913-MR-014	SB255-13	Soil	10 to 12		PCBs
8/19/2013	SO-17360-081913-MR-015	SB255-13	Soil	12 to 14		PCBs
8/19/2013	SO-17360-081913-MR-016	SB255-13	Soil	14 to 16		PCBs
8/19/2013	SO-17360-081913-MR-001	SB256-13	Soil	0 to 2	MS/MSD	PCBs
8/19/2013	SO-17360-081913-MR-002	SB256-13	Soil	2 to 4		PCBs
8/19/2013	SO-17360-081913-MR-003	SB256-13	Soil	4 to 6		PCBs
8/19/2013	SO-17360-081913-MR-004	SB256-13	Soil	6 to 8		PCBs
8/19/2013	SO-17360-081913-MR-005	SB256-13	Soil	8 to 10		PCBs
8/19/2013	SO-17360-081913-MR-009	SB256-13	Soil	8 to 10		PCBs
8/19/2013	SO-17360-081913-MR-006	SB256-13	Soil	10 to 12		PCBs
8/19/2013	SO-17360-081913-MR-006	SB256-13	Soil	12 to 14		PCBs
8/19/2013	SO-17360-081913-MR-058	SB257-13	Soil	0 to 2		PCBs

TABLE 1
SAMPLE SUMMARY
SITE-WIDE INVESTIGATION DATA PACKAGE - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

<u>Sample Date</u>	<u>Sample Identification</u>	<u>Sample Location</u>	<u>Matrix</u>	<u>Sample Depth</u> <u>(ft bgs)</u>	<u>QC Sample</u>	<u>Analysis</u>
8/19/2013	SO-17360-081913-MR-059	SB257-13	Soil	2 to 4		PCBs
8/19/2013	SO-17360-081913-MR-060	SB257-13	Soil	4 to 6		PCBs
8/19/2013	SO-17360-081913-MR-061	SB257-13	Soil	4 to 6	Duplicate	PCBs
8/19/2013	SO-17360-081913-MR-062	SB257-13	Soil	6 to 8	MS/MSD	PCBs
8/19/2013	SO-17360-081913-MR-064	SB257-13	Soil	8 to 10		PCBs
8/19/2013	SO-17360-081913-MR-065	SB257-13	Soil	10 to 12		PCBs
8/19/2013	SO-17360-081913-MR-066	SB257-13	Soil	12 to 14		PCBs
8/19/2013	SO-17360-081913-MR-051	SB258-13	Soil	0 to 2		PCBs
8/19/2013	SO-17360-081913-MR-052	SB258-13	Soil	2 to 4		PCBs
8/19/2013	SO-17360-081913-MR-053	SB258-13	Soil	4 to 6		PCBs
8/19/2013	SO-17360-081913-MR-054	SB258-13	Soil	6 to 8		PCBs
8/19/2013	SO-17360-081913-MR-055	SB258-13	Soil	8 to 10		PCBs
8/19/2013	SO-17360-081913-MR-056	SB258-13	Soil	8 to 10	Duplicate	PCBs
8/19/2013	SO-17360-081913-MR-057	SB258-13	Soil	10 to 12		PCBs
8/19/2013	SO-17360-081913-MR-034	SB259-13	Soil	0 to 2		PCBs
8/19/2013	SO-17360-081913-MR-035	SB259-13	Soil	2 to 4		PCBs
8/19/2013	SO-17360-081913-MR-036	SB259-13	Soil	2 to 4	Duplicate	PCBs
8/19/2013	SO-17360-081913-MR-037	SB259-13	Soil	4 to 6		PCBs
8/19/2013	SO-17360-081913-MR-038	SB259-13	Soil	6 to 8		PCBs
8/19/2013	SO-17360-081913-MR-039	SB259-13	Soil	8 to 10		PCBs
8/19/2013	SO-17360-081913-MR-040	SB259-13	Soil	10 to 12		PCBs
8/19/2013	SO-17360-081913-MR-041	SB259-13	Soil	12 to 14		PCBs
8/19/2013	SO-17360-081913-MR-042	SB260-13	Soil	0 to 2		PCBs
8/19/2013	SO-17360-081913-MR-043	SB260-13	Soil	2 to 4	MS/MSD	PCBs
8/19/2013	SO-17360-081913-MR-045	SB260-13	Soil	4 to 6		PCBs
8/19/2013	SO-17360-081913-MR-046	SB260-13	Soil	4 to 6	Duplicate	PCBs
8/19/2013	SO-17360-081913-MR-047	SB260-13	Soil	6 to 8		PCBs
8/19/2013	SO-17360-081913-MR-048	SB260-13	Soil	8 to 10		PCBs
8/19/2013	SO-17360-081913-MR-049	SB260-13	Soil	10 to 12		PCBs
8/19/2013	SO-17360-081913-MR-050	SB260-13	Soil	12 to 14		PCBs
8/19/2013	SO-17360-081913-MR-027	SB261-13	Soil	0 to 2		PCBs
8/19/2013	SO-17360-081913-MR-028	SB261-13	Soil	2 to 4		PCBs
8/19/2013	SO-17360-081913-MR-029	SB261-13	Soil	4 to 6		PCBs
8/19/2013	SO-17360-081913-MR-030	SB261-13	Soil	6 to 8		PCBs
8/19/2013	SO-17360-081913-MR-031	SB261-13	Soil	8 to 10		PCBs
8/19/2013	SO-17360-081913-MR-032	SB261-13	Soil	10 to 12		PCBs
8/19/2013	SO-17360-081913-MR-033	SB261-13	Soil	12 to 14		PCBs
8/19/2013	SO-17360-081913-MR-019	SB262-13	Soil	2 to 4		PCBs
8/19/2013	SO-17360-081913-MR-020	SB262-13	Soil	4 to 6		PCBs
8/19/2013	SO-17360-081913-MR-021	SB262-13	Soil	6 to 8		PCBs
8/19/2013	SO-17360-081913-MR-022	SB262-13	Soil	8 to 10		PCBs
8/19/2013	SO-17360-081913-MR-023	SB262-13	Soil	8 to 10	Duplicate	PCBs
8/19/2013	SO-17360-081913-MR-024	SB262-13	Soil	10 to 12	MS/MSD	PCBs
8/19/2013	SO-17360-081913-MR-026	SB262-13	Soil	12 to 14		PCBs
8/22/2013	SO-17360-082213-MR-152	SB263-13	Soil	5 to 6		VOCs, PAHs, Metals, PCBs
8/22/2013	SO-17360-082213-MR-153	SB263-13	Soil	19 to 20		VOCs, PAHs, Metals, PCBs
8/22/2013	SO-17360-082213-MR-154	SB264-13	Soil	6 to 7		VOCs, PAHs, Metals, PCBs
8/22/2013	SO-17360-082213-MR-155	SB264-13	Soil	20 to 22		VOCs, PAHs, Metals, PCBs
8/22/2013	SO-17360-082213-MR-156	SB264-13	Soil	20 to 22	Duplicate	VOCs, PAHs, Metals, PCBs
8/22/2013	SO-17360-082213-MR-158	SB265-13	Soil	5 to 6		VOCs, PAHs, Metals, PCBs
8/22/2013	SO-17360-082213-MR-159	SB265-13	Soil	14 to 15		VOCs, PAHs, Metals, PCBs
8/22/2013	SO-17360-082213-MR-157	SB266-13	Soil	4 to 5		VOCs, PAHs, Metals, PCBs
8/21/2013	SO-17360-082113-MR-115	SB267-13	Soil	0 to 2		(1)
8/21/2013	SO-17360-082113-MR-116	SB267-13	Soil	2 to 4		VOCs
8/21/2013	SO-17360-082113-MR-117	SB267-13	Soil	4 to 6		(1)
8/21/2013	SO-17360-082113-MR-118	SB267-13	Soil	6 to 8		(1)
8/21/2013	SO-17360-082113-MR-119	SB267-13	Soil	8 to 9.8		VOCs
8/21/2013	SO-17360-082113-MR-120	SB267-13	Soil	10 to 12		(1)
8/21/2013	SO-17360-082113-MR-121	SB267-13	Soil	12.5 to 14.5		(1)
8/21/2013	WG-17360-082113-EB-122	TW-254-13	Groundwater	16 to 20		VOCs,SVOCs
8/21/2013	WG-17360-082113-EB-123	TW-254-13	Groundwater	16 to 20	Duplicate	VOCs,SVOCs
8/21/2013	SO-17360-082113-MR-124	SB267-13	Soil	0 to 2		(1)
8/21/2013	SO-17360-082113-MR-125	SB267-13	Soil	0 to 2	Duplicate	(1)
8/21/2013	SO-17360-082113-MR-126	SB269-13	Soil	2 to 4		VOCs
8/21/2013	SO-17360-082113-MR-127	SB269-13	Soil	4 to 6	MS/MSD	(1)
8/21/2013	SO-17360-082113-MR-128	SB269-13	Soil	6 to 8		(1)
8/21/2013	SO-17360-082113-MR-129	SB269-13	Soil	8 to 10		VOCs
8/21/2013	SO-17360-082113-MR-130	SB270-13	Soil	0 to 2		(1)
8/21/2013	SO-17360-082113-MR-131	SB270-13	Soil	2 to 4		Metals, VOCs

TABLE 1
SAMPLE SUMMARY
SITE-WIDE INVESTIGATION DATA PACKAGE - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

<u>Sample Date</u>	<u>Sample Identification</u>	<u>Sample Location</u>	<u>Matrix</u>	<u>Sample Depth</u> <u>(ft bgs)</u>	<u>QC Sample</u>	<u>Analysis</u>
8/21/2013	SO-17360-082113-MR-132	SB270-13	Soil	2 to 4	Duplicate	Metals, VOCs
8/21/2013	SO-17360-082113-MR-133	SB270-13	Soil	4 to 6		Metals, VOCs
8/21/2013	SO-17360-082113-MR-134	SB270-13	Soil	6 to 8		(1)
8/21/2013	SO-17360-082113-MR-135	SB270-13	Soil	8 to 10		(1)
8/22/2013	SO-17360-082113-MR-136	SB271-13	Soil	0 to 2		(1)
8/22/2013	SO-17360-082113-MR-137	SB271-13	Soil	2 to 4		(1)
8/22/2013	SO-17360-082113-MR-138	SB271-13	Soil	4 to 6		(1)
8/22/2013	SO-17360-082113-MR-139	SB271-13	Soil	6 to 8		(1)
8/22/2013	SO-17360-082113-MR-140	SB271-13	Soil	8 to 10		(1)
8/22/2013	SO-17360-082113-MR-141	SB272-13	Soil	0 to 2		(1)
8/22/2013	SO-17360-082113-MR-142	SB272-13	Soil	2 to 4		(1)
8/22/2013	SO-17360-082113-MR-143	SB272-13	Soil	4 to 6		(1)
8/22/2013	SO-17360-082113-MR-144	SB272-13	Soil	6 to 8		(1)
8/22/2013	SO-17360-082113-MR-145	SB272-13	Soil	6 to 8	Duplicate	(1)
8/22/2013	SO-17360-082113-MR-146	SB272-13	Soil	8 to 10		(1)
8/22/2013	SO-17360-082113-MR-147	SB273-13	Soil	0 to 2		(1)
8/22/2013	SO-17360-082213-MR-148	SB273-13	Soil	2 to 4		Metals, VOCs
8/22/2013	SO-17360-082213-MR-149	SB273-13	Soil	4 to 6		Metals, VOCs
8/22/2013	SO-17360-082213-MR-150	SB273-13	Soil	6 to 8		(1)
8/22/2013	SO-17360-082213-MR-151	SB273-13	Soil	8 to 10		(1)
8/22/2013	TB-17360-082213-MR-160	Trip Blank	--		Trip Blank	VOCs
8/22/2013	TB-17360-082213-MR-161	Trip Blank	--		Trip Blank	VOCs
8/22/2013	TB-17360-082213-MR-162	Trip Blank	--		Trip Blank	VOCs
8/22/2013	TB-17360-082213-MR-163	Trip Blank	--		Trip Blank	VOCs
8/22/2013	TB-17360-082213-MR-164	Trip Blank	--		Trip Blank	VOCs

Notes:

VOCs - Target Compound List Volatile Organic Compounds

SVOCs - Target Compound List Semi-Volatile Organic Compounds

PAHs - Polycyclic Aromatic Hydrocarbons

Metals - Antimony, Arsenic, Barium, Beryllium, Cadmium, total Chromium, Cobalt, Copper,
Lead, Manganese, Mercury, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc

PCBs - Polychlorinated Biphenyls

QC - Quality Control

MS/MSD - Matrix Spike /Matrix Spike Duplicate

⁽¹⁾ Sample collected but not analyzed

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

		<i>Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic Cleanup Criteria ⁽¹⁾</i>									
		Statewide Default Background	Residential Drinking Water Protection	Non-Residential Drinking Water Protection	Groundwater Surface Water Interface Protection ⁽²⁾	Groundwater Contact Protection	Residential Soil Volatilization to Indoor Air Inhalation	Non-Residential Soil Volatilization to Indoor Air Inhalation	Residential Infinite Source Volatile Soil Inhalation	Non-Residential Infinite Source Volatile Soil Inhalation	Residential Finite VSIC for 5 Meter Source Thickness
		a	b	c	d	e	f	g	h	i	j
<i>Metals</i>	<i>Units</i>										
Antimony	µg/kg	NA	4300	4300	94000	49000000	NLV	NLV	NLV	NLV	NLV
Arsenic	µg/kg	5800	4600	4600	4600	2000000	NLV	NLV	NLV	NLV	NLV
Barium	µg/kg	75000	1300000	1300000	440000	1000000000	NLV	NLV	NLV	NLV	NLV
Beryllium	µg/kg	NA	51000	51000	84000	1000000000	NLV	NLV	NLV	NLV	NLV
Cadmium	µg/kg	1200	6000	6000	3000	230000000	NLV	NLV	NLV	NLV	NLV
Chromium	µg/kg	18000	30000	30000	3300	140000000	NLV	NLV	NLV	NLV	NLV
Cobalt	µg/kg	6800	800	2000	2000	480000000	NLV	NLV	NLV	NLV	NLV
Copper	µg/kg	32000	5800000	5800000	75000	1000000000	NLV	NLV	NLV	NLV	NLV
Iron	µg/kg	12000000	6000	6000	NA	1000000000	NLV	NLV	NLV	NLV	NLV
Lead	µg/kg	21000	700000	700000	2500000	ID	NLV	NLV	NLV	NLV	NLV
Manganese	µg/kg	440000	1000	1000	26000	180000000	NLV	NLV	NLV	NLV	NLV
Mercury	µg/kg	130	1700	1700	50	47000	48000	89000	52000	62000	52000
Molybdenum	µg/kg	NA	1500	4200	64000	19000000	NLV	NLV	NLV	NLV	NLV
Nickel	µg/kg	20000	100000	100000	76000	1000000000	NLV	NLV	NLV	NLV	NLV
Selenium	µg/kg	410	4000	4000	400	78000000	NLV	NLV	NLV	NLV	NLV
Silver	µg/kg	1000	4500	13000	100	200000000	NLV	NLV	NLV	NLV	NLV
Thallium	µg/kg	NA	2300	2300	4200	15000000	NLV	NLV	NLV	NLV	NLV
Vanadium	µg/kg	NA	72000	990000	430000	1000000000	NLV	NLV	NLV	NLV	NLV
Zinc	µg/kg	47000	2400000	5000000	170000	1000000000	NLV	NLV	NLV	NLV	NLV
<i>Polychlorinated Biphenyls (PCBs)</i>											
Aroclor-1016 (PCB-1016)	µg/kg	NA	NLL	NLL	NLL	NLL	3000000	16000000	240000	810000	7900000
Aroclor-1221 (PCB-1221)	µg/kg	NA	NLL	NLL	NLL	NLL	3000000	16000000	240000	810000	7900000
Aroclor-1232 (PCB-1232)	µg/kg	NA	NLL	NLL	NLL	NLL	3000000	16000000	240000	810000	7900000
Aroclor-1242 (PCB-1242)	µg/kg	NA	NLL	NLL	NLL	NLL	3000000	16000000	240000	810000	7900000
Aroclor-1248 (PCB-1248)	µg/kg	NA	NLL	NLL	NLL	NLL	3000000	16000000	240000	810000	7900000
Aroclor-1254 (PCB-1254)	µg/kg	NA	NLL	NLL	NLL	NLL	3000000	16000000	240000	810000	7900000
Aroclor-1260 (PCB-1260)	µg/kg	NA	NLL	NLL	NLL	NLL	3000000	16000000	240000	810000	7900000
Total PCBs	µg/kg	NA	NLL	NLL	NLL	NLL	3000000	16000000	240000	810000	7900000

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic Cleanup Criteria ⁽¹⁾									
Statewide Default Background	Residential Drinking Water Protection	Non-Residential Drinking Water Protection	Groundwater Surface Water Interface Protection ⁽²⁾	Groundwater Contact Protection	Residential Soil Volatilization to Indoor Air Inhalation	Non-Residential Soil Volatilization to Indoor Air Inhalation	Residential Infinite Source Volatile Soil Inhalation	Non-Residential Infinite Source Volatile Soil Inhalation	Residential Finite VSIC for 5 Meter Source Thickness
a	b	c	d	e	f	g	h	i	j
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	39000	110000	NA	9100000	NLV	NLV	NLV	NLV	NLV
NA	2400	9400	330	200000	NLV	NLV	NLV	NLV	NLV
NA	1500	4200	330	960000	NLV	NLV	NLV	NLV	NLV
NA	7400	20000	7600	10000000	NLV	NLV	NLV	NLV	NLV
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	430	640	NA	170000	NLV	NLV	NLV	NLV	NLV
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	620000	1800000	NA	2300000	ID	ID	ID	ID	ID
NA	900	2600	360	1900000	430000	800000	960000	1100000	960000
NA	57000	170000	4200	5500000	2700000	4900000	1500000	1800000	1500000
NA	7400	20000	1000	16000000	NLV	NLV	NLV	NLV	NLV
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	400	1200	ID	1600000	NLV	NLV	NLV	NLV	NLV
NA	2000	2000	2000	4600	NLV	NLV	NLV	NLV	NLV
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	830	830	NA	190000	NLV	NLV	NLV	NLV	NLV
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	5800	16000	280	3000000	NLV	NLV	NLV	NLV	NLV
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	7400	20000	1000	16000000	NLV	NLV	NLV	NLV	NLV
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	300000	880000	8700	970000	190000000	350000000	81000000	97000000	81000000
NA	5900	17000	ID	440000	1600000	3000000	2200000	2700000	2200000
NA	30000	88000	ID	1100000	1100000	1100000	44000000	52000000	44000000
NA	41000	41000	ID	41000	1000000000	1000000000	1400000000	1600000000	1400000000
NA	60	60	150	110000	NLV	NLV	NLV	NLV	NLV
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NLL	NLL	NLL	NLL	NLV	NLV	NLV	NLV	NLV
NA	NLL	NLL	NLL	NLL	NLV	NLV	NLV	NLV	NLV
NA	NLL	NLL	NLL	NLL	ID	ID	ID	ID	ID
NA	NLL	NLL	NLL	NLL	NLV	NLV	NLV	NLV	NLV
NA	NLL	NLL	NLL	NLL	NLV	NLV	NLV	NLV	NLV
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic Cleanup Criteria ⁽¹⁾											
		Statewide Default Background	Residential Drinking Water Protection	Non-Residential Drinking Water Protection	Groundwater Surface Water Interface Protection ⁽²⁾	Groundwater Contact Protection	Residential Soil Volatilization to Indoor Air Inhalation	Non-Residential Soil Volatilization to Indoor Air Inhalation	Residential Infinite Source Volatile Soil Inhalation	Non-Residential Infinite Source Volatile Soil Inhalation	Residential Finite VSIC for 5 Meter Source Thickness
		a	b	c	d	e	f	g	h	i	j
SVOCs (continued)											
bis(2-Chloroethyl)ether	µg/kg	NA	100	170	100	110000	8300	44000	3800	13000	3800
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	NA	NLL	NLL	NLL	NLL	NLV	NLV	NLV	NLV	NLV
Butyl benzylphthalate (BBP)	µg/kg	NA	310000	310000	120000	310000	NLV	NLV	NLV	NLV	NLV
Caprolactam	µg/kg	NA	120000	340000	NA	1000000000	NLV	NLV	NLV	NLV	NLV
Carbazole	µg/kg	NA	9400	39000	1100	820000	NLV	NLV	NLV	NLV	NLV
Chrysene	µg/kg	NA	NLL	NLL	NLL	NLL	ID	ID	ID	ID	ID
Dibenz(a,h)anthracene	µg/kg	NA	NLL	NLL	NLL	NLL	NLV	NLV	NLV	NLV	NLV
Dibenzofuran	µg/kg	NA	ID	ID	1700	ID	2000000	3600000	130000	160000	130000
Diethyl phthalate	µg/kg	NA	110000	320000	2200	740000	NLV	NLV	NLV	NLV	NLV
Dimethyl phthalate	µg/kg	NA	790000	790000	NA	790000	NLV	NLV	NLV	NLV	NLV
Di-n-butylphthalate (DBP)	µg/kg	NA	760000	760000	11000	760000	NLV	NLV	NLV	NLV	NLV
Di-n-octyl phthalate (DnOP)	µg/kg	NA	100000000	140000000	ID	140000000	NLV	NLV	NLV	NLV	NLV
Fluoranthene	µg/kg	NA	730000	730000	5500	730000	1000000000	1000000000	740000000	890000000	740000000
Fluorene	µg/kg	NA	390000	890000	5300	890000	580000000	1000000000	1300000000	1500000000	1300000000
Hexachlorobenzene	µg/kg	NA	1800	1800	350	8200	41000	220000	17000	56000	17000
Hexachlorobutadiene	µg/kg	NA	26000	72000	91	350000	130000	350000	130000	460000	130000
Hexachlorocyclopentadiene	µg/kg	NA	320000	320000	ID	720000	30000	56000	50000	60000	50000
Hexachloroethane	µg/kg	NA	430	1200	1800	110000	40000	79000	550000	660000	930000
Indeno(1,2,3-cd)pyrene	µg/kg	NA	NLL	NLL	NLL	NLL	NLV	NLV	NLV	NLV	NLV
Isophorone	µg/kg	NA	15000	62000	26000	2400000	NLV	NLV	NLV	NLV	NLV
Naphthalene	µg/kg	NA	35000	100000	730	2100000	250000	470000	300000	350000	300000
Nitrobenzene	µg/kg	NA	330	330	3600	220000	91000	170000	54000	64000	54000
N-Nitrosodi-n-propylamine	µg/kg	NA	330	330	NA	7200	NLV	NLV	NLV	NLV	NLV
N-Nitrosodiphenylamine	µg/kg	NA	5400	22000	NA	700000	NLV	NLV	NLV	NLV	NLV
Pentachlorophenol	µg/kg	NA	22	22	17000	4300	NLV	NLV	NLV	NLV	NLV
Phenanthrene	µg/kg	NA	56000	160000	2100	1100000	2800000	5100000	160000	190000	160000
Phenol	µg/kg	NA	88000	260000	9000	12000000	NLV	NLV	NLV	NLV	NLV
Pyrene	µg/kg	NA	480000	480000	ID	480000	1000000000	1000000000	650000000	780000000	650000000
Volatile Organic Compounds (VOCs)											
1,1,1-Trichloroethane	µg/kg	NA	4000	4000	1800	460000	250000	460000	3800000	4500000	12000000
1,1,2,2-Tetrachloroethane	µg/kg	NA	170	700	1600	94000	4300	23000	10000	34000	10000
1,1,2-Trichloroethane	µg/kg	NA	100	100	6600	420000	4600	24000	17000	57000	21000
1,1-Dichloroethane	µg/kg	NA	18000	50000	15000	890000	230000	430000	2100000	2500000	5900000
1,1-Dichloroethene	µg/kg	NA	140	140	2600	220000	62	330	1100	3700	5300
1,2,4-Trichlorobenzene	µg/kg	NA	4200	4200	5900	1100000	1100000	1100000	28000000	34000000	28000000
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NA	10	10	ID	1200	220	1200	260	900	260

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic Cleanup Criteria ⁽¹⁾											
	Statewide Default Background	Residential Drinking Water Protection	Non-Residential Drinking Water Protection	Groundwater Surface Water Interface Protection ⁽²⁾	Groundwater Contact Protection	Residential Soil Volatilization to Indoor Air Inhalation	Non-Residential Soil Volatilization to Indoor Air Inhalation	Residential Infinite Source Volatile Soil Inhalation	Non-Residential Infinite Source Volatile Soil Inhalation	Residential Finite VSIC for 5 Meter Source Thickness	
	a	b	c	d	e	f	g	h	i	j	
VOCs (cont'd)											
1,2-Dibromoethane ⁽⁶⁾	µg/kg	NA	20	110	500	670	3600	1700	5800	1700	
1,2-Dichlorobenzene	µg/kg	NA	14000	14000	280	210000	210000	39000000	46000000	39000000	
1,2-Dichloroethane	µg/kg	NA	100	100	7200	380000	2100	11000	6200	11000	
1,2-Dichloropropane	µg/kg	NA	100	100	4600	320000	4000	7400	25000	30000	
1,3-Dichlorobenzene	µg/kg	NA	170	480	680	51000	26000	48000	79000	94000	
1,4-Dichlorobenzene	µg/kg	NA	1700	1700	360	140000	19000	100000	77000	260000	
2-Butanone ⁽⁷⁾	µg/kg	NA	2600000	760000	44000	27000000	27000000	29000000	35000000	29000000	
2-Hexanone	µg/kg	NA	20000	58000	ID	2500000	990000	1800000	1100000	1300000	
4-Methyl-2-pentanone ⁽⁸⁾	µg/kg	NA	36000	100000	ID	2700000	2700000	2700000	45000000	53000000	
Acetone	µg/kg	NA	15000	42000	34000	110000000	110000000	130000000	160000000	130000000	
Benzene	µg/kg	NA	100	100	4000	220000	1600	8400	13000	45000	
Bromodichloromethane	µg/kg	NA	1600	1600	ID	280000	1200	6400	9100	31000	
Bromoform	µg/kg	NA	1600	1600	ID	870000	150000	770000	900000	3100000	
Bromomethane (Methyl bromide)	µg/kg	NA	200	580	700	1400000	860	1600	11000	13000	
Carbon disulfide	µg/kg	NA	16000	46000	ID	280000	76000	140000	1300000	1600000	
Carbon tetrachloride	µg/kg	NA	100	100	900	92000	190	990	3500	12000	
Chlorobenzene	µg/kg	NA	2000	2000	500	260000	120000	220000	770000	920000	
Chloroethane	µg/kg	NA	8600	34000	22000	950000	950000	950000	30000000	36000000	
Chloroform (Trichloromethane)	µg/kg	NA	1600	1600	7000	1500000	7200	38000	45000	150000	
Chloromethane (Methyl chloride)	µg/kg	NA	5200	22000	ID	1100000	2300	10000	40000	120000	
cis-1,2-Dichloroethene	µg/kg	NA	1400	1400	12000	640000	22000	41000	180000	210000	
cis-1,3-Dichloropropene	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cyclohexane	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dibromochloromethane	µg/kg	NA	1600	1600	ID	360000	3900	21000	24000	80000	
Dichlorodifluoromethane (CFC-12)	µg/kg	NA	95000	270000	ID	1000000	900000	1700000	53000000	63000000	
Ethylbenzene	µg/kg	NA	1500	1500	360	140000	87000	140000	720000	2400000	
Isopropyl benzene	µg/kg	NA	91000	260000	3200	390000	390000	390000	1700000	2000000	
Methyl acetate	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Methyl cyclohexane	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Methyl tert butyl ether (MTBE)	µg/kg	NA	800	800	140000	5900000	5900000	5900000	25000000	30000000	
Methylene chloride	µg/kg	NA	100	100	30000	2300000	45000	240000	210000	700000	
Styrene	µg/kg	NA	2700	2700	2100	270000	250000	520000	970000	3300000	
Tetrachloroethene	µg/kg	NA	100	100	1200	88000	11000	21000	170000	210000	
Toluene	µg/kg	NA	16000	16000	5400	250000	250000	250000	2800000	3300000	
trans-1,2-Dichloroethene	µg/kg	NA	2000	2000	30000	1400000	23000	43000	280000	330000	
trans-1,3-Dichloropropene	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Trichloroethene	µg/kg	NA	100	100	4000	440000	1000	1900	11000	14000	
Trichlorofluoromethane (CFC-11)	µg/kg	NA	52000	150000	NA	560000	560000	560000	92000000	110000000	
Trifluorotrichloroethane (Freon 113)	µg/kg	NA	550000	550000	1700	550000	550000	550000	180000000	210000000	
Vinyl chloride	µg/kg	NA	40	40	260	20000	270	2800	4200	29000	
Xylenes (total)	µg/kg	NA	5600	5600	820	150000	150000	150000	46000000	54000000	

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

<i>Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic Cleanup Criteria</i> ⁽¹⁾									
Statewide Default	Residential Drinking	Non-Residential Drinking	Groundwater Surface Water	Groundwater Contact	Residential Soil Volatilization	Non-Residential Soil Volatilization	Residential Infinite Source	Non-Residential Infinite Source	Residential Finite VSIC for
Background	Water Protection	Water Protection	Interface Protection ⁽²⁾	Protection	to Indoor Air Inhalation	to Indoor Air Inhalation	Volatile Soil Inhalation	Volatile Soil Inhalation	5 Meter Source Thickness
a	b	c	d	e	f	g	h	i	j

Notes:

⁽¹⁾ Cleanup criteria identified by MDEQ RRD
Op Memo No. 1, updated 9/28/2012,
pursuant to 1994 PA 451 as amended.

⁽²⁾ Carbonate Hardness of 344 mg/L was
used to calculate Groundwater-Surface

Water Interface Protection Criteria.

⁽³⁾ Toxic Substances Control Act (TSCA) Criterion for
bulk PCB remediation waste in High Occupancy Areas
without further conditions (40 CFR 761.61(a)(4)(i)).

⁽⁴⁾ Toxic Substances Control Act (TSCA) Criterion for
bulk PCB remediation waste in High Occupancy Areas
with restrictions (40 CFR 761.61(a)(4)(i)).

⁽⁵⁾ 2,2'-Oxybis(1-chloropropane) also known as
(bis(2-Chloroisopropyl) ether).

⁽⁶⁾ 1,2-Dibromoethane also known as Ethylene dibromide.

⁽⁷⁾ 2-Butanone also known as Methyl ethyl ketone (MEK).

⁽⁸⁾ 4-Methyl-2-pentanone also known as
Methyl isobutyl ketone (MIBK).

J - Estimated concentration.

UJ - Estimated reporting limit.

ID - Insufficient data to develop criterion.

NA - A criterion or value is not available or,
in the case of background numbers, not applicable.

NLL - Hazardous substance is not likely to leach
under most soil conditions.

NLV - Hazardous substance is not likely to
volatilize under most conditions.

-- Parameter was not analyzed.

Exceeds Generic Cleanup Criteria.

Superscript letter notes the criterion exceeded.

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic Cleanup Criteria ⁽¹⁾

		Non-Residential Finite VSIC for 5 Meter Source Thickness k	Residential Finite VSIC for 2 Meter Source Thickness l	Non-Residential Finite VSIC for 2 Meter Source Thickness m	Residential Particulate Soil Inhalation n	Non-Residential Particulate Soil Inhalation o	Residential Direct Contact p	Non-Residential Direct Contact q	Soil Saturation Concentration Screening r	TSCA ⁽³⁾ s	TSCA ⁽⁴⁾ t
Metals	Units										
Antimony	µg/kg	NLV	NLV	NLV	13000000	5900000	180000	670000	NA	NA	NA
Arsenic	µg/kg	NLV	NLV	NLV	720000	910000	7600	37000	NA	NA	NA
Barium	µg/kg	NLV	NLV	NLV	330000000	150000000	37000000	130000000	NA	NA	NA
Beryllium	µg/kg	NLV	NLV	NLV	1300000	590000	410000	1600000	NA	NA	NA
Cadmium	µg/kg	NLV	NLV	NLV	1700000	2200000	550000	2100000	NA	NA	NA
Chromium	µg/kg	NLV	NLV	NLV	260000	240000	2500000	9200000	NA	NA	NA
Cobalt	µg/kg	NLV	NLV	NLV	13000000	5900000	2600000	9000000	NA	NA	NA
Copper	µg/kg	NLV	NLV	NLV	130000000	59000000	20000000	73000000	NA	NA	NA
Iron	µg/kg	NLV	NLV	NLV	ID	ID	160000000	580000000	NA	NA	NA
Lead	µg/kg	NLV	NLV	NLV	100000000	44000000	400000	900000	NA	NA	NA
Manganese	µg/kg	NLV	NLV	NLV	3300000	1500000	25000000	90000000	NA	NA	NA
Mercury	µg/kg	62000	52000	62000	20000000	8800000	160000	580000	NA	NA	NA
Molybdenum	µg/kg	NLV	NLV	NLV	ID	ID	2600000	9600000	NA	NA	NA
Nickel	µg/kg	NLV	NLV	NLV	13000000	16000000	40000000	150000000	NA	NA	NA
Selenium	µg/kg	NLV	NLV	NLV	130000000	59000000	2600000	9600000	NA	NA	NA
Silver	µg/kg	NLV	NLV	NLV	6700000	2900000	2500000	9000000	NA	NA	NA
Thallium	µg/kg	NLV	NLV	NLV	13000000	5900000	35000	130000	NA	NA	NA
Vanadium	µg/kg	NLV	NLV	NLV	ID	ID	750000	5500000	NA	NA	NA
Zinc	µg/kg	NLV	NLV	NLV	ID	ID	170000000	630000000	NA	NA	NA
Polychlorinated Biphenyls (PCBs)											
Aroclor-1016 (PCB-1016)	µg/kg	28000000	7900000	28000000	5200000	6500000	4000	16000	NA	1000	10000
Aroclor-1221 (PCB-1221)	µg/kg	28000000	7900000	28000000	5200000	6500000	4000	16000	NA	1000	10000
Aroclor-1232 (PCB-1232)	µg/kg	28000000	7900000	28000000	5200000	6500000	4000	16000	NA	1000	10000
Aroclor-1242 (PCB-1242)	µg/kg	28000000	7900000	28000000	5200000	6500000	4000	16000	NA	1000	10000
Aroclor-1248 (PCB-1248)	µg/kg	28000000	7900000	28000000	5200000	6500000	4000	16000	NA	1000	10000
Aroclor-1254 (PCB-1254)	µg/kg	28000000	7900000	28000000	5200000	6500000	4000	16000	NA	1000	10000
Aroclor-1260 (PCB-1260)	µg/kg	28000000	7900000	28000000	5200000	6500000	4000	16000	NA	1000	10000
Total PCBs	µg/kg	28000000	7900000	28000000	5200000	6500000	4000	16000	NA	1000	10000

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic Cleanup Criteria ⁽¹⁾

		Non-Residential Finite VSIC for 5 Meter Source Thickness k	Residential Finite VSIC for 2 Meter Source Thickness l	Non-Residential Finite VSIC for 2 Meter Source Thickness m	Residential Particulate Soil Inhalation n	Non-Residential Particulate Soil Inhalation o	Residential Direct Contact p	Non-Residential Direct Contact q	Soil Saturation Concentration Screening r	TSCA ⁽³⁾ s	TSCA ⁽⁴⁾ t
<i>Semi-Volatile Organic Compounds (SVOCs)</i>											
2,2'-Oxybis(1-chloropropane) ⁽⁵⁾	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	µg/kg	NLV	NLV	NLV	23000000000	10000000000	23000000	73000000	NA	NA	NA
2,4,6-Trichlorophenol	µg/kg	NLV	NLV	NLV	1000000000	1300000000	710000	3300000	NA	NA	NA
2,4-Dichlorophenol	µg/kg	NLV	NLV	NLV	5100000000	2300000000	660000	1800000	1800000	NA	NA
2,4-Dimethylphenol	µg/kg	NLV	NLV	NLV	4700000000	2100000000	11000000	36000000	NA	NA	NA
2,4-Dinitrophenol	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	µg/kg	NLV	NLV	NLV	16000000	20000000	48000	220000	NA	NA	NA
2,6-Dinitrotoluene	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	µg/kg	ID	ID	ID	ID	ID	56000000	180000000	NA	NA	NA
2-Chlorophenol	µg/kg	1100000	960000	1100000	1200000000	530000000	1400000	4500000	19000000	NA	NA
2-Methylnaphthalene	µg/kg	1800000	1500000	1800000	670000000	290000000	8100000	26000000	NA	NA	NA
2-Methylphenol	µg/kg	NLV	NLV	NLV	6700000000	2900000000	11000000	36000000	NA	NA	NA
2-Nitroaniline	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	µg/kg	NLV	NLV	NLV	ID	ID	630000	2000000	NA	NA	NA
3,3'-Dichlorobenzidine	µg/kg	NLV	NLV	NLV	6500000	8200000	6600	30000	NA	NA	NA
3-Nitroaniline	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	µg/kg	NLV	NLV	NLV	130000000	59000000	79000	260000	NA	NA	NA
4-Bromophenyl phenyl ether	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	µg/kg	NLV	NLV	NLV	ID	ID	4500000	15000000	NA	NA	NA
4-Chloroaniline	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	µg/kg	NLV	NLV	NLV	6700000000	2900000000	11000000	36000000	NA	NA	NA
4-Nitroaniline	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	µg/kg	97000000	81000000	97000000	14000000000	6200000000	41000000	130000000	NA	NA	NA
Acenaphthylene	µg/kg	2700000	2200000	2700000	2300000000	1000000000	1600000	5200000	NA	NA	NA
Acetophenone	µg/kg	52000000	44000000	52000000	33000000000	14000000000	1100000	1100000	1100000	NA	NA
Anthracene	µg/kg	1600000000	1400000000	1600000000	67000000000	29000000000	230000000	730000000	NA	NA	NA
Atrazine	µg/kg	NLV	NLV	NLV	ID	ID	71000	330000	NA	NA	NA
Benzaldehyde	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	µg/kg	NLV	NLV	NLV	ID	ID	20000	80000	NA	NA	NA
Benzo(a)pyrene	µg/kg	NLV	NLV	NLV	1500000	1900000	2000	8000	NA	NA	NA
Benzo(b)fluoranthene	µg/kg	ID	ID	ID	ID	ID	20000	80000	NA	NA	NA
Benzo(g,h,i)perylene	µg/kg	NLV	NLV	NLV	800000000	350000000	2500000	7000000	NA	NA	NA
Benzo(k)fluoranthene	µg/kg	NLV	NLV	NLV	ID	ID	200000	800000	NA	NA	NA
Biphenyl (1,1-Biphenyl)	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic Cleanup Criteria ⁽¹⁾

		Non-Residential Finite VSIC for 5 Meter Source Thickness k	Residential Finite VSIC for 2 Meter Source Thickness l	Non-Residential Finite VSIC for 2 Meter Source Thickness m	Residential Particulate Soil Inhalation n	Non-Residential Particulate Soil Inhalation o	Residential Direct Contact p	Non-Residential Direct Contact q	Soil Saturation Concentration Screening r	TSCA ⁽³⁾ s	TSCA ⁽⁴⁾ t
SVOCs (continued)											
bis(2-Chloroethyl)ether	µg/kg	13000	3800	13000	9400000	12000000	13000	58000	2200000	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	NLV	NLV	NLV	700000000	890000000	2800000	10000000	10000000	NA	NA
Butyl benzylphthalate (BBP)	µg/kg	NLV	NLV	NLV	47000000000	21000000000	310000	310000	310000	NA	NA
Caprolactam	µg/kg	NLV	NLV	NLV	670000000	290000000	5300000	310000000	NA	NA	NA
Carbazole	µg/kg	NLV	NLV	NLV	62000000	78000000	530000	2400000	NA	NA	NA
Chrysene	µg/kg	ID	ID	ID	ID	ID	2000000	8000000	NA	NA	NA
Dibenz(a,h)anthracene	µg/kg	NLV	NLV	NLV	ID	ID	2000	8000	NA	NA	NA
Dibenzofuran	µg/kg	160000	130000	160000	6700000	2900000	ID	ID	NA	NA	NA
Diethyl phthalate	µg/kg	NLV	NLV	NLV	3300000000	1500000000	740000	740000	740000	NA	NA
Dimethyl phthalate	µg/kg	NLV	NLV	NLV	3300000000	1500000000	790000	790000	790000	NA	NA
Di-n-butylphthalate (DBP)	µg/kg	NLV	NLV	NLV	3300000000	1500000000	760000	760000	760000	NA	NA
Di-n-octyl phthalate (DnOP)	µg/kg	NLV	NLV	NLV	31000000000	14000000000	6900000	20000000	140000000	NA	NA
Fluoranthene	µg/kg	880000000	740000000	880000000	9300000000	4100000000	46000000	130000000	NA	NA	NA
Fluorene	µg/kg	150000000	130000000	150000000	9300000000	4100000000	27000000	87000000	NA	NA	NA
Hexachlorobenzene	µg/kg	56000	17000	56000	6800000	8500000	8900	37000	NA	NA	NA
Hexachlorobutadiene	µg/kg	460000	130000	460000	140000000	180000000	100000	350000	350000	NA	NA
Hexachlorocyclopentadiene	µg/kg	60000	50000	60000	13000000	5900000	720000	720000	720000	NA	NA
Hexachloroethane	µg/kg	1400000	930000	1400000	230000000	100000000	230000	730000	NA	NA	NA
Indeno(1,2,3-cd)pyrene	µg/kg	NLV	NLV	NLV	ID	ID	20000	80000	NA	NA	NA
Isophorone	µg/kg	NLV	NLV	NLV	12000000000	8200000000	2400000	2400000	2400000	NA	NA
Naphthalene	µg/kg	350000	300000	350000	200000000	88000000	16000000	52000000	NA	NA	NA
Nitrobenzene	µg/kg	64000	54000	64000	47000000	21000000	100000	340000	490000	NA	NA
N-Nitrosodi-n-propylamine	µg/kg	NLV	NLV	NLV	1600000	2000000	1200	5400	1500000	NA	NA
N-Nitrosodiphenylamine	µg/kg	NLV	NLV	NLV	2200000000	2800000000	1700000	7800000	NA	NA	NA
Pentachlorophenol	µg/kg	NLV	NLV	NLV	100000000	130000000	90000	320000	NA	NA	NA
Phenanthrene	µg/kg	190000	160000	190000	67000000	29000000	1600000	5200000	NA	NA	NA
Phenol	µg/kg	NLV	NLV	NLV	40000000000	18000000000	12000000	12000000	12000000	NA	NA
Pyrene	µg/kg	780000000	650000000	780000000	6700000000	2900000000	29000000	84000000	NA	NA	NA
Volatile Organic Compounds (VOCs)											
1,1,1-Trichloroethane	µg/kg	15000000	28000000	31000000	67000000000	29000000000	460000	460000	460000	NA	NA
1,1,2,2-Tetrachloroethane	µg/kg	34000	14000	34000	54000000	68000000	53000	240000	870000	NA	NA
1,1,2-Trichloroethane	µg/kg	57000	44000	120000	190000000	250000000	180000	840000	920000	NA	NA
1,1-Dichloroethane	µg/kg	6000000	14000000	14000000	33000000000	15000000000	890000	890000	890000	NA	NA
1,1-Dichloroethene	µg/kg	15000	13000	37000	62000000	78000000	200000	570000	570000	NA	NA
1,2,4-Trichlorobenzene	µg/kg	34000000	28000000	34000000	25000000000	11000000000	990000	1100000	1100000	NA	NA
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	900	260	900	560000	700000	1200	1200	1200	NA	NA

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic Cleanup Criteria ⁽¹⁾

		Non-Residential Finite VSIC for 5 Meter Source Thickness k	Residential Finite VSIC for 2 Meter Source Thickness l	Non-Residential Finite VSIC for 2 Meter Source Thickness m	Residential Particulate Soil Inhalation n	Non-Residential Particulate Soil Inhalation o	Residential Direct Contact p	Non-Residential Direct Contact q	Soil Saturation Concentration Screening r	TSCA ⁽³⁾ s	TSCA ⁽⁴⁾ t
VOCs (cont'd)											
1,2-Dibromoethane ⁽⁶⁾	µg/kg	5800	3300	9800	14000000	18000000	92	430	890000	NA	NA
1,2-Dichlorobenzene	µg/kg	46000000	52000000	55000000	10000000000	44000000000	210000	210000	210000	NA	NA
1,2-Dichloroethane	µg/kg	33000	26000	74000	120000000	150000000	91000	420000	1200000	NA	NA
1,2-Dichloropropane	µg/kg	51000	110000	120000	270000000	120000000	140000	550000	550000	NA	NA
1,3-Dichlorobenzene	µg/kg	94000	110000	110000	200000000	88000000	170000	170000	170000	NA	NA
1,4-Dichlorobenzene	µg/kg	260000	110000	340000	450000000	570000000	400000	1900000	NA	NA	NA
2-Butanone ⁽⁷⁾	µg/kg	35000000	35000000	36000000	67000000000	29000000000	27000000	27000000	27000000	NA	NA
2-Hexanone	µg/kg	1300000	1400000	1500000	27000000000	1200000000	2500000	2500000	2500000	NA	NA
4-Methyl-2-pentanone ⁽⁸⁾	µg/kg	53000000	67000000	70000000	140000000000	60000000000	27000000	27000000	27000000	NA	NA
Acetone	µg/kg	160000000	190000000	200000000	390000000000	170000000000	23000000	73000000	110000000	NA	NA
Benzene	µg/kg	99000	79000	230000	380000000	470000000	180000	400000	400000	NA	NA
Bromodichloromethane	µg/kg	31000	19000	57000	84000000	110000000	110000	490000	1500000	NA	NA
Bromoform	µg/kg	3100000	900000	3100000	2800000000	3600000000	820000	870000	870000	NA	NA
Bromomethane (Methyl bromide)	µg/kg	57000	140000	140000	330000000	150000000	320000	1000000	2200000	NA	NA
Carbon disulfide	µg/kg	8000000	19000000	19000000	47000000000	21000000000	280000	280000	280000	NA	NA
Carbon tetrachloride	µg/kg	34000	28000	79000	130000000	170000000	96000	390000	390000	NA	NA
Chlorobenzene	µg/kg	1100000	2100000	2100000	4700000000	2100000000	260000	260000	260000	NA	NA
Chloroethane	µg/kg	120000000	280000000	280000000	670000000000	290000000000	950000	950000	950000	NA	NA
Chloroform (Trichloromethane)	µg/kg	340000	270000	790000	1300000000	1600000000	1200000	1500000	1500000	NA	NA
Chloromethane (Methyl chloride)	µg/kg	1000000	1000000	2500000	4900000000	2600000000	1100000	1100000	1100000	NA	NA
cis-1,2-Dichloroethene	µg/kg	430000	990000	1000000	2300000000	1000000000	640000	640000	640000	NA	NA
cis-1,3-Dichloropropene	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	µg/kg	80000	33000	98000	130000000	160000000	110000	500000	610000	NA	NA
Dichlorodifluoromethane (CFC-12)	µg/kg	550000000	1400000000	1400000000	3300000000000	1500000000000	1000000	1000000	1000000	NA	NA
Ethylbenzene	µg/kg	3100000	2200000	6500000	10000000000	13000000000	140000	140000	140000	NA	NA
Isopropyl benzene	µg/kg	2000000	2800000	3000000	5800000000	2600000000	390000	390000	390000	NA	NA
Methyl acetate	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert butyl ether (MTBE)	µg/kg	41000000	87000000	89000000	200000000000	88000000000	1500000	5900000	5900000	NA	NA
Methylene chloride	µg/kg	1700000	1400000	4000000	6600000000	8300000000	1300000	2300000	2300000	NA	NA
Styrene	µg/kg	3300000	1400000	4200000	5500000000	6900000000	400000	520000	520000	NA	NA
Tetrachloroethene	µg/kg	490000	1100000	1100000	2700000000	1200000000	88000	88000	88000	NA	NA
Toluene	µg/kg	36000000	12000000	36000000	27000000000	12000000000	250000	250000	250000	NA	NA
trans-1,2-Dichloroethene	µg/kg	840000	2000000	2000000	4700000000	2100000000	1400000	1400000	1400000	NA	NA
trans-1,3-Dichloropropene	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	µg/kg	25000	57000	58000	130000000	59000000	500000	500000	500000	NA	NA
Trichlorofluoromethane (CFC-11)	µg/kg	140000000000	1500000000	140000000000	3800000000000	1700000000000	560000	560000	560000	NA	NA
Trifluorotrichloroethane (Freon 113)	µg/kg	890000000	2100000000	2100000000	5100000000000	2300000000000	550000	550000	550000	NA	NA
Vinyl chloride	µg/kg	170000	73000	420000	350000000	890000000	3800	34000	490000	NA	NA
Xylenes (total)	µg/kg	65000000	130000000	130000000	290000000000	130000000000	150000	150000	150000	NA	NA

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

<i>Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic Cleanup Criteria</i> ⁽¹⁾									
Non-Residential Finite VSIC for	Residential Finite VSIC for	Non-Residential Finite VSIC for	Residential Particulate	Non-Residential Particulate	Residential Direct	Non-Residential Direct	Soil Saturation Concentration	TSCA ⁽³⁾	TSCA ⁽⁴⁾
5 Meter Source Thickness	2 Meter Source Thickness	2 Meter Source Thickness	Soil Inhalation	Soil Inhalation	Contact	Contact	Screening		
k	l	m	n	o	p	q	r	s	t

Notes:

⁽¹⁾ Cleanup criteria identified by MDEQ RRD
Op Memo No. 1, updated 9/28/2012,
pursuant to 1994 PA 451 as amended.

⁽²⁾ Carbonate Hardness of 344 mg/L was
used to calculate Groundwater-Surface

Water Interface Protection Criteria.

⁽³⁾ Toxic Substances Control Act (TSCA) Criterion for
bulk PCB remediation waste in High Occupancy Areas
without further conditions (40 CFR 761.61(a)(4)(i)).

⁽⁴⁾ Toxic Substances Control Act (TSCA) Criterion for
bulk PCB remediation waste in High Occupancy Areas
with restrictions (40 CFR 761.61(a)(4)(i)).

⁽⁵⁾ 2,2'-Oxybis(1-chloropropane) also known as
(bis(2-Chloroisopropyl) ether).

⁽⁶⁾ 1,2-Dibromoethane also known as Ethylene dibromide.

⁽⁷⁾ 2-Butanone also known as Methyl ethyl ketone (MEK).

⁽⁸⁾ 4-Methyl-2-pentanone also known as
Methyl isobutyl ketone (MIBK).

J - Estimated concentration.

UJ - Estimated reporting limit.

ID - Insufficient data to develop criterion.

NA - A criterion or value is not available or,
in the case of background numbers, not applicable.

NLL - Hazardous substance is not likely to leach
under most soil conditions.

NLV - Hazardous substance is not likely to
volatilize under most conditions.

-- Parameter was not analyzed.

Exceeds Generic Cleanup Criteria.

Superscript letter notes the criterion exceeded.

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location	SB246-13		SB246-13		SB246-13		SB246-13		SB246-13		SB247-13				
Sample Identification	SO-17360-082013-MR-089 (246-13)		SO-17360-082013-MR-090		SO-17360-082013-MR-091		SO-17360-082013-MR-092		SO-17360-082013-MR-093		SO-17360-082013-MR-094		SO-17360-082013-MR-085		
Sample Date	8/20/2013		8/20/2013		8/20/2013		8/20/2013		8/20/2013		8/20/2013		8/20/2013		
Sample Depth	(0-2) ft BGS		(2-4) ft BGS		(2-4) ft BGS		(4-6) ft BGS		(6-8) ft BGS		(8-10) ft BGS		(0-2) ft BGS		
Sample Type					Duplicate										
Metals		Units													
Antimony	µg/kg	370 J	67 J	67 J	48 J	62 J	82 J	260 J							
Arsenic	µg/kg	1800	1200	1200	1100	1000	1200	1500							
Barium	µg/kg	30000 J	15000 J	15000	13000 J	22000 J	32000 J	25000 J							
Beryllium	µg/kg	100 J	75 J	81 J	84 J	110 J	130 J	71 J							
Cadmium	µg/kg	84 J	28 J	32 J	32 J	39 J	100 J	76 J							
Chromium	µg/kg	5800	3700	4400	4000	5000	5500	5800							
Cobalt	µg/kg	1800	1300	1300	1300	1800	1700	2000							
Copper	µg/kg	7000	2600	2600	2400	2100	3800	6900							
Iron	µg/kg	4700000	3700000	4000000	3700000	4500000	4600000	4700000							
Lead	µg/kg	21000	2300	2400	2400	3600	5200	51000							
Manganese	µg/kg	120000	81000	81000	72000	78000	120000	150000							
Mercury	µg/kg	10 J	6.4 J	6.2 J	6.2 J	12 J	25 J	17 J							
Molybdenum	µg/kg	740	220 J	390	240 J	180 J	230 J	320 J							
Nickel	µg/kg	5200	3200	3200	3300	4100	4100	4800							
Selenium	µg/kg	250 J	210 J	240 J	240 J	350 J	530 ^d	320 J							
Silver	µg/kg	27 J	2.3 J	2.8 J	2 J	7.7 J	11 J	380 U							
Thallium	µg/kg	42 J	22 J	25 J	21 J	76 J	56 J	380 U							
Vanadium	µg/kg	8000 J	7400	7300	7100 J	8900 J	9000 J	8300							
Zinc	µg/kg	17000	7900	8200	7600	9500	14000	15000							
Polychlorinated Biphenyls (PCBs)															
Aroclor-1016 (PCB-1016)	µg/kg	-	-	-	-	-	-	-							
Aroclor-1221 (PCB-1221)	µg/kg	-	-	-	-	-	-	-							
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	-	-	-	-							
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	-	-	-	-							
Aroclor-1248 (PCB-1248)	µg/kg	-	-	-	-	-	-	-							
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	-	-	-	-							
Aroclor-1260 (PCB-1260)	µg/kg	-	-	-	-	-	-	-							
Total PCBs	µg/kg	-	-	-	-	-	-	-							

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB246-13	SB246-13	SB246-13	SB246-13	SB246-13	SB246-13	SB247-13
Sample Identification	SO-17360-082013-MR-089 (246-13)	SO-17360-082013-MR-090	SO-17360-082013-MR-091	SO-17360-082013-MR-092	SO-17360-082013-MR-093	SO-17360-082013-MR-094	SO-17360-082013-MR-085
Sample Date	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013
Sample Depth	(0-2) ft BGS	(2-4) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(0-2) ft BGS
Sample Type			Duplicate				
Semi-Volatile Organic Compounds (SVOCs)							
2,2'-Oxybis(1-chloropropane) ⁽⁵⁾	µg/kg	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrophenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2-Chloronaphthalene	µg/kg	-	-	-	-	-	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	290 J	82 U	91	82 U	84 U	96 U
2-Methylphenol	µg/kg	-	-	-	-	-	-
2-Nitroaniline	µg/kg	-	-	-	-	-	-
2-Nitrophenol	µg/kg	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-
3-Nitroaniline	µg/kg	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/kg	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/kg	-	-	-	-	-	-
4-Chloroaniline	µg/kg	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Methylphenol	µg/kg	-	-	-	-	-	-
4-Nitroaniline	µg/kg	-	-	-	-	-	-
4-Nitrophenol	µg/kg	-	-	-	-	-	-
Acenaphthene	µg/kg	770	31 U	31 U	31 U	32 U	36 U
Acenaphthylene	µg/kg	310 U	31 U	31 U	31 U	32 U	36 U
Acetophenone	µg/kg	-	-	-	-	-	-
Anthracene	µg/kg	620	30 J	31	30 J	32 U	36 U
Atrazine	µg/kg	-	-	-	-	-	-
Benzaldehyde	µg/kg	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	980	21 J	23 J	120	37	36 U
Benzo(a)pyrene	µg/kg	780	72	72	93	24 J	36 U
Benzo(b)fluoranthene	µg/kg	1200	62	61	170	41	36 U
Benzo(g,h,i)perylene	µg/kg	390	62	60	69	32 U	36 U
Benzo(k)fluoranthene	µg/kg	430	38	36	55	32 U	36 U
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/kg	-	-	-	-	-	-

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location	SB246-13	SB246-13	SB246-13	SB246-13	SB246-13	SB246-13	SB247-13
Sample Identification	SO-17360-082013-MR-089 (246-13)	SO-17360-082013-MR-090	SO-17360-082013-MR-091	SO-17360-082013-MR-092	SO-17360-082013-MR-093	SO-17360-082013-MR-094	SO-17360-082013-MR-085
Sample Date	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013
Sample Depth	(0-2) ft BGS	(2-4) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(0-2) ft BGS
Sample Type			Duplicate				
SVOCs (continued)							
bis(2-Chloroethyl)ether	µg/kg	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-
Caprolactam	µg/kg	-	-	-	-	-	-
Carbazole	µg/kg	-	-	-	-	-	-
Chrysene	µg/kg	960	18 J	18 J	130	34	640
Dibenz(a,h)anthracene	µg/kg	310 U	31 U	31 U	19 J	32 U	310 U
Dibenzofuran	µg/kg	-	-	-	-	-	-
Diethyl phthalate	µg/kg	-	-	-	-	-	-
Dimethyl phthalate	µg/kg	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-
Fluoranthene	µg/kg	2300	65	65	210	55	1600
Fluorene	µg/kg	460	31 U	31 U	31 U	36 U	310 U
Hexachlorobenzene	µg/kg	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/kg	-	-	-	-	-	-
Hexachloroethane	µg/kg	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	390	36	35	67	32 U	250 J
Isophorone	µg/kg	-	-	-	-	-	-
Naphthalene	µg/kg	310 U	31 U	71	31 U	32 U	310 U
Nitrobenzene	µg/kg	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/kg	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-
Pentachlorophenol	µg/kg	-	-	-	-	-	-
Phenanthrene	µg/kg	3600 ^d	31 U	48	140	39	1500
Phenol	µg/kg	-	-	-	-	-	-
Pyrene	µg/kg	1800	40	42	170	51	1500
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	µg/kg	34 U	36 U	35 U	37 U	40 U	35 U
1,1,2,2-Tetrachloroethane	µg/kg	34 U	36 U	35 U	37 U	40 U	35 U
1,1,2-Trichloroethane	µg/kg	34 U	36 U	35 U	37 U	37 U	35 U
1,1-Dichloroethane	µg/kg	34 U	36 U	35 U	37 U	40 U	35 U
1,1-Dichloroethene	µg/kg	34 U	36 U	35 U	37 U	40 U	35 U
1,2,4-Trichlorobenzene	µg/kg	34 U	36 U	35 U	37 U	40 U	35 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	34 U	36 U	35 U	37 U	40 U	35 U

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location		SB246-13	SB246-13	SB246-13	SB246-13	SB246-13	SB246-13	SB247-13
Sample Identification		SO-17360-082013-MR-089 (246-13)	SO-17360-082013-MR-090	SO-17360-082013-MR-091	SO-17360-082013-MR-092	SO-17360-082013-MR-093	SO-17360-082013-MR-094	SO-17360-082013-MR-085
Sample Date		8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013
Sample Depth		(0-2) ft BGS	(2-4) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(0-2) ft BGS
Sample Type				Duplicate				
VOCs (continued)								
1,2-Dibromoethane ⁽⁶⁾	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
1,2-Dichlorobenzene	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
1,2-Dichloroethane	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
1,2-Dichloropropane	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
1,3-Dichlorobenzene	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
1,4-Dichlorobenzene	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
2-Butanone ⁽⁷⁾	µg/kg	230 U	240 U	230 U	250 U	270 U	250 U	230 U
2-Hexanone	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
4-Methyl-2-pentanone ⁽⁸⁾	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
Acetone	µg/kg	110 U	120 U	120 U	120 U	130 U	120 U	120 U
Benzene	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
Bromodichloromethane	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
Bromoform	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
Bromomethane (Methyl bromide)	µg/kg	86 U	89 U	86 U	94 U	100 U	93 U	86 U
Carbon disulfide	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
Carbon tetrachloride	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
Chlorobenzene	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
Chloroethane	µg/kg	110 U	120 U	120 U	120 U	130 U	120 U	120 U
Chloroform (Trichloromethane)	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
Chloromethane (Methyl chloride)	µg/kg	110 U	120 U	120 U	120 U	130 U	120 U	120 U
cis-1,2-Dichloroethene	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
cis-1,3-Dichloropropene	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
Cyclohexane	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
Dibromochloromethane	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
Dichlorodifluoromethane (CFC-12)	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
Ethylbenzene	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
Isopropyl benzene	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
Methyl acetate	µg/kg	570	240 U	230 U	250 U	270 U	250 U	110 J
Methyl cyclohexane	µg/kg	26 J	36 U	35 U	37 U	40 U	37 U	35 U
Methyl tert butyl ether (MTBE)	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
Methylene chloride	µg/kg	110 U	140 U	120 U	120 U	120 U	93 U	35 U
Styrene	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
Tetrachloroethene	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
Toluene	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35
trans-1,2-Dichloroethene	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
trans-1,3-Dichloropropene	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
Trichloroethene	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
Trichlorofluoromethane (CFC-11)	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
Trifluorotrichloroethane (Freon 113)	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
Vinyl chloride	µg/kg	34 U	36 U	35 U	37 U	40 U	37 U	35 U
Xylenes (total)	µg/kg	57 J	110 U	100 U	110 U	120 U	110 U	120

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location	<i>SB247-13</i>		<i>SB247-13</i>		<i>SB247-13</i>		<i>SB247-13</i>		<i>SB248-13</i>		<i>SB248-13</i>		<i>SB248-13</i>	
Sample Identification	S	<i>SO-17360-082013-MR-086</i>	<i>SO-17360-082013-MR-087</i>	<i>SO-17360-082013-MR-088</i>	<i>SO-17360-082013-MR-089</i>	<i>SO-17360-082013-MR-078</i>	<i>SO-17360-082013-MR-079</i>	<i>SO-17360-082013-MR-080</i>						
Sample Date		<i>8/20/2013</i>	<i>8/20/2013</i>	<i>8/20/2013</i>	<i>8/20/2013</i>	<i>8/20/2013</i>	<i>8/20/2013</i>	<i>8/20/2013</i>						
Sample Depth		<i>(2-4) ft BGS</i>	<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(0-2) ft BGS</i>	<i>(2-4) ft BGS</i>	<i>(4-6) ft BGS</i>						
Sample Type														
Metals														
Antimony	µg/kg	46 J	160 J	110 J	62 J	260 J	100 J	87 J						
Arsenic	µg/kg	1200	2200	1400	1200	1700	1400	1100						
Barium	µg/kg	36000 J	29000 J	37000 J	19000 J	34000 J	21000 J	21000 J						
Beryllium	µg/kg	110 J	210	150 J	110 J	100 J	96 J	110 J						
Cadmium	µg/kg	57 J	140 J	73 J	43 J	80 J	77 J	87 J						
Chromium	µg/kg	6600	5400	5700	5600	5600	4300	6200						
Cobalt	µg/kg	3000	3400	2100	2300	1900	1700	2000						
Copper	µg/kg	5500	8800	4200	2500	5900	5200	5600						
Iron	µg/kg	8500000	7800000	6500000	5000000	5000000	4400000	5400000						
Lead	µg/kg	4600	6200	4600	3800	32000	6000	11000						
Manganese	µg/kg	300000	190000	200000	89000	160000	170000	170000						
Mercury	µg/kg	8.7 J	210 ^d	12 J	17 J	22 J	37 U	16 J						
Molybdenum	µg/kg	230 J	680	350 J	220 J	370 J	270 J	250 J						
Nickel	µg/kg	5600	12000	5300	4900	4800	3900	4800						
Selenium	µg/kg	410	520 ^d	370 J	390	350 J	390 J	370 J						
Silver	µg/kg	380 U	400 U	6 J	6.8 J	380 U	400 U	380 U						
Thallium	µg/kg	380 U	400 U	57 J	44 J	380 U	400 U	380 U						
Vanadium	µg/kg	23000	11000	11000 J	9500 J	8500	8300	11000						
Zinc	µg/kg	15000	14000	17000	10000	20000	15000	14000						
Polychlorinated Biphenyls (PCBs)														
Aroclor-1016 (PCB-1016)	µg/kg	-	-	-	-	-	-	-						
Aroclor-1221 (PCB-1221)	µg/kg	-	-	-	-	-	-	-						
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	-	-	-	-						
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	-	-	-	-						
Aroclor-1248 (PCB-1248)	µg/kg	-	-	-	-	-	-	-						
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	-	-	-	-						
Aroclor-1260 (PCB-1260)	µg/kg	-	-	-	-	-	-	-						
Total PCBs	µg/kg	-	-	-	-	-	-	-						

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location		SB247-13	SB247-13	SB247-13	SB247-13	SB248-13	SB248-13	SB248-13
Sample Identification	S	SO-17360-082013-MR-086	SO-17360-082013-MR-087	SO-17360-082013-MR-088	SO-17360-082013-MR-089	SO-17360-082013-MR-078	SO-17360-082013-MR-079	SO-17360-082013-MR-080
Sample Date		8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013
Sample Depth		(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS
Sample Type								
Semi-Volatile Organic Compounds (SVOCs)								
2,2'-Oxybis(1-chloropropane) ⁽⁵⁾	µg/kg	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/kg	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/kg	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/kg	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/kg	-	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/kg	-	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/kg	-	-	-	-	-	-	-
2-Chloronaphthalene	µg/kg	-	-	-	-	-	-	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	83 U	190	91	88 U	830 U	26 J	85 U
2-Methylphenol	µg/kg	-	-	-	-	-	-	-
2-Nitroaniline	µg/kg	-	-	-	-	-	-	-
2-Nitrophenol	µg/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-	-
3-Nitroaniline	µg/kg	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/kg	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/kg	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/kg	-	-	-	-	-	-	-
4-Chloroaniline	µg/kg	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/kg	-	-	-	-	-	-	-
4-Methylphenol	µg/kg	-	-	-	-	-	-	-
4-Nitroaniline	µg/kg	-	-	-	-	-	-	-
4-Nitrophenol	µg/kg	-	-	-	-	-	-	-
Acenaphthene	µg/kg	31 U	32 U	32 U	33 U	310 U	31 U	32 U
Acenaphthylene	µg/kg	31 U	27 J	32 U	33 U	310 U	28 J	31 J
Acetophenone	µg/kg	-	-	-	-	-	-	-
Anthracene	µg/kg	31 U	42	34	33 U	700	39	41
Atrazine	µg/kg	-	-	-	-	-	-	-
Benzaldehyde	µg/kg	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	31 U	47	27 J	33 U	1000	60	72
Benzo(a)pyrene	µg/kg	31 U	92	79	33 U	1300	110	120
Benzo(b)fluoranthene	µg/kg	31 U	98	77	33 U	1400	110	140
Benzo(g,h,i)perylene	µg/kg	31 U	83	72	33 U	960	90	120
Benzo(k)fluoranthene	µg/kg	31 U	49	41	33 U	700	59	68
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/kg	-	-	-	-	-	-	-

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location	<i>SB247-13</i>		<i>SB247-13</i>		<i>SB247-13</i>		<i>SB247-13</i>		<i>SB248-13</i>		<i>SB248-13</i>		<i>SB248-13</i>	
Sample Identification	S	<i>SO-17360-082013-MR-086</i>	<i>SO-17360-082013-MR-087</i>	<i>SO-17360-082013-MR-088</i>	<i>SO-17360-082013-MR-089</i>	<i>SO-17360-082013-MR-078</i>	<i>SO-17360-082013-MR-079</i>	<i>SO-17360-082013-MR-080</i>						
Sample Date		<i>8/20/2013</i>	<i>8/20/2013</i>	<i>8/20/2013</i>	<i>8/20/2013</i>	<i>8/20/2013</i>	<i>8/20/2013</i>	<i>8/20/2013</i>						
Sample Depth		<i>(2-4) ft BGS</i>	<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(0-2) ft BGS</i>	<i>(2-4) ft BGS</i>	<i>(4-6) ft BGS</i>						
Sample Type														
<i>SVOCs (continued)</i>														
bis(2-Chloroethyl)ether	µg/kg	-	-	-	-	-	-	-						
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-	-						
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-	-						
Caprolactam	µg/kg	-	-	-	-	-	-	-						
Carbazole	µg/kg	-	-	-	-	-	-	-						
Chrysene	µg/kg	31 U	63	37	33 U	920	59	100						
Dibenz(a,h)anthracene	µg/kg	31 U	32 U	32 U	33 U	730	73	77						
Dibenzofuran	µg/kg	-	-	-	-	-	-	-						
Diethyl phthalate	µg/kg	-	-	-	-	-	-	-						
Dimethyl phthalate	µg/kg	-	-	-	-	-	-	-						
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-	-						
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-	-						
Fluoranthene	µg/kg	31 U	92	66	33 U	2700	110	140						
Fluorene	µg/kg	31 U	32 U	32 U	33 U	310 U	31 U	32 U						
Hexachlorobenzene	µg/kg	-	-	-	-	-	-	-						
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-	-						
Hexachlorocyclopentadiene	µg/kg	-	-	-	-	-	-	-						
Hexachloroethane	µg/kg	-	-	-	-	-	-	-						
Indeno(1,2,3-cd)pyrene	µg/kg	31 U	63	49	33 U	950	80	100						
Isophorone	µg/kg	-	-	-	-	-	-	-						
Naphthalene	µg/kg	31 U	130	58	33 U	310 U	31 U	32 U						
Nitrobenzene	µg/kg	-	-	-	-	-	-	-						
N-Nitrosodi-n-propylamine	µg/kg	-	-	-	-	-	-	-						
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-	-						
Pentachlorophenol	µg/kg	-	-	-	-	-	-	-						
Phenanthrene	µg/kg	31 U	120	57	33 U	2100	55	56						
Phenol	µg/kg	-	-	-	-	-	-	-						
Pyrene	µg/kg	31 U	70	41	33 U	2300	99	110						
<i>Volatile Organic Compounds (VOCs)</i>														
1,1,1-Trichloroethane	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
1,1,2,2-Tetrachloroethane	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
1,1,2-Trichloroethane	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
1,1-Dichloroethane	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
1,1-Dichloroethene	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
1,2,4-Trichlorobenzene	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB247-13		SB247-13		SB247-13		SB247-13		SB248-13		SB248-13		SB248-13	
Sample Identification	S	SO-17360-082013-MR-086	SO-17360-082013-MR-087	SO-17360-082013-MR-088	SO-17360-082013-MR-089	SO-17360-082013-MR-078	SO-17360-082013-MR-079	SO-17360-082013-MR-080						
Sample Date		8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013						
Sample Depth		(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS						
Sample Type														
VOCs (continued)														
1,2-Dibromoethane ⁽⁶⁾	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
1,2-Dichlorobenzene	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
1,2-Dichloroethane	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
1,2-Dichloropropane	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
1,3-Dichlorobenzene	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
1,4-Dichlorobenzene	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
2-Butanone ⁽⁷⁾	µg/kg	210 U	390 U	230 U	260 U	220 U	210 U	220 U						
2-Hexanone	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
4-Methyl-2-pentanone ⁽⁸⁾	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
Acetone	µg/kg	110 U	200 U	110 U	130 U	110 U	110 U	110 U						
Benzene	µg/kg	32 U	59 U	15 J	39 U	33 U	39	33 U						
Bromodichloromethane	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
Bromoform	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
Bromomethane (Methyl bromide)	µg/kg	80 U	150 U	84 U	98 U	84 U	79 U	83 U						
Carbon disulfide	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
Carbon tetrachloride	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
Chlorobenzene	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
Chloroethane	µg/kg	110 U	200 U	110 U	130 U	110 U	110 U	110 U						
Chloroform (Trichloromethane)	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
Chloromethane (Methyl chloride)	µg/kg	110 U	200 U	110 U	130 U	110 U	110 U	110 U						
cis-1,2-Dichloroethene	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
cis-1,3-Dichloropropene	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
Cyclohexane	µg/kg	32 U	59 U	38	39 U	33 U	32 U	33 U						
Dibromochloromethane	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
Dichlorodifluoromethane (CFC-12)	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
Ethylbenzene	µg/kg	32 U	59 U	20 J	39 U	33 U	21 J	33 U						
Isopropyl benzene	µg/kg	32 U	59 U	31 J	39 U	33 U	32 U	33 U						
Methyl acetate	µg/kg	210 U	390 U	230 U	260 U	100 J	210 U	220 U						
Methyl cyclohexane	µg/kg	32 U	120	140	39 U	33 U	32 U	33 U						
Methyl tert butyl ether (MTBE)	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
Methylene chloride	µg/kg	58 U	98 U	73 U	110 U	33 U	32 U	33 U						
Styrene	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
Tetrachloroethene	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
Toluene	µg/kg	32 U	71	52	39 U	32 J	150	33 U						
trans-1,2-Dichloroethene	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
trans-1,3-Dichloropropene	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
Trichloroethene	µg/kg	32 U	59 U	100	39 U	33 U	32 U	33 U						
Trichlorofluoromethane (CFC-11)	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
Trifluorotrichloroethane (Freon 113)	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
Vinyl chloride	µg/kg	32 U	59 U	34 U	39 U	33 U	32 U	33 U						
Xylenes (total)	µg/kg	96 U	130 J	160	120 U	56 J	79 J	99 U						

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location	SB248-13		SB248-13		SB248-13		SB249-13		SB249-13		SB249-13		SB249-13	
Sample Identification	S SO-17360-082013-MR-081		SO-17360-082013-MR-082		SO-17360-082013-MR-084		SO-17360-082013-MR-073		SO-17360-082013-MR-074		SO-17360-082013-MR-075		SO-17360-082013-MR-076	
Sample Date	8/20/2013		8/20/2013		8/20/2013		8/20/2013		8/20/2013		8/20/2013		8/20/2013	
Sample Depth	(4-6) ft BGS		(6-8) ft BGS		(8-10) ft BGS		(0-2) ft BGS		(2-4) ft BGS		(4-6) ft BGS		(6-8) ft BGS	
Sample Type	Duplicate													
Metals														
Units														
Antimony	µg/kg	87 J	43 J	73 J	530	380 J	800	270 J						
Arsenic	µg/kg	1100	950	1000	2300	8100 ^{bcdp}	9500 ^{bcdp}	9200 ^{bcdp}						
Barium	µg/kg	21000	12000 J	11000 J	44000 J	83000 J	120000 J	53000 J						
Beryllium	µg/kg	83 J	63 J	62 J	110 J	400	680	200						
Cadmium	µg/kg	61 J	45 J	38 J	220	130 J	100 J	62 J						
Chromium	µg/kg	4600	3600	8400	48000 ^{bcd}	5400	7300	5700						
Cobalt	µg/kg	1600	1300	1500	3100	3500	5500	1900						
Copper	µg/kg	3800	2400	2900	16000	14000	21000	4200						
Iron	µg/kg	4400000	3900000	3900000	9700000	4200000	5300000	4900000						
Lead	µg/kg	5900	2500	3600	44000	12000	24000	5500						
Manganese	µg/kg	170000	93000	98000	220000	56000	76000	220000						
Mercury	µg/kg	37 U	38 U	7.1 J	27 J	22 J	43 U	39 U						
Molybdenum	µg/kg	310 J	140 J	1600 ^b	6200 ^{bc}	1000	2300 ^b	580						
Nickel	µg/kg	3700	3200	3900	42000	10000	12000	4700						
Selenium	µg/kg	330 J	240 J	330 J	420 ^d	550 ^d	1100 ^d	490 ^d						
Silver	µg/kg	400 U	370 U	380 U	130 J	36 J	36 J	380 U						
Thallium	µg/kg	400 U	370 U	380 U	390 U	400 U	360 J	380 U						
Vanadium	µg/kg	7400	6100	6700	10000	7400	13000	8900						
Zinc	µg/kg	11000	14000	8200	30000	13000	14000	13000						
Polychlorinated Biphenyls (PCBs)														
Aroclor-1016 (PCB-1016)	µg/kg	-	-	-	-	-	-	-						
Aroclor-1221 (PCB-1221)	µg/kg	-	-	-	-	-	-	-						
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	-	-	-	-						
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	-	-	-	-						
Aroclor-1248 (PCB-1248)	µg/kg	-	-	-	-	-	-	-						
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	-	-	-	-						
Aroclor-1260 (PCB-1260)	µg/kg	-	-	-	-	-	-	-						
Total PCBs	µg/kg	-	-	-	-	-	-	-						

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location	SB248-13	SB248-13	SB248-13	SB249-13	SB249-13	SB249-13	SB249-13
Sample Identification	S SO-17360-082013-MR-081	SO-17360-082013-MR-082	SO-17360-082013-MR-084	SO-17360-082013-MR-073	SO-17360-082013-MR-074	SO-17360-082013-MR-075	SO-17360-082013-MR-076
Sample Date	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013
Sample Depth	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS
Sample Type	Duplicate						
Semi-Volatile Organic Compounds (SVOCs)							
2,2'-Oxybis(1-chloropropane) ⁽⁵⁾	µg/kg	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrophenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2-Chloronaphthalene	µg/kg	-	-	-	-	-	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	82 U	83 U	83 U	860 U	82 J	35 J
2-Methylphenol	µg/kg	-	-	-	-	-	-
2-Nitroaniline	µg/kg	-	-	-	-	-	-
2-Nitrophenol	µg/kg	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-
3-Nitroaniline	µg/kg	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/kg	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/kg	-	-	-	-	-	-
4-Chloroaniline	µg/kg	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Methylphenol	µg/kg	-	-	-	-	-	-
4-Nitroaniline	µg/kg	-	-	-	-	-	-
4-Nitrophenol	µg/kg	-	-	-	-	-	-
Acenaphthene	µg/kg	31 U	31 U	31 U	320 U	19 J	49 U
Acenaphthylene	µg/kg	31	31 U	31 U	320 U	26 J	49 U
Acetophenone	µg/kg	-	-	-	-	-	-
Anthracene	µg/kg	41	47	31 J	540	70	56
Atrazine	µg/kg	-	-	-	-	-	-
Benzaldehyde	µg/kg	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	98	89	28 J	870	280	56
Benzo(a)pyrene	µg/kg	140	120	78	1200	260	130
Benzo(b)fluoranthene	µg/kg	160	130	68	1300	380	130
Benzo(g,h,i)perylene	µg/kg	120	80	67	980	190	120
Benzo(k)fluoranthene	µg/kg	68	60	42	640	150	67
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location		<i>SB248-13</i>	<i>SB248-13</i>	<i>SB248-13</i>	<i>SB249-13</i>	<i>SB249-13</i>	<i>SB249-13</i>	<i>SB249-13</i>
Sample Identification	S	<i>SO-17360-082013-MR-081</i>	<i>SO-17360-082013-MR-082</i>	<i>SO-17360-082013-MR-084</i>	<i>SO-17360-082013-MR-073</i>	<i>SO-17360-082013-MR-074</i>	<i>SO-17360-082013-MR-075</i>	<i>SO-17360-082013-MR-076</i>
Sample Date		8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013
Sample Depth		(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS
Sample Type		Duplicate						
SVOCs (continued)								
bis(2-Chloroethyl)ether	µg/kg	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-	-
Caprolactam	µg/kg	-	-	-	-	-	-	-
Carbazole	µg/kg	-	-	-	-	-	-	-
Chrysene	µg/kg	100	84	25 J	780	320	67	24 J
Dibenz(a,h)anthracene	µg/kg	80	67	31 U	740	110	49 U	32 U
Dibenzofuran	µg/kg	-	-	-	-	-	-	-
Diethyl phthalate	µg/kg	-	-	-	-	-	-	-
Dimethyl phthalate	µg/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-	-
Fluoranthene	µg/kg	140	170	70	2100	450	140	65
Fluorene	µg/kg	31 U	31 U	31 U	320 U	32 U	49 U	32 U
Hexachlorobenzene	µg/kg	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/kg	-	-	-	-	-	-	-
Hexachloroethane	µg/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	120	65	45	930	230	75	48
Isophorone	µg/kg	-	-	-	-	-	-	-
Naphthalene	µg/kg	31 U	31 U	31 U	320 U	47	49 U	32 U
Nitrobenzene	µg/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	-	-	-	-	-	-	-
Phenanthrene	µg/kg	54	110	31 U	1500	330	96	38
Phenol	µg/kg	-	-	-	-	-	-	-
Pyrene	µg/kg	140	140	49	1700	510	87	38
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	µg/kg	33 U	32 U	34 U	32 U	45 U	74 U	42 U
1,1,2,2-Tetrachloroethane	µg/kg	33 U	32 U	34 U	32 U	45 U	74 U	42 U
1,1,2-Trichloroethane	µg/kg	33 U	32 U	34 U	32 U	45 U	74 U	42 U
1,1-Dichloroethane	µg/kg	33 U	32 U	34 U	32 U	45 U	74 U	42 U
1,1-Dichloroethene	µg/kg	33 U	32 U	34 U	32 U	45 U	74 U	42 U
1,2,4-Trichlorobenzene	µg/kg	33 U	32 U	34 U	32 U	45 U	74 U	42 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	33 U	32 U	34 U	32 U	45 U	74 U	42 U

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB248-13		SB248-13		SB248-13		SB249-13		SB249-13		SB249-13			
Sample Identification	S SO-17360-082013-MR-081		SO-17360-082013-MR-082		SO-17360-082013-MR-084		SO-17360-082013-MR-073		SO-17360-082013-MR-074		SO-17360-082013-MR-075		SO-17360-082013-MR-076	
Sample Date	8/20/2013		8/20/2013		8/20/2013		8/20/2013		8/20/2013		8/20/2013		8/20/2013	
Sample Depth	(4-6) ft BGS		(6-8) ft BGS		(8-10) ft BGS		(0-2) ft BGS		(2-4) ft BGS		(4-6) ft BGS		(6-8) ft BGS	
Sample Type	Duplicate													
VOCs (continued)														
1,2-Dibromoethane ⁽⁶⁾	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
1,2-Dichlorobenzene	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
1,2-Dichloroethane	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
1,2-Dichloropropane	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
1,3-Dichlorobenzene	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
1,4-Dichlorobenzene	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
2-Butanone ⁽⁷⁾	µg/kg	220 U	210 U		230 U		210 U		300 U		490 U		280 U	
2-Hexanone	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
4-Methyl-2-pentanone ⁽⁸⁾	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
Acetone	µg/kg	110 U	110 U		110 U		110 U		150 U		250 U		140 U	
Benzene	µg/kg	110 ^{bc}	32 U		34 U		32 U		45 U		74 U		42 U	
Bromodichloromethane	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
Bromoform	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
Bromomethane (Methyl bromide)	µg/kg	84 U	80 U		86 U		81 U		110 U		180 U		100 U	
Carbon disulfide	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
Carbon tetrachloride	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
Chlorobenzene	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
Chloroethane	µg/kg	110 U	110 U		110 U		110 U		150 U		250 U		140 U	
Chloroform (Trichloromethane)	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
Chloromethane (Methyl chloride)	µg/kg	110 U	110 U		110 U		110 U		150 U		250 U		140 U	
cis-1,2-Dichloroethene	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
cis-1,3-Dichloropropene	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
Cyclohexane	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
Dibromochloromethane	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
Dichlorodifluoromethane (CFC-12)	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
Ethylbenzene	µg/kg	84	32 U		38		32 U		45 U		74 U		42 U	
Isopropyl benzene	µg/kg	42	32 U		34 U		32 U		45 U		74 U		42 U	
Methyl acetate	µg/kg	220 U	210 U		590		100 J		300 U		490 U		280 U	
Methyl cyclohexane	µg/kg	140 J	32 U		34 U		32 U		360		74 U		42 U	
Methyl tert butyl ether (MTBE)	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
Methylene chloride	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
Styrene	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
Tetrachloroethene	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
Toluene	µg/kg	400	32 U		34 U		32 U		43 J		74 U		42 U	
trans-1,2-Dichloroethene	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
trans-1,3-Dichloropropene	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
Trichloroethene	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
Trichlorofluoromethane (CFC-11)	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
Trifluorotrichloroethane (Freon 113)	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
Vinyl chloride	µg/kg	33 U	32 U		34 U		32 U		45 U		74 U		42 U	
Xylenes (total)	µg/kg	340	97 U		230		97 U		150		220 U		120 U	

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location		SB249-13	SB250-13	SB250-13	SB250-13	SB250-13	SB250-13	SB250-13
Sample Identification	S	SO-17360-082013-MR-077	SO-17360-082013-MR-067	SO-17360-082013-MR-068	SO-17360-082013-MR-069	SO-17360-082013-MR-070	SO-17360-082013-MR-071	SO-17360-082013-MR-072
Sample Date		8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013
Sample Depth		(8-10) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Sample Type						Duplicate		
Metals		Units						
Antimony	µg/kg	110 J	940	420	150 J	190 J	350 J	380 J
Arsenic	µg/kg	1400	2000	2300	1400	1700	1500	4400
Barium	µg/kg	41000 J	56000 J	31000 J	23000 J	21000 J	35000 J	37000 J
Beryllium	µg/kg	130 J	110 J	100 J	76 J	86 J	130 J	190
Cadmium	µg/kg	120 J	260	240	110 J	110 J	140 J	270
Chromium	µg/kg	5400	11000	8300	7900	7300	5800	7600
Cobalt	µg/kg	1800	2500	2200	2100	2200	1800	3000
Copper	µg/kg	4200	12000	15000	10000	14000	8700	17000
Iron	µg/kg	4900000	7400000	5700000	5900000	6200000	4800000	9200000
Lead	µg/kg	6600	110000	18000	9200	12000	17000	24000
Manganese	µg/kg	270000	170000	150000	160000	160000	250000	140000
Mercury	µg/kg	20 J	30 J	40 U	38 U	36 U	28 J	47
Molybdenum	µg/kg	360 J	2300 ^b	770	730	920	410	1400
Nickel	µg/kg	4000	9500	6800	6800	6700	5000	9100
Selenium	µg/kg	370 J	500 ^d	380 J	280 J	300 J	310 J	610 ^d
Silver	µg/kg	380 U	340 J	46 J	19 J	69 J	21 J	42 J
Thallium	µg/kg	380 U	400 U	390 U	390 U	390 U	390 U	400 U
Vanadium	µg/kg	7900	14000	10000	8000	11000	7500	8700
Zinc	µg/kg	18000	26000	31000	15000	18000	17000	18000
Polychlorinated Biphenyls (PCBs)								
Aroclor-1016 (PCB-1016)	µg/kg	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/kg	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/kg	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/kg	-	-	-	-	-	-	-
Total PCBs	µg/kg	-	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location		SB249-13	SB250-13	SB250-13	SB250-13	SB250-13	SB250-13	SB250-13
Sample Identification	S	SO-17360-082013-MR-077	SO-17360-082013-MR-067	SO-17360-082013-MR-068	SO-17360-082013-MR-069	SO-17360-082013-MR-070	SO-17360-082013-MR-071	SO-17360-082013-MR-072
Sample Date		8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013
Sample Depth		(8-10) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Sample Type						Duplicate		
Semi-Volatile Organic Compounds (SVOCs)								
2,2'-Oxybis(1-chloropropane) ⁽⁵⁾	µg/kg	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/kg	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/kg	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/kg	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/kg	-	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/kg	-	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/kg	-	-	-	-	-	-	-
2-Chloronaphthalene	µg/kg	-	-	-	-	-	-	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	39 J	830 U	830 U	60 J	49 J	87	720
2-Methylphenol	µg/kg	-	-	-	-	-	-	-
2-Nitroaniline	µg/kg	-	-	-	-	-	-	-
2-Nitrophenol	µg/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-	-
3-Nitroaniline	µg/kg	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/kg	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/kg	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/kg	-	-	-	-	-	-	-
4-Chloroaniline	µg/kg	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/kg	-	-	-	-	-	-	-
4-Methylphenol	µg/kg	-	-	-	-	-	-	-
4-Nitroaniline	µg/kg	-	-	-	-	-	-	-
4-Nitrophenol	µg/kg	-	-	-	-	-	-	-
Acenaphthene	µg/kg	31 U	270 J	310 U	31 U	19 J	31 U	300
Acenaphthylene	µg/kg	25 J	310 U	310 U	25 J	27 J	28 J	48
Acetophenone	µg/kg	-	-	-	-	-	-	-
Anthracene	µg/kg	38	730	580	63	92	45	180
Atrazine	µg/kg	-	-	-	-	-	-	-
Benzaldehyde	µg/kg	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	60	1200	1100	180	310	56	280
Benzo(a)pyrene	µg/kg	100	1400	1500	210	310	99	280
Benzo(b)fluoranthene	µg/kg	100	1600	1600	260	410	150	410
Benzo(g,h,i)perylene	µg/kg	86	1100	1200	190	270	120	230
Benzo(k)fluoranthene	µg/kg	56	750	740	120	160	65	150
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/kg	-	-	-	-	-	-	-

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location		<i>SB249-13</i>	<i>SB250-13</i>	<i>SB250-13</i>	<i>SB250-13</i>	<i>SB250-13</i>	<i>SB250-13</i>	<i>SB250-13</i>
Sample Identification	S	<i>SO-17360-082013-MR-077</i>	<i>SO-17360-082013-MR-067</i>	<i>SO-17360-082013-MR-068</i>	<i>SO-17360-082013-MR-069</i>	<i>SO-17360-082013-MR-070</i>	<i>SO-17360-082013-MR-071</i>	<i>SO-17360-082013-MR-072</i>
Sample Date		8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013
Sample Depth		(8-10) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Sample Type						Duplicate		
SVOCs (continued)								
bis(2-Chloroethyl)ether	µg/kg	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-	-
Caprolactam	µg/kg	-	-	-	-	-	-	-
Carbazole	µg/kg	-	-	-	-	-	-	-
Chrysene	µg/kg	53	1100	1000	170	300	87	360
Dibenz(a,h)anthracene	µg/kg	72	740	750	86	120	79	110
Dibenzofuran	µg/kg	-	-	-	-	-	-	-
Diethyl phthalate	µg/kg	-	-	-	-	-	-	-
Dimethyl phthalate	µg/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-	-
Fluoranthene	µg/kg	92	3200	2400	310	510	110	420
Fluorene	µg/kg	31 U	310 U	310 U	31 U	20 J	31 U	110
Hexachlorobenzene	µg/kg	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/kg	-	-	-	-	-	-	-
Hexachloroethane	µg/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	75	1200	1300	220	330	120	290
Isophorone	µg/kg	-	-	-	-	-	-	-
Naphthalene	µg/kg	29 J	310 U	310 U	22 J	18 J	54	740 ^d
Nitrobenzene	µg/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	-	-	-	-	-	-	-
Phenanthrene	µg/kg	42	3000 ^d	1400	160	310	100	680
Phenol	µg/kg	-	-	-	-	-	-	-
Pyrene	µg/kg	76	2700	2100	360	580	98	530
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	µg/kg	34 U	38 U	37 U	35 U	34 U	32 U	41 U
1,1,2,2-Tetrachloroethane	µg/kg	34 U	38 U	37 U	35 U	34 U	32 U	41 U
1,1,2-Trichloroethane	µg/kg	34 U	38 U	37 U	35 U	34 U	32 U	41 U
1,1-Dichloroethane	µg/kg	34 U	38 U	37 U	35 U	34 U	32 U	41 U
1,1-Dichloroethene	µg/kg	34 U	38 U	37 U	35 U	34 U	32 U	41 U
1,2,4-Trichlorobenzene	µg/kg	34 U	38 U	37 U	35 U	34 U	32 U	41 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	34 U	38 U	37 U	35 U	34 U	32 U	41 U

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB249-13	SB250-13	SB250-13	SB250-13	SB250-13	SB250-13	SB250-13
Sample Identification	S SO-17360-082013-MR-077	SO-17360-082013-MR-067	SO-17360-082013-MR-068	SO-17360-082013-MR-069	SO-17360-082013-MR-070	SO-17360-082013-MR-071	SO-17360-082013-MR-072
Sample Date	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013
Sample Depth	(8-10) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Sample Type					Duplicate		
VOCs (continued)							
1,2-Dibromoethane ⁽⁶⁾	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
1,2-Dichlorobenzene	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
1,2-Dichloroethane	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
1,2-Dichloropropane	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
1,3-Dichlorobenzene	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
1,4-Dichlorobenzene	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
2-Butanone ⁽⁷⁾	µg/kg	220 U	250 U	230 U	220 U	210 U	280 U
2-Hexanone	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
4-Methyl-2-pentanone ⁽⁸⁾	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
Acetone	µg/kg	110 U	130 U	120 U	110 U	110 U	140 U
Benzene	µg/kg	1200 ^{bc}	38 U	26 J	35 U	34 U	41 U
Bromodichloromethane	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
Bromoform	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
Bromomethane (Methyl bromide)	µg/kg	84 U	94 U	92 U	87 U	84 U	100 U
Carbon disulfide	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
Carbon tetrachloride	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
Chlorobenzene	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
Chloroethane	µg/kg	110 U	130 U	120 U	120 U	110 U	140 U
Chloroform (Trichloromethane)	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
Chloromethane (Methyl chloride)	µg/kg	110 U	130 U	120 U	120 U	110 U	140 U
cis-1,2-Dichloroethene	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
cis-1,3-Dichloropropene	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
Cyclohexane	µg/kg	92	38 U	37 U	35 U	34 U	41 U
Dibromochloromethane	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
Dichlorodifluoromethane (CFC-12)	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
Ethylbenzene	µg/kg	250	23 J	27 J	35 U	34 U	35 J
Isopropyl benzene	µg/kg	75	38 U	37 U	35 U	34 U	33 J
Methyl acetate	µg/kg	220 U	110 J	250 U	230 U	220 U	280 U
Methyl cyclohexane	µg/kg	220	38 U	37 U	35 U	34 U	260
Methyl tert butyl ether (MTBE)	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
Methylene chloride	µg/kg	34 U	82 U	86 U	35 U	34 U	41 U
Styrene	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
Tetrachloroethene	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
Toluene	µg/kg	1900	38 U	52	35 U	34 U	98
trans-1,2-Dichloroethene	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
trans-1,3-Dichloropropene	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
Trichloroethene	µg/kg	630 ^{bc}	38 U	400 ^{bc}	250 ^{bc}	220 ^{bc}	1300 ^{bcd}
Trichlorofluoromethane (CFC-11)	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
Trifluorotrichloroethane (Freon 113)	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
Vinyl chloride	µg/kg	34 U	38 U	37 U	35 U	34 U	41 U
Xylenes (total)	µg/kg	790	110 J	110	100 U	100 U	230

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	<i>SB251-13</i>	<i>SB251-13</i>	<i>SB251-13</i>	<i>SB251-13</i>	<i>SB251-13</i>	<i>SB251-13</i>	<i>SB252-13</i>
Sample Identification	<i>S SO-17360-082013-MR-106</i>	<i>SO-17360-082013-MR-108</i>	<i>SO-17360-082013-MR-109</i>	<i>SO-17360-082013-MR-110</i>	<i>SO-17360-082013-MR-111</i>	<i>SO-17360-082013-MR-112</i>	<i>SO-17360-082013-MR-100</i>
Sample Date	<i>8/20/2013</i>	<i>8/20/2013</i>	<i>8/20/2013</i>	<i>8/20/2013</i>	<i>8/20/2013</i>	<i>8/20/2013</i>	<i>8/20/2013</i>
Sample Depth	<i>(0-2) ft BGS</i>	<i>(2-4) ft BGS</i>	<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(0-2) ft BGS</i>
Sample Type					<i>Duplicate</i>		

Metals**Units**

Antimony	µg/kg	730	13000 ^{bc}	6600 ^{bc}	950	950	5400 ^{bc}	1200
Arsenic	µg/kg	2000	5900 ^{bcd}	5700	2400	2400	2400	2600
Barium	µg/kg	36000	150000	76000	41000	41000	86000	38000
Beryllium	µg/kg	97 J	130 J	140 J	82 J	86 J	84 J	99 J
Cadmium	µg/kg	230	5500 ^d	2700	230	640	380	190
Chromium	µg/kg	14000	680000 ^{bcdno}	360000 ^{bcdno}	8900	8700	9000	13000
Cobalt	µg/kg	2200	41000 ^{bcd}	22000 ^{bcd}	1900	2300	2500	3000
Copper	µg/kg	12000	420000 ^d	120000 ^d	27000	39000	33000	16000
Iron	µg/kg	5300000	43000000 ^{bc}	35000000 ^{bc}	4500000	5800000	5700000	7400000
Lead	µg/kg	45000	270000	410000 ^p	41000	35000	25000	50000
Manganese	µg/kg	160000	1900000 ^{bcdno}	810000 ^{bcd}	120000	120000	190000	150000
Mercury	µg/kg	16 J	27 J	25 J	10 J	10 J	11 J	14 J
Molybdenum	µg/kg	3300 ^b	150000 ^{bcd}	86000 ^{bcd}	1100	1400	2400 ^b	4900 ^{bc}
Nickel	µg/kg	12000	480000 ^{bcd}	260000 ^{bcd}	7700	8700	11000	8900
Selenium	µg/kg	230 J	410	320 J	230 J	260 J	270 J	290 J
Silver	µg/kg	120 J	6600 ^{bd}	3700 ^d	57 J	120 J	330 J	84 J
Thallium	µg/kg	370 U	3900 U	380 U	350 U	360 U	380 U	13 J
Vanadium	µg/kg	7900	390 U	380 U	6400	7300	7600	11000
Zinc	µg/kg	59000	280000 ^d	130000	32000	67000	76000	26000

Polychlorinated Biphenyls (PCBs)

Aroclor-1016 (PCB-1016)	µg/kg	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/kg	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/kg	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/kg	-	-	-	-	-	-	-
Total PCBs	µg/kg	-	-	-	-	-	-	-

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location		SB251-13	SB251-13	SB251-13	SB251-13	SB251-13	SB251-13	SB252-13
Sample Identification	S	SO-17360-082013-MR-106	SO-17360-082013-MR-108	SO-17360-082013-MR-109	SO-17360-082013-MR-110	SO-17360-082013-MR-111	SO-17360-082013-MR-112	SO-17360-082013-MR-100
Sample Date		8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013
Sample Depth		(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(0-2) ft BGS
Sample Type						Duplicate		
Semi-Volatile Organic Compounds (SVOCs)								
2,2'-Oxybis(1-chloropropane) ⁽⁵⁾	µg/kg	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/kg	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/kg	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/kg	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/kg	-	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/kg	-	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/kg	-	-	-	-	-	-	-
2-Chloronaphthalene	µg/kg	-	-	-	-	-	-	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	840 U	840 U	840 U	840 U	840 U	85 U	820 U
2-Methylphenol	µg/kg	-	-	-	-	-	-	-
2-Nitroaniline	µg/kg	-	-	-	-	-	-	-
2-Nitrophenol	µg/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-	-
3-Nitroaniline	µg/kg	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/kg	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/kg	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/kg	-	-	-	-	-	-	-
4-Chloroaniline	µg/kg	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/kg	-	-	-	-	-	-	-
4-Methylphenol	µg/kg	-	-	-	-	-	-	-
4-Nitroaniline	µg/kg	-	-	-	-	-	-	-
4-Nitrophenol	µg/kg	-	-	-	-	-	-	-
Acenaphthene	µg/kg	320 U	320 U	320 U	310	310 U	24 J	310
Acenaphthylene	µg/kg	320 U	320 U	320 U	310 U	310 U	32 U	310 U
Acetophenone	µg/kg	-	-	-	-	-	-	-
Anthracene	µg/kg	230 J	320 U	220 J	360	310 U	53	410
Atrazine	µg/kg	-	-	-	-	-	-	-
Benzaldehyde	µg/kg	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	770	510	720	930	380	200	980
Benzo(a)pyrene	µg/kg	660	400	620	750	290 J	210	670
Benzo(b)fluoranthene	µg/kg	1100	1000	1000	1100	410	330	1100
Benzo(g,h,i)perylene	µg/kg	630	550	460	430	310 U	160	420
Benzo(k)fluoranthene	µg/kg	450 J	300 J	380	370	180 J	110	370
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/kg	-	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location		<i>SB251-13</i>	<i>SB251-13</i>	<i>SB251-13</i>	<i>SB251-13</i>	<i>SB251-13</i>	<i>SB251-13</i>	<i>SB252-13</i>
Sample Identification	S	<i>SO-17360-082013-MR-106</i>	<i>SO-17360-082013-MR-108</i>	<i>SO-17360-082013-MR-109</i>	<i>SO-17360-082013-MR-110</i>	<i>SO-17360-082013-MR-111</i>	<i>SO-17360-082013-MR-112</i>	<i>SO-17360-082013-MR-100</i>
Sample Date		8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013
Sample Depth		(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(0-2) ft BGS
Sample Type						Duplicate		
SVOCs (continued)								
bis(2-Chloroethyl)ether	µg/kg	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-	-
Caprolactam	µg/kg	-	-	-	-	-	-	-
Carbazole	µg/kg	-	-	-	-	-	-	-
Chrysene	µg/kg	850	690	700	300 J	300 J	210	940
Dibenz(a,h)anthracene	µg/kg	320 U	320 U	320 U	310 U	310 U	38	310 U
Dibenzofuran	µg/kg	-	-	-	-	-	-	-
Diethyl phthalate	µg/kg	-	-	-	-	-	-	-
Dimethyl phthalate	µg/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-	-
Fluoranthene	µg/kg	1800 J	900	1300	650 J	650	410	2700
Fluorene	µg/kg	320 U	320 U	320 U	240 J	310 U	19 J	180 J
Hexachlorobenzene	µg/kg	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/kg	-	-	-	-	-	-	-
Hexachloroethane	µg/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	490	480	470	450	230 J	160	440
Isophorone	µg/kg	-	-	-	-	-	-	-
Naphthalene	µg/kg	320 U	320 U	320 U	310 U	310 U	32 U	310 U
Nitrobenzene	µg/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	-	-	-	-	-	-	-
Phenanthrene	µg/kg	1200 J	550	930	1600	310	220	2600 ^d
Phenol	µg/kg	-	-	-	-	-	-	-
Pyrene	µg/kg	1600 J	770	1200	1600	510	360	2200
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	µg/kg	61 U	33 U	37 U	37 U	33 U	35 U	36 U
1,1,2,2-Tetrachloroethane	µg/kg	61 U	33 U	37 U	37 U	33 U	35 U	36 U
1,1,2-Trichloroethane	µg/kg	61 U	33 U	37 U	37 U	33 U	35 U	36 U
1,1-Dichloroethane	µg/kg	61 U	33 U	37 U	37 U	33 U	35 U	36 U
1,1-Dichloroethene	µg/kg	61 U	33 U	37 U	37 U	33 U	35 U	36 U
1,2,4-Trichlorobenzene	µg/kg	61 U	33 U	37 U	37 U	33 U	35 U	36 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	61 U	33 U	37 U	37 U	33 U	35 U	36 U

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB251-13		SB251-13		SB251-13		SB251-13		SB251-13		SB251-13		SB251-13		SB252-13	
Sample Identification	S	SO-17360-082013-MR-106	SO-17360-082013-MR-108	SO-17360-082013-MR-109	SO-17360-082013-MR-110	SO-17360-082013-MR-111	SO-17360-082013-MR-112	SO-17360-082013-MR-112	SO-17360-082013-MR-100							
Sample Date		8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013							
Sample Depth		(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(6-8) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(0-2) ft BGS							
Sample Type							Duplicate									
VOCs (continued)																
1,2-Dibromoethane ⁽⁶⁾	µg/kg	61 U	33 U	37 U	37 U	33 U		35 U								36 U
1,2-Dichlorobenzene	µg/kg	61 U	33 U	37 U	37 U	33 U		35 U								36 U
1,2-Dichloroethane	µg/kg	61 U	33 U	37 U	37 U	33 U		35 U								36 U
1,2-Dichloropropane	µg/kg	61 U	33 U	37 U	37 U	33 U		35 U								36 U
1,3-Dichlorobenzene	µg/kg	61 U	33 U	37 U	37 U	33 U		35 U								36 U
1,4-Dichlorobenzene	µg/kg	61 U	33 U	37 U	37 U	33 U		35 U								36 U
2-Butanone ⁽⁷⁾	µg/kg	400 U	220 U	240 U	240 U	220 U		230 U								100 J
2-Hexanone	µg/kg	61 U	33 U	37 U	37 U	33 U		35 U								36 U
4-Methyl-2-pentanone ⁽⁸⁾	µg/kg	61 U	33 U	37 U	37 U	33 U		35 U								36 U
Acetone	µg/kg	200 U	110 U	120 U	120 U	110 U		120 U								140 U
Benzene	µg/kg	61 U	33 U	50	37 U	33 U		35 U								36 U
Bromodichloromethane	µg/kg	61 U	33 U	37 U	37 U	33 U		35 U								36 U
Bromoform	µg/kg	61 U	33 U	37 U	37 U	33 U		35 U								36 U
Bromomethane (Methyl bromide)	µg/kg	150 UJ	81 UJ	92 UJ	92 UJ	83 UJ		86 UJ								89 U
Carbon disulfide	µg/kg	61 U	33 U	37 U	37 U	33 U		35 U								36 U
Carbon tetrachloride	µg/kg	61 U	33 U	37 U	37 U	33 U		35 U								36 U
Chlorobenzene	µg/kg	61 U	33 U	37 U	37 U	33 U		35 U								36 U
Chloroethane	µg/kg	200 U	110 U	120 U	120 U	110 U		120 U								120 U
Chloroform (Trichloromethane)	µg/kg	61 U	33 U	37 U	37 U	33 U		35 U								36 U
Chloromethane (Methyl chloride)	µg/kg	200 U	110 U	120 U	120 U	110 U		120 U								120 U
cis-1,2-Dichloroethene	µg/kg	61 U	61	37 U	37 U	33 U		35 U								36 U
cis-1,3-Dichloropropene	µg/kg	61 U	33 U	37 U	37 U	33 U		35 U								36 U
Cyclohexane	µg/kg	61 U	33 U	37 U	37 U	33 U		35 U								46
Dibromochloromethane	µg/kg	61 UJ	33 U	37 U	37 U	33 U		35 U								36 U
Dichlorodifluoromethane (CFC-12)	µg/kg	61 U	33 U	37 U	37 U	33 U		35 U								36 U
Ethylbenzene	µg/kg	61 U	33 U	64	37 U	33 U		35 U								15 J
Isopropyl benzene	µg/kg	61 U	33 U	40	37 U	33 U		35 U								36 U
Methyl acetate	µg/kg	180 J	220 U	240 U	240 U	340		230 U								73 J
Methyl cyclohexane	µg/kg	57 J	33 U	200	37 U	33 U		35 U								210
Methyl tert butyl ether (MTBE)	µg/kg	61 U	33 U	37 U	37 U	33 U		35 U								36 U
Methylene chloride	µg/kg	120 U	33 U	37 U	37 U	33 U		35 U								89 U
Styrene	µg/kg	61 U	33 U	37 U	37 U	33 U		35 U								36 U
Tetrachloroethene	µg/kg	61 U	33 U	37 U	37 U	33 U		35 U								36 U
Toluene	µg/kg	28 J	33 U	350	37 U	33 U		35 U								78
trans-1,2-Dichloroethene	µg/kg	61 U	33 U	37 U	37 U	33 U		35 U								36 U
trans-1,3-Dichloropropene	µg/kg	61 U	33 U	37 U	37 U	33 U		35 U								36 U
Trichloroethene	µg/kg	270 ^{bc}	4300 ^{bcdg}	3600 ^{bcdg}	370 ^{bc}	690 ^{bc}		420 ^{bc}								1300 ^{bcd}
Trichlorofluoromethane (CFC-11)	µg/kg	61 U	33 U	37 U	37 U	33 U		35 U								36 U
Trifluorotrichloroethane (Freon 113)	µg/kg	61 U	33 U	37 U	37 U	33 U		35 U								36 U
Vinyl chloride	µg/kg	61 U	33 U	37 U	37 U	33 U		35 U								36 U
Xylenes (total)	µg/kg	180 U	98 U	310	110 U	100 U		100 U								170

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location	SB252-13		SB252-13		SB252-13		SB252-13		SB253-13	
Sample Identification	S	SO-17360-082013-MR-101	SO-17360-082013-MR-102	SO-17360-082013-MR-103	SO-17360-082013-MR-104	SO-17360-082013-MR-105	SO-17360-082013-MR-095	SO-17360-082013-MR-096		
Sample Date	8/20/2013		8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	
Sample Depth	(2-4) ft BGS		(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(0-2) ft BGS	(2-4) ft BGS		
Sample Type			Duplicate							
Metals	Units									
Antimony	µg/kg	100 J	100 J	80 J	2100	510	950	400		
Arsenic	µg/kg	1000	1000	910	2200	1400	2100	2500		
Barium	µg/kg	8100	8100	6500	30000	33000	53000 J	22000 J		
Beryllium	µg/kg	41 J	45 J	42 J	48 J	120 J	110 J	90 J		
Cadmium	µg/kg	33 J	46 J	28 J	450	410	160	120 J		
Chromium	µg/kg	3300	3200	2700	18000	7800	15000	32000 ^{bcd}		
Cobalt	µg/kg	930	1000	920	3800	1700	2600	2600		
Copper	µg/kg	3100	4900	3700	75000	9100	9900	11000		
Iron	µg/kg	2400000	2600000	2500000	9300000	5000000	7900000	7100000		
Lead	µg/kg	3300	4600	2900	230000	35000	99000	16000		
Manganese	µg/kg	56000	67000	62000	140000	91000	230000	230000		
Mercury	µg/kg	4.8 J	5.5 J	4.6 J	9.1 J	14 J	17 J	19 J		
Molybdenum	µg/kg	580	580	470	13000 ^{bc}	4700 ^{bc}	1500	4300 ^{bc}		
Nickel	µg/kg	3800	3300	2400	23000	8100	10000	16000		
Selenium	µg/kg	190 J	190 J	170 J	160 J	300 J	320 J	290 J		
Silver	µg/kg	22 J	23 J	4.2 J	390	730	130 J	180 J		
Thallium	µg/kg	360 U	360 U	360 U	370 U	370 U	45 J	47 J		
Vanadium	µg/kg	3600	4100	3600	4000	6700	14000 J	10000 J		
Zinc	µg/kg	8000	9200	9100	58000	25000	31000	23000		
Polychlorinated Biphenyls (PCBs)										
Aroclor-1016 (PCB-1016)	µg/kg	-	-	-	-	-	-	-		
Aroclor-1221 (PCB-1221)	µg/kg	-	-	-	-	-	-	-		
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	-	-	-	-		
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	-	-	-	-		
Aroclor-1248 (PCB-1248)	µg/kg	-	-	-	-	-	-	-		
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	-	-	-	-		
Aroclor-1260 (PCB-1260)	µg/kg	-	-	-	-	-	-	-		
Total PCBs	µg/kg	-	-	-	-	-	-	-		

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB252-13	SB252-13	SB252-13	SB252-13	SB252-13	SB253-13	SB253-13
Sample Identification	S SO-17360-082013-MR-101	SO-17360-082013-MR-102	SO-17360-082013-MR-103	SO-17360-082013-MR-104	SO-17360-082013-MR-105	SO-17360-082013-MR-095	SO-17360-082013-MR-096
Sample Date	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013
Sample Depth	(2-4) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(0-2) ft BGS	(2-4) ft BGS
Sample Type		Duplicate					
Semi-Volatile Organic Compounds (SVOCs)							
2,2'-Oxybis(1-chloropropane) ⁽⁵⁾	µg/kg	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrophenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2-Chloronaphthalene	µg/kg	-	-	-	-	-	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	82 U	83 U	82 U	840 U	87 U	330 J
2-Methylphenol	µg/kg	-	-	-	-	-	-
2-Nitroaniline	µg/kg	-	-	-	-	-	-
2-Nitrophenol	µg/kg	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-
3-Nitroaniline	µg/kg	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/kg	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/kg	-	-	-	-	-	-
4-Chloroaniline	µg/kg	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Methylphenol	µg/kg	-	-	-	-	-	-
4-Nitroaniline	µg/kg	-	-	-	-	-	-
4-Nitrophenol	µg/kg	-	-	-	-	-	-
Acenaphthene	µg/kg	49	33	41	190 J	33 U	600
Acenaphthylene	µg/kg	31 U	31 U	31 U	320 U	33 U	320 U
Acetophenone	µg/kg	-	-	-	-	-	-
Anthracene	µg/kg	140	160	99	330	33 U	750
Atrazine	µg/kg	-	-	-	-	-	-
Benzaldehyde	µg/kg	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	310	280	280	1100	44	2100
Benzo(a)pyrene	µg/kg	250	230	250	870	32 J	1600
Benzo(b)fluoranthene	µg/kg	380	340	380	1200	69	2500
Benzo(g,h,i)perylene	µg/kg	230	160	200	510	38	840
Benzo(k)fluoranthene	µg/kg	110	110	100	470	24 J	880
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/kg	-	-	-	-	-	-

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location		<i>SB252-13</i>	<i>SB252-13</i>	<i>SB252-13</i>	<i>SB252-13</i>	<i>SB252-13</i>	<i>SB253-13</i>	<i>SB253-13</i>
Sample Identification	S	<i>SO-17360-082013-MR-101</i>	<i>SO-17360-082013-MR-102</i>	<i>SO-17360-082013-MR-103</i>	<i>SO-17360-082013-MR-104</i>	<i>SO-17360-082013-MR-105</i>	<i>SO-17360-082013-MR-095</i>	<i>SO-17360-082013-MR-096</i>
Sample Date		8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013
Sample Depth		(2-4) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(0-2) ft BGS	(2-4) ft BGS
Sample Type			Duplicate					
SVOCs (continued)								
bis(2-Chloroethyl)ether	µg/kg	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-	-
Caprolactam	µg/kg	-	-	-	-	-	-	-
Carbazole	µg/kg	-	-	-	-	-	-	-
Chrysene	µg/kg	300	300	280	990	43	2100	880
Dibenz(a,h)anthracene	µg/kg	52	37	42	320 U	33 U	210 J	320 U
Dibenzofuran	µg/kg	-	-	-	-	-	-	-
Diethyl phthalate	µg/kg	-	-	-	-	-	-	-
Dimethyl phthalate	µg/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-	-
Fluoranthene	µg/kg	780	640	600	2700	70	5800 ^d	1700
Fluorene	µg/kg	52	36	42	320 U	33 U	320	320 U
Hexachlorobenzene	µg/kg	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/kg	-	-	-	-	-	-	-
Hexachloroethane	µg/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	220	160	190	520	35	910	530
Isophorone	µg/kg	-	-	-	-	-	-	-
Naphthalene	µg/kg	31 U	31 U	31 U	320 U	33 U	250 J	320 U
Nitrobenzene	µg/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	-	-	-	-	-	-	-
Phenanthrene	µg/kg	560	460	460	1600	38	5100 ^d	890
Phenol	µg/kg	-	-	-	-	-	-	-
Pyrene	µg/kg	700	480	480	2000	59	4900	1500
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U
1,1,2,2-Tetrachloroethane	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U
1,1,2-Trichloroethane	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U
1,1-Dichloroethane	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U
1,1-Dichloroethene	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U
1,2,4-Trichlorobenzene	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB252-13		SB252-13		SB252-13		SB252-13		SB252-13		SB253-13		SB253-13	
Sample Identification	S	SO-17360-082013-MR-101	SO-17360-082013-MR-102	SO-17360-082013-MR-103	SO-17360-082013-MR-104	SO-17360-082013-MR-105	SO-17360-082013-MR-095	SO-17360-082013-MR-096						
Sample Date		8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013						
Sample Depth		(2-4) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(0-2) ft BGS	(2-4) ft BGS						
Sample Type			Duplicate											
VOCs (continued)														
1,2-Dibromoethane ⁽⁶⁾	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
1,2-Dichlorobenzene	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
1,2-Dichloroethane	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
1,2-Dichloropropane	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
1,3-Dichlorobenzene	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
1,4-Dichlorobenzene	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
2-Butanone ⁽⁷⁾	µg/kg	230 U	230 U	270 U	220 U	230 U	220 U	210 U						
2-Hexanone	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
4-Methyl-2-pentanone ⁽⁸⁾	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
Acetone	µg/kg	120 U	110 U	130 U	110 U	120 U	110 U	110 U						
Benzene	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
Bromodichloromethane	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
Bromoform	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
Bromomethane (Methyl bromide)	µg/kg	88 U	84 U	100 U	82 U	86 U	81 U	79 U						
Carbon disulfide	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
Carbon tetrachloride	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
Chlorobenzene	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
Chloroethane	µg/kg	120 U	110 U	130 U	110 U	120 U	110 U	110 U						
Chloroform (Trichloromethane)	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
Chloromethane (Methyl chloride)	µg/kg	120 U	110 U	130 U	110 U	120 U	110 U	110 U						
cis-1,2-Dichloroethene	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
cis-1,3-Dichloropropene	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
Cyclohexane	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
Dibromochloromethane	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
Dichlorodifluoromethane (CFC-12)	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
Ethylbenzene	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
Isopropyl benzene	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
Methyl acetate	µg/kg	230 U	230 U	270 U	220 U	230 U	190 J	210 U						
Methyl cyclohexane	µg/kg	35 U	34 U	40 U	33 U	35 U	32 J	32 U						
Methyl tert butyl ether (MTBE)	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
Methylene chloride	µg/kg	82 U	79 U	40 U	33 U	35 U	92 U	90 U						
Styrene	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
Tetrachloroethene	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
Toluene	µg/kg	35 U	34 U	40 U	33 U	35 U	44	32 U						
trans-1,2-Dichloroethene	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
trans-1,3-Dichloropropene	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
Trichloroethene	µg/kg	35 U	190 ^{bc}	40 U	460 ^{bc}	860 ^{bc}	150 ^{bc}	32 U						
Trichlorofluoromethane (CFC-11)	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
Trifluorotrichloroethane (Freon 113)	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
Vinyl chloride	µg/kg	35 U	34 U	40 U	33 U	35 U	32 U	32 U						
Xylenes (total)	µg/kg	110 U	100 U	120 U	99 U	100 U	53 J	95 U						

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location	<i>SB253-13</i>		<i>SB253-13</i>		<i>SB253-13</i>		<i>SB254-13</i>		<i>SB254-13</i>		<i>SB255-13</i>		<i>SB255-13</i>	
Sample Identification	<i>S</i>	<i>SO-17360-082013-MR-097</i>	<i>SO-17360-082013-MR-098</i>	<i>SO-17360-082013-MR-099</i>	<i>SO-017360-082113-MR-113</i>	<i>SO-017360-082113-MR-114</i>	<i>SO-017360-081913-MR-010</i>	<i>SO-017360-081913-MR-011</i>						
Sample Date		<i>8/20/2013</i>	<i>8/20/2013</i>	<i>8/20/2013</i>	<i>8/21/2013</i>	<i>8/21/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>						
Sample Depth		<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(9-9.75) ft BGS</i>	<i>(9.75-11) ft BGS</i>	<i>(2-4) ft BGS</i>	<i>(4-6) ft BGS</i>						
Sample Type														
Metals														
	<i>Units</i>													
Antimony	µg/kg	390	150 J	150 J	-	-	-	-						
Arsenic	µg/kg	2400	2000	1800	-	-	-	-						
Barium	µg/kg	19000	20000	20000	-	-	-	-						
Beryllium	µg/kg	100 J	120 J	110 J	-	-	-	-						
Cadmium	µg/kg	150	68 J	94 J	-	-	-	-						
Chromium	µg/kg	5000	4900	6200	-	-	-	-						
Cobalt	µg/kg	1700	1800	2300	-	-	-	-						
Copper	µg/kg	20000	4500	6100	-	-	-	-						
Iron	µg/kg	4700000	6700000	5700000	-	-	-	-						
Lead	µg/kg	40000	8200	17000	-	-	-	-						
Manganese	µg/kg	110000	130000	180000	-	-	-	-						
Mercury	µg/kg	13 J	65	36 J	-	-	-	-						
Molybdenum	µg/kg	590	410	350 J	-	-	-	-						
Nickel	µg/kg	12000	4300	5500	-	-	-	-						
Selenium	µg/kg	190 J	340 J	390 J	-	-	-	-						
Silver	µg/kg	72 J	3.4 J	6.5 J	-	-	-	-						
Thallium	µg/kg	18 J	38 J	12 J	-	-	-	-						
Vanadium	µg/kg	7400	9100	9100	-	-	-	-						
Zinc	µg/kg	17000	15000	16000	-	-	-	-						
Polychlorinated Biphenyls (PCBs)														
Aroclor-1016 (PCB-1016)	µg/kg	-	-	-	-	-	330 U	340 U						
Aroclor-1221 (PCB-1221)	µg/kg	-	-	-	-	-	330 U	340 U						
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	-	-	330 U	340 U						
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	-	-	330 U	340 U						
Aroclor-1248 (PCB-1248)	µg/kg	-	-	-	-	-	330 U	340 U						
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	-	-	330 U	340 U						
Aroclor-1260 (PCB-1260)	µg/kg	-	-	-	-	-	330 U	340 U						
Total PCBs	µg/kg	-	-	-	-	-	0	0						

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location	SB253-13	SB253-13	SB253-13	SB254-13	SB254-13	SB255-13	SB255-13
Sample Identification	S SO-17360-082013-MR-097	SO-17360-082013-MR-098	SO-17360-082013-MR-099	SO-017360-082113-MR-113	SO-017360-082113-MR-114	SO-017360-081913-MR-010	SO-017360-081913-MR-011
Sample Date	8/20/2013	8/20/2013	8/20/2013	8/21/2013	8/21/2013	8/19/2013	8/19/2013
Sample Depth	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(9-9.75) ft BGS	(9.75-11) ft BGS	(2-4) ft BGS	(4-6) ft BGS
Sample Type							
Semi-Volatile Organic Compounds (SVOCs)							
2,2'-Oxybis(1-chloropropane) ⁽⁵⁾	µg/kg	-	-	310 U	180 U	-	-
2,4,5-Trichlorophenol	µg/kg	-	-	310 U	180 U	-	-
2,4,6-Trichlorophenol	µg/kg	-	-	310 U	180 U	-	-
2,4-Dichlorophenol	µg/kg	-	-	310 U	180 U	-	-
2,4-Dimethylphenol	µg/kg	-	-	630 U	370 U	-	-
2,4-Dinitrophenol	µg/kg	-	-	1300 U	740 U	-	-
2,4-Dinitrotoluene	µg/kg	-	-	310 U	180 U	-	-
2,6-Dinitrotoluene	µg/kg	-	-	310 U	180 U	-	-
2-Chloronaphthalene	µg/kg	-	-	150 U	90 U	-	-
2-Chlorophenol	µg/kg	-	-	310 U	180 U	-	-
2-Methylnaphthalene	µg/kg	830 U	730 J	150 U	51 J	-	-
2-Methylphenol	µg/kg	-	-	310 U	180 U	-	-
2-Nitroaniline	µg/kg	-	-	1300 U	740 U	-	-
2-Nitrophenol	µg/kg	-	-	310 U	180 U	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	1300 U	740 U	-	-
3-Nitroaniline	µg/kg	-	-	1300 U	740 U	-	-
4,6-Dinitro-2-methylphenol	µg/kg	-	-	630 U	370 U	-	-
4-Bromophenyl phenyl ether	µg/kg	-	-	310 U	180 U	-	-
4-Chloro-3-methylphenol	µg/kg	-	-	310 U	180 U	-	-
4-Chloroaniline	µg/kg	-	-	1300 U	740 U	-	-
4-Chlorophenyl phenyl ether	µg/kg	-	-	310 U	180 U	-	-
4-Methylphenol	µg/kg	-	-	310 U	180 U	-	-
4-Nitroaniline	µg/kg	-	-	1300 U	740 U	-	-
4-Nitrophenol	µg/kg	-	-	1300 U	740 U	-	-
Acenaphthene	µg/kg	310 U	310 U	58 U	52	-	-
Acenaphthylene	µg/kg	310 U	310 U	58 U	120	-	-
Acetophenone	µg/kg	-	-	630 U	370 U	-	-
Anthracene	µg/kg	310 U	250 J	58 U	160	-	-
Atrazine	µg/kg	-	-	630 U	370 U	-	-
Benzaldehyde	µg/kg	-	-	630 U	370 U	-	-
Benzo(a)anthracene	µg/kg	480	660	58 U	820	-	-
Benzo(a)pyrene	µg/kg	350	560	58 U	670	-	-
Benzo(b)fluoranthene	µg/kg	690	2300	58 U	850	-	-
Benzo(g,h,i)perylene	µg/kg	310 U	750	32 U	370	-	-
Benzo(k)fluoranthene	µg/kg	270 J	570	32 U	300	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	630 U	370 U	-	-
bis(2-Chloroethoxy)methane	µg/kg	-	-	310 U	180 U	-	-

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location		SB253-13	SB253-13	SB253-13	SB254-13	SB254-13	SB255-13	SB255-13
Sample Identification	S	SO-17360-082013-MR-097	SO-17360-082013-MR-098	SO-17360-082013-MR-099	SO-017360-082113-MR-113	SO-017360-082113-MR-114	SO-017360-081913-MR-010	SO-017360-081913-MR-011
Sample Date		8/20/2013	8/20/2013	8/20/2013	8/21/2013	8/21/2013	8/19/2013	8/19/2013
Sample Depth		(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(9-9.75) ft BGS	(9.75-11) ft BGS	(2-4) ft BGS	(4-6) ft BGS
Sample Type								
SVOCs (continued)								
bis(2-Chloroethyl)ether	µg/kg	-	-	-	310 U	180 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	630 U	370 U	-	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	310 U	180 U	-	-
Caprolactam	µg/kg	-	-	-	630 U	370 U	-	-
Carbazole	µg/kg	-	-	-	310 U	55 J	-	-
Chrysene	µg/kg	470	890	39	58 U	620	-	-
Dibenz(a,h)anthracene	µg/kg	310 U	230 J	32 U	58 U	150	-	-
Dibenzofuran	µg/kg	-	-	-	310 U	180 U	-	-
Diethyl phthalate	µg/kg	-	-	-	630 U	370 U	-	-
Dimethyl phthalate	µg/kg	-	-	-	630 U	370 U	-	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	630 U	68 J	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	310 U	180 U	-	-
Fluoranthene	µg/kg	770	870	64	100	1100 J	-	-
Fluorene	µg/kg	310 U	310 U	32 U	58 U	32 J	-	-
Hexachlorobenzene	µg/kg	-	-	-	310 U	180 U	-	-
Hexachlorobutadiene	µg/kg	-	-	-	310 U	180 U	-	-
Hexachlorocyclopentadiene	µg/kg	-	-	-	630 U	370 U	-	-
Hexachloroethane	µg/kg	-	-	-	310 U	180 U	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	240 J	970	21 J	58 U	510	-	-
Isophorone	µg/kg	-	-	-	310 U	180 U	-	-
Naphthalene	µg/kg	310 U	670	32 U	58 U	65	-	-
Nitrobenzene	µg/kg	-	-	-	55 J	180 U	-	-
N-Nitrosodi-n-propylamine	µg/kg	-	-	-	310 U	180 U	-	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	310 U	180 U	-	-
Pentachlorophenol	µg/kg	-	-	-	630 U	370 U	-	-
Phenanthrene	µg/kg	410	660	33	58 U	130	-	-
Phenol	µg/kg	-	-	-	310 U	180 U	-	-
Pyrene	µg/kg	770	850	72	47 J	1100	-	-
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-
1,1,2,2-Tetrachloroethane	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-
1,1,2-Trichloroethane	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-
1,1-Dichloroethane	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-
1,1-Dichloroethene	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-
1,2,4-Trichlorobenzene	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB253-13		SB253-13		SB253-13		SB254-13		SB254-13		SB255-13		SB255-13	
Sample Identification	S	SO-17360-082013-MR-097	SO-17360-082013-MR-098	SO-17360-082013-MR-099	SO-017360-082113-MR-113	SO-017360-082113-MR-114	SO-017360-081913-MR-010	SO-017360-081913-MR-011						
Sample Date		8/20/2013	8/20/2013	8/20/2013	8/21/2013	8/21/2013	8/19/2013	8/19/2013						
Sample Depth		(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(9-9.75) ft BGS	(9.75-11) ft BGS	(2-4) ft BGS	(4-6) ft BGS						
Sample Type														
VOCs (continued)														
1,2-Dibromoethane ⁽⁶⁾	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
1,2-Dichlorobenzene	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
1,2-Dichloroethane	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
1,2-Dichloropropane	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
1,3-Dichlorobenzene	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
1,4-Dichlorobenzene	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
2-Butanone ⁽⁷⁾	µg/kg	210 U	220 U	110 J	480 U	250 U	-	-						
2-Hexanone	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
4-Methyl-2-pentanone ⁽⁸⁾	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
Acetone	µg/kg	110 U	110 U	480 U	240 U	120 U	-	-						
Benzene	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
Bromodichloromethane	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
Bromoform	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
Bromomethane (Methyl bromide)	µg/kg	79 U	84 U	110 U	180 UJ	93 UJ	-	-						
Carbon disulfide	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
Carbon tetrachloride	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
Chlorobenzene	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
Chloroethane	µg/kg	110 U	110 U	140 U	240 U	120 U	-	-						
Chloroform (Trichloromethane)	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
Chloromethane (Methyl chloride)	µg/kg	110 U	110 U	140 U	240 U	120 U	-	-						
cis-1,2-Dichloroethene	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
cis-1,3-Dichloropropene	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
Cyclohexane	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
Dibromochloromethane	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
Dichlorodifluoromethane (CFC-12)	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
Ethylbenzene	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
Isopropyl benzene	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
Methyl acetate	µg/kg	210 U	220 U	280 U	480 U	250 U	-	-						
Methyl cyclohexane	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
Methyl tert butyl ether (MTBE)	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
Methylene chloride	µg/kg	85 U	73 U	120 U	73 U	37 U	-	-						
Styrene	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
Tetrachloroethene	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
Toluene	µg/kg	32 U	21 J	42 U	73 U	37 U	-	-						
trans-1,2-Dichloroethene	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
trans-1,3-Dichloropropene	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
Trichloroethene	µg/kg	160 ^{bc}	560 ^{bc}	42 U	73 U	37 U	-	-						
Trichlorofluoromethane (CFC-11)	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
Trifluorotrichloroethane (Freon 113)	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
Vinyl chloride	µg/kg	32 U	34 U	42 U	73 U	37 U	-	-						
Xylenes (total)	µg/kg	95 U	57 J	130 U	220 U	110 U	-	-						

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location	<i>SB255-13</i>	<i>SB255-13</i>	<i>SB255-13</i>	<i>SB255-13</i>	<i>SB255-13</i>	<i>SB255-13</i>	<i>SB256-13</i>
Sample Identification	<i>S SO-017360-081913-MR-012</i>	<i>SO-017360-081913-MR-013</i>	<i>SO-017360-081913-MR-018</i>	<i>SO-017360-081913-MR-014</i>	<i>SO-017360-081913-MR-015</i>	<i>SO-017360-081913-MR-016</i>	<i>SO-017360-081913-MR-001</i>
Sample Date	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>
Sample Depth	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(10-12) ft BGS</i>	<i>(12-14) ft BGS</i>	<i>(14-16) ft BGS</i>	<i>(0-2) ft BGS</i>
Sample Type			<i>Duplicate</i>				
<i>Metals</i>	<i>Units</i>						
Antimony	µg/kg	-	-	-	-	-	-
Arsenic	µg/kg	-	-	-	-	-	-
Barium	µg/kg	-	-	-	-	-	-
Beryllium	µg/kg	-	-	-	-	-	-
Cadmium	µg/kg	-	-	-	-	-	-
Chromium	µg/kg	-	-	-	-	-	-
Cobalt	µg/kg	-	-	-	-	-	-
Copper	µg/kg	-	-	-	-	-	-
Iron	µg/kg	-	-	-	-	-	-
Lead	µg/kg	-	-	-	-	-	-
Manganese	µg/kg	-	-	-	-	-	-
Mercury	µg/kg	-	-	-	-	-	-
Molybdenum	µg/kg	-	-	-	-	-	-
Nickel	µg/kg	-	-	-	-	-	-
Selenium	µg/kg	-	-	-	-	-	-
Silver	µg/kg	-	-	-	-	-	-
Thallium	µg/kg	-	-	-	-	-	-
Vanadium	µg/kg	-	-	-	-	-	-
Zinc	µg/kg	-	-	-	-	-	-
<i>Polychlorinated Biphenyls (PCBs)</i>							
Aroclor-1016 (PCB-1016)	µg/kg	320 U	340 U	340 U	350 U	330 U	340 U
Aroclor-1221 (PCB-1221)	µg/kg	320 U	340 U	340 U	350 U	330 U	340 U
Aroclor-1232 (PCB-1232)	µg/kg	320 U	340 U	340 U	350 U	330 U	340 U
Aroclor-1242 (PCB-1242)	µg/kg	320 U	340 U	340 U	350 U	330 U	340 U
Aroclor-1248 (PCB-1248)	µg/kg	320 U	340 U	340 U	350 U	330 U	340 U
Aroclor-1254 (PCB-1254)	µg/kg	320 U	340 U	340 U	350 U	330 U	340 U
Aroclor-1260 (PCB-1260)	µg/kg	320 U	340 U	340 U	350 U	330 U	340 U
Total PCBs	µg/kg	0	0	0	0	0	0

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB255-13	SB255-13	SB255-13	SB255-13	SB255-13	SB255-13	SB256-13
Sample Identification	S SO-017360-081913-MR-012	SO-017360-081913-MR-013	SO-017360-081913-MR-018	SO-017360-081913-MR-014	SO-017360-081913-MR-015	SO-017360-081913-MR-016	SO-017360-081913-MR-001
Sample Date	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013
Sample Depth	(6-8) ft BGS	(8-10) ft BGS	(8-10) ft BGS	(10-12) ft BGS	(12-14) ft BGS	(14-16) ft BGS	(0-2) ft BGS
Sample Type			Duplicate				

Semi-Volatile Organic Compounds (SVOCs)

2,2'-Oxybis(1-chloropropane) ⁽⁵⁾	µg/kg	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrophenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2-Chloronaphthalene	µg/kg	-	-	-	-	-	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	-	-	-	-	-	-
2-Methylphenol	µg/kg	-	-	-	-	-	-
2-Nitroaniline	µg/kg	-	-	-	-	-	-
2-Nitrophenol	µg/kg	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-
3-Nitroaniline	µg/kg	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/kg	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/kg	-	-	-	-	-	-
4-Chloroaniline	µg/kg	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Methylphenol	µg/kg	-	-	-	-	-	-
4-Nitroaniline	µg/kg	-	-	-	-	-	-
4-Nitrophenol	µg/kg	-	-	-	-	-	-
Acenaphthene	µg/kg	-	-	-	-	-	-
Acenaphthylene	µg/kg	-	-	-	-	-	-
Acetophenone	µg/kg	-	-	-	-	-	-
Anthracene	µg/kg	-	-	-	-	-	-
Atrazine	µg/kg	-	-	-	-	-	-
Benzaldehyde	µg/kg	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	-	-	-	-	-	-
Benzo(a)pyrene	µg/kg	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/kg	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/kg	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB255-13	SB255-13	SB255-13	SB255-13	SB255-13	SB255-13	SB256-13
Sample Identification	S SO-017360-081913-MR-012	SO-017360-081913-MR-013	SO-017360-081913-MR-018	SO-017360-081913-MR-014	SO-017360-081913-MR-015	SO-017360-081913-MR-016	SO-017360-081913-MR-001
Sample Date	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013
Sample Depth	(6-8) ft BGS	(8-10) ft BGS	(8-10) ft BGS	(10-12) ft BGS	(12-14) ft BGS	(14-16) ft BGS	(0-2) ft BGS
Sample Type			Duplicate				

SVOCs (continued)

bis(2-Chloroethyl)ether	µg/kg	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-
Caprolactam	µg/kg	-	-	-	-	-	-
Carbazole	µg/kg	-	-	-	-	-	-
Chrysene	µg/kg	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/kg	-	-	-	-	-	-
Dibenzofuran	µg/kg	-	-	-	-	-	-
Diethyl phthalate	µg/kg	-	-	-	-	-	-
Dimethyl phthalate	µg/kg	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-
Fluoranthene	µg/kg	-	-	-	-	-	-
Fluorene	µg/kg	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/kg	-	-	-	-	-	-
Hexachloroethane	µg/kg	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	-	-	-	-
Isophorone	µg/kg	-	-	-	-	-	-
Naphthalene	µg/kg	-	-	-	-	-	-
Nitrobenzene	µg/kg	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/kg	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-
Pentachlorophenol	µg/kg	-	-	-	-	-	-
Phenanthrene	µg/kg	-	-	-	-	-	-
Phenol	µg/kg	-	-	-	-	-	-
Pyrene	µg/kg	-	-	-	-	-	-

Volatile Organic Compounds (VOCs)

1,1,1-Trichloroethane	µg/kg	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	-	-	-	-	-	-
1,1-Dichloroethane	µg/kg	-	-	-	-	-	-
1,1-Dichloroethene	µg/kg	-	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB255-13	SB255-13	SB255-13	SB255-13	SB255-13	SB255-13	SB256-13
Sample Identification	S SO-017360-081913-MR-012	SO-017360-081913-MR-013	SO-017360-081913-MR-018	SO-017360-081913-MR-014	SO-017360-081913-MR-015	SO-017360-081913-MR-016	SO-017360-081913-MR-001
Sample Date	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013
Sample Depth	(6-8) ft BGS	(8-10) ft BGS	(8-10) ft BGS	(10-12) ft BGS	(12-14) ft BGS	(14-16) ft BGS	(0-2) ft BGS
Sample Type			Duplicate				
VOCs (continued)							
1,2-Dibromoethane ⁽⁶⁾	µg/kg	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	-	-	-	-	-	-
1,2-Dichloroethane	µg/kg	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	-	-	-	-	-	-
2-Butanone ⁽⁷⁾	µg/kg	-	-	-	-	-	-
2-Hexanone	µg/kg	-	-	-	-	-	-
4-Methyl-2-pentanone ⁽⁸⁾	µg/kg	-	-	-	-	-	-
Acetone	µg/kg	-	-	-	-	-	-
Benzene	µg/kg	-	-	-	-	-	-
Bromodichloromethane	µg/kg	-	-	-	-	-	-
Bromoform	µg/kg	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/kg	-	-	-	-	-	-
Carbon disulfide	µg/kg	-	-	-	-	-	-
Carbon tetrachloride	µg/kg	-	-	-	-	-	-
Chlorobenzene	µg/kg	-	-	-	-	-	-
Chloroethane	µg/kg	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg	-	-	-	-	-	-
Chloromethane (Methyl chloride)	µg/kg	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-
cis-1,3-Dichloropropene	µg/kg	-	-	-	-	-	-
Cyclohexane	µg/kg	-	-	-	-	-	-
Dibromochloromethane	µg/kg	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	µg/kg	-	-	-	-	-	-
Ethylbenzene	µg/kg	-	-	-	-	-	-
Isopropyl benzene	µg/kg	-	-	-	-	-	-
Methyl acetate	µg/kg	-	-	-	-	-	-
Methyl cyclohexane	µg/kg	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	µg/kg	-	-	-	-	-	-
Methylene chloride	µg/kg	-	-	-	-	-	-
Styrene	µg/kg	-	-	-	-	-	-
Tetrachloroethene	µg/kg	-	-	-	-	-	-
Toluene	µg/kg	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-
trans-1,3-Dichloropropene	µg/kg	-	-	-	-	-	-
Trichloroethene	µg/kg	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	µg/kg	-	-	-	-	-	-
Trifluorotrichloroethane (Freon 113)	µg/kg	-	-	-	-	-	-
Vinyl chloride	µg/kg	-	-	-	-	-	-
Xylenes (total)	µg/kg	-	-	-	-	-	-

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location	<i>SB256-13</i>	<i>SB256-13</i>	<i>SB256-13</i>	<i>SB256-13</i>	<i>SB256-13</i>	<i>SB256-13</i>	<i>SB256-13</i>
Sample Identification	<i>S SO-017360-081913-MR-002</i>	<i>SO-017360-081913-MR-003</i>	<i>SO-017360-081913-MR-004</i>	<i>SO-017360-081913-MR-005</i>	<i>SO-017360-081913-MR-009</i>	<i>SO-017360-081913-MR-006</i>	<i>SO-017360-081913-MR-007</i>
Sample Date	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>
Sample Depth	<i>(2-4) ft BGS</i>	<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(10-12) ft BGS</i>	<i>(12-14) ft BGS</i>
Sample Type					<i>Duplicate</i>		
<i>Metals</i>	<i>Units</i>						
Antimony	µg/kg	-	-	-	-	-	-
Arsenic	µg/kg	-	-	-	-	-	-
Barium	µg/kg	-	-	-	-	-	-
Beryllium	µg/kg	-	-	-	-	-	-
Cadmium	µg/kg	-	-	-	-	-	-
Chromium	µg/kg	-	-	-	-	-	-
Cobalt	µg/kg	-	-	-	-	-	-
Copper	µg/kg	-	-	-	-	-	-
Iron	µg/kg	-	-	-	-	-	-
Lead	µg/kg	-	-	-	-	-	-
Manganese	µg/kg	-	-	-	-	-	-
Mercury	µg/kg	-	-	-	-	-	-
Molybdenum	µg/kg	-	-	-	-	-	-
Nickel	µg/kg	-	-	-	-	-	-
Selenium	µg/kg	-	-	-	-	-	-
Silver	µg/kg	-	-	-	-	-	-
Thallium	µg/kg	-	-	-	-	-	-
Vanadium	µg/kg	-	-	-	-	-	-
Zinc	µg/kg	-	-	-	-	-	-
<i>Polychlorinated Biphenyls (PCBs)</i>							
Aroclor-1016 (PCB-1016)	µg/kg	340 U	330 U	320 U	340 U	330 U	340 U
Aroclor-1221 (PCB-1221)	µg/kg	340 U	330 U	320 U	340 U	330 U	340 U
Aroclor-1232 (PCB-1232)	µg/kg	340 U	330 U	320 U	340 U	330 U	340 U
Aroclor-1242 (PCB-1242)	µg/kg	340 U	330 U	320 U	340 U	330 U	340 U
Aroclor-1248 (PCB-1248)	µg/kg	340 U	330 U	320 U	340 U	330 U	340 U
Aroclor-1254 (PCB-1254)	µg/kg	340 U	330 U	320 U	340 U	330 U	340 U
Aroclor-1260 (PCB-1260)	µg/kg	340 U	330 U	320 U	340 U	330 U	340 U
Total PCBs	µg/kg	0	0	0	0	0	0

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB256-13	SB256-13	SB256-13	SB256-13	SB256-13	SB256-13	SB256-13
Sample Identification	S SO-017360-081913-MR-002	SO-017360-081913-MR-003	SO-017360-081913-MR-004	SO-017360-081913-MR-005	SO-017360-081913-MR-009	SO-017360-081913-MR-006	SO-017360-081913-MR-007
Sample Date	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013
Sample Depth	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(8-10) ft BGS	(10-12) ft BGS	(12-14) ft BGS
Sample Type					Duplicate		

Semi-Volatile Organic Compounds (SVOCs)

2,2'-Oxybis(1-chloropropane) ⁽⁵⁾	µg/kg	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrophenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2-Chloronaphthalene	µg/kg	-	-	-	-	-	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	-	-	-	-	-	-
2-Methylphenol	µg/kg	-	-	-	-	-	-
2-Nitroaniline	µg/kg	-	-	-	-	-	-
2-Nitrophenol	µg/kg	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-
3-Nitroaniline	µg/kg	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/kg	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/kg	-	-	-	-	-	-
4-Chloroaniline	µg/kg	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Methylphenol	µg/kg	-	-	-	-	-	-
4-Nitroaniline	µg/kg	-	-	-	-	-	-
4-Nitrophenol	µg/kg	-	-	-	-	-	-
Acenaphthene	µg/kg	-	-	-	-	-	-
Acenaphthylene	µg/kg	-	-	-	-	-	-
Acetophenone	µg/kg	-	-	-	-	-	-
Anthracene	µg/kg	-	-	-	-	-	-
Atrazine	µg/kg	-	-	-	-	-	-
Benzaldehyde	µg/kg	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	-	-	-	-	-	-
Benzo(a)pyrene	µg/kg	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/kg	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/kg	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	<i>SB256-13</i>	<i>SB256-13</i>	<i>SB256-13</i>	<i>SB256-13</i>	<i>SB256-13</i>	<i>SB256-13</i>	<i>SB256-13</i>
Sample Identification	<i>S SO-017360-081913-MR-002</i>	<i>SO-017360-081913-MR-003</i>	<i>SO-017360-081913-MR-004</i>	<i>SO-017360-081913-MR-005</i>	<i>SO-017360-081913-MR-009</i>	<i>SO-017360-081913-MR-006</i>	<i>SO-017360-081913-MR-007</i>
Sample Date	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>
Sample Depth	<i>(2-4) ft BGS</i>	<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(10-12) ft BGS</i>	<i>(12-14) ft BGS</i>
Sample Type					<i>Duplicate</i>		

SVOCs (continued)

bis(2-Chloroethyl)ether	µg/kg	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-
Caprolactam	µg/kg	-	-	-	-	-	-
Carbazole	µg/kg	-	-	-	-	-	-
Chrysene	µg/kg	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/kg	-	-	-	-	-	-
Dibenzofuran	µg/kg	-	-	-	-	-	-
Diethyl phthalate	µg/kg	-	-	-	-	-	-
Dimethyl phthalate	µg/kg	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-
Fluoranthene	µg/kg	-	-	-	-	-	-
Fluorene	µg/kg	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/kg	-	-	-	-	-	-
Hexachloroethane	µg/kg	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	-	-	-	-
Isophorone	µg/kg	-	-	-	-	-	-
Naphthalene	µg/kg	-	-	-	-	-	-
Nitrobenzene	µg/kg	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/kg	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-
Pentachlorophenol	µg/kg	-	-	-	-	-	-
Phenanthrene	µg/kg	-	-	-	-	-	-
Phenol	µg/kg	-	-	-	-	-	-
Pyrene	µg/kg	-	-	-	-	-	-

Volatile Organic Compounds (VOCs)

1,1,1-Trichloroethane	µg/kg	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	-	-	-	-	-	-
1,1-Dichloroethane	µg/kg	-	-	-	-	-	-
1,1-Dichloroethene	µg/kg	-	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB256-13	SB256-13	SB256-13	SB256-13	SB256-13	SB256-13	SB256-13
Sample Identification	S SO-017360-081913-MR-002	SO-017360-081913-MR-003	SO-017360-081913-MR-004	SO-017360-081913-MR-005	SO-017360-081913-MR-009	SO-017360-081913-MR-006	SO-017360-081913-MR-007
Sample Date	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013
Sample Depth	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(8-8) ft BGS	(10-12) ft BGS	(12-14) ft BGS
Sample Type					Duplicate		
VOCs (continued)							
1,2-Dibromoethane ⁽⁶⁾	µg/kg	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	-	-	-	-	-	-
1,2-Dichloroethane	µg/kg	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	-	-	-	-	-	-
2-Butanone ⁽⁷⁾	µg/kg	-	-	-	-	-	-
2-Hexanone	µg/kg	-	-	-	-	-	-
4-Methyl-2-pentanone ⁽⁸⁾	µg/kg	-	-	-	-	-	-
Acetone	µg/kg	-	-	-	-	-	-
Benzene	µg/kg	-	-	-	-	-	-
Bromodichloromethane	µg/kg	-	-	-	-	-	-
Bromoform	µg/kg	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/kg	-	-	-	-	-	-
Carbon disulfide	µg/kg	-	-	-	-	-	-
Carbon tetrachloride	µg/kg	-	-	-	-	-	-
Chlorobenzene	µg/kg	-	-	-	-	-	-
Chloroethane	µg/kg	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg	-	-	-	-	-	-
Chloromethane (Methyl chloride)	µg/kg	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-
cis-1,3-Dichloropropene	µg/kg	-	-	-	-	-	-
Cyclohexane	µg/kg	-	-	-	-	-	-
Dibromochloromethane	µg/kg	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	µg/kg	-	-	-	-	-	-
Ethylbenzene	µg/kg	-	-	-	-	-	-
Isopropyl benzene	µg/kg	-	-	-	-	-	-
Methyl acetate	µg/kg	-	-	-	-	-	-
Methyl cyclohexane	µg/kg	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	µg/kg	-	-	-	-	-	-
Methylene chloride	µg/kg	-	-	-	-	-	-
Styrene	µg/kg	-	-	-	-	-	-
Tetrachloroethene	µg/kg	-	-	-	-	-	-
Toluene	µg/kg	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-
trans-1,3-Dichloropropene	µg/kg	-	-	-	-	-	-
Trichloroethene	µg/kg	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	µg/kg	-	-	-	-	-	-
Trifluorotrchloroethane (Freon 113)	µg/kg	-	-	-	-	-	-
Vinyl chloride	µg/kg	-	-	-	-	-	-
Xylenes (total)	µg/kg	-	-	-	-	-	-

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location	SB256-13	SB257-13	SB257-13	SB257-13	SB257-13	SB257-13	SB257-13
Sample Identification	S SO-017360-081913-MR-008	SO-017360-081913-MR-058	SO-017360-081913-MR-059	SO-017360-081913-MR-060	SO-017360-081913-MR-061	SO-017360-081913-MR-062	SO-017360-081913-MR-064
Sample Date	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013
Sample Depth	(14-16) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Sample Type					Duplicate		
Metals							
	Units						
Antimony	µg/kg	-	-	-	-	-	-
Arsenic	µg/kg	-	-	-	-	-	-
Barium	µg/kg	-	-	-	-	-	-
Beryllium	µg/kg	-	-	-	-	-	-
Cadmium	µg/kg	-	-	-	-	-	-
Chromium	µg/kg	-	-	-	-	-	-
Cobalt	µg/kg	-	-	-	-	-	-
Copper	µg/kg	-	-	-	-	-	-
Iron	µg/kg	-	-	-	-	-	-
Lead	µg/kg	-	-	-	-	-	-
Manganese	µg/kg	-	-	-	-	-	-
Mercury	µg/kg	-	-	-	-	-	-
Molybdenum	µg/kg	-	-	-	-	-	-
Nickel	µg/kg	-	-	-	-	-	-
Selenium	µg/kg	-	-	-	-	-	-
Silver	µg/kg	-	-	-	-	-	-
Thallium	µg/kg	-	-	-	-	-	-
Vanadium	µg/kg	-	-	-	-	-	-
Zinc	µg/kg	-	-	-	-	-	-
Polychlorinated Biphenyls (PCBs)							
Aroclor-1016 (PCB-1016)	µg/kg	340 U	330 U	330 U	340 U	330 U	320 U
Aroclor-1221 (PCB-1221)	µg/kg	340 U	330 U	330 U	340 U	330 U	320 U
Aroclor-1232 (PCB-1232)	µg/kg	340 U	330 U	330 U	340 U	330 U	320 U
Aroclor-1242 (PCB-1242)	µg/kg	340 U	330 U	330 U	340 U	330 U	320 U
Aroclor-1248 (PCB-1248)	µg/kg	340 U	330 U	330 U	340 U	330 U	320 U
Aroclor-1254 (PCB-1254)	µg/kg	340 U	330 U	330 U	340 U	330 U	320 U
Aroclor-1260 (PCB-1260)	µg/kg	340 U	330 U	330 U	340 U	330 U	320 U
Total PCBs	µg/kg	0	0	0	0	0	0

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB256-13	SB257-13	SB257-13	SB257-13	SB257-13	SB257-13	SB257-13
Sample Identification	S SO-017360-081913-MR-008	SO-017360-081913-MR-058	SO-017360-081913-MR-059	SO-017360-081913-MR-060	SO-017360-081913-MR-061	SO-017360-081913-MR-062	SO-017360-081913-MR-064
Sample Date	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013
Sample Depth	(14-16) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Sample Type					Duplicate		

Semi-Volatile Organic Compounds (SVOCs)

2,2'-Oxybis(1-chloropropane) ⁽⁵⁾	µg/kg	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrophenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2-Chloronaphthalene	µg/kg	-	-	-	-	-	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	-	-	-	-	-	-
2-Methylphenol	µg/kg	-	-	-	-	-	-
2-Nitroaniline	µg/kg	-	-	-	-	-	-
2-Nitrophenol	µg/kg	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-
3-Nitroaniline	µg/kg	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/kg	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/kg	-	-	-	-	-	-
4-Chloroaniline	µg/kg	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Methylphenol	µg/kg	-	-	-	-	-	-
4-Nitroaniline	µg/kg	-	-	-	-	-	-
4-Nitrophenol	µg/kg	-	-	-	-	-	-
Acenaphthene	µg/kg	-	-	-	-	-	-
Acenaphthylene	µg/kg	-	-	-	-	-	-
Acetophenone	µg/kg	-	-	-	-	-	-
Anthracene	µg/kg	-	-	-	-	-	-
Atrazine	µg/kg	-	-	-	-	-	-
Benzaldehyde	µg/kg	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	-	-	-	-	-	-
Benzo(a)pyrene	µg/kg	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/kg	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/kg	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB256-13	SB257-13	SB257-13	SB257-13	SB257-13	SB257-13	SB257-13
Sample Identification	S SO-017360-081913-MR-008	SO-017360-081913-MR-058	SO-017360-081913-MR-059	SO-017360-081913-MR-060	SO-017360-081913-MR-061	SO-017360-081913-MR-062	SO-017360-081913-MR-064
Sample Date	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013
Sample Depth	(14-16) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Sample Type					Duplicate		

SVOCs (continued)

bis(2-Chloroethyl)ether	µg/kg	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-
Caprolactam	µg/kg	-	-	-	-	-	-
Carbazole	µg/kg	-	-	-	-	-	-
Chrysene	µg/kg	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/kg	-	-	-	-	-	-
Dibenzofuran	µg/kg	-	-	-	-	-	-
Diethyl phthalate	µg/kg	-	-	-	-	-	-
Dimethyl phthalate	µg/kg	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-
Fluoranthene	µg/kg	-	-	-	-	-	-
Fluorene	µg/kg	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/kg	-	-	-	-	-	-
Hexachloroethane	µg/kg	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	-	-	-	-
Isophorone	µg/kg	-	-	-	-	-	-
Naphthalene	µg/kg	-	-	-	-	-	-
Nitrobenzene	µg/kg	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/kg	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-
Pentachlorophenol	µg/kg	-	-	-	-	-	-
Phenanthrene	µg/kg	-	-	-	-	-	-
Phenol	µg/kg	-	-	-	-	-	-
Pyrene	µg/kg	-	-	-	-	-	-

Volatile Organic Compounds (VOCs)

1,1,1-Trichloroethane	µg/kg	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	-	-	-	-	-	-
1,1-Dichloroethane	µg/kg	-	-	-	-	-	-
1,1-Dichloroethene	µg/kg	-	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB256-13	SB257-13	SB257-13	SB257-13	SB257-13	SB257-13	SB257-13
Sample Identification	S SO-017360-081913-MR-008	SO-017360-081913-MR-058	SO-017360-081913-MR-059	SO-017360-081913-MR-060	SO-017360-081913-MR-061	SO-017360-081913-MR-062	SO-017360-081913-MR-064
Sample Date	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013
Sample Depth	(14-16) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Sample Type					Duplicate		
VOCs (continued)							
1,2-Dibromoethane ⁽⁶⁾	µg/kg	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	-	-	-	-	-	-
1,2-Dichloroethane	µg/kg	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	-	-	-	-	-	-
2-Butanone ⁽⁷⁾	µg/kg	-	-	-	-	-	-
2-Hexanone	µg/kg	-	-	-	-	-	-
4-Methyl-2-pentanone ⁽⁸⁾	µg/kg	-	-	-	-	-	-
Acetone	µg/kg	-	-	-	-	-	-
Benzene	µg/kg	-	-	-	-	-	-
Bromodichloromethane	µg/kg	-	-	-	-	-	-
Bromoform	µg/kg	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/kg	-	-	-	-	-	-
Carbon disulfide	µg/kg	-	-	-	-	-	-
Carbon tetrachloride	µg/kg	-	-	-	-	-	-
Chlorobenzene	µg/kg	-	-	-	-	-	-
Chloroethane	µg/kg	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg	-	-	-	-	-	-
Chloromethane (Methyl chloride)	µg/kg	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-
cis-1,3-Dichloropropene	µg/kg	-	-	-	-	-	-
Cyclohexane	µg/kg	-	-	-	-	-	-
Dibromochloromethane	µg/kg	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	µg/kg	-	-	-	-	-	-
Ethylbenzene	µg/kg	-	-	-	-	-	-
Isopropyl benzene	µg/kg	-	-	-	-	-	-
Methyl acetate	µg/kg	-	-	-	-	-	-
Methyl cyclohexane	µg/kg	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	µg/kg	-	-	-	-	-	-
Methylene chloride	µg/kg	-	-	-	-	-	-
Styrene	µg/kg	-	-	-	-	-	-
Tetrachloroethene	µg/kg	-	-	-	-	-	-
Toluene	µg/kg	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-
trans-1,3-Dichloropropene	µg/kg	-	-	-	-	-	-
Trichloroethene	µg/kg	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	µg/kg	-	-	-	-	-	-
Trifluorotrichloroethane (Freon 113)	µg/kg	-	-	-	-	-	-
Vinyl chloride	µg/kg	-	-	-	-	-	-
Xylenes (total)	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB257-13	SB257-13	SB258-13	SB258-13	SB258-13	SB258-13	SB258-13
Sample Identification	S SO-017360-081913-MR-065	SO-017360-081913-MR-066	SO-017360-081913-MR-051	SO-017360-081913-MR-052	SO-017360-081913-MR-053	SO-017360-081913-MR-054	SO-017360-081913-MR-055
Sample Date	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013
Sample Depth	(10-12) ft BGS	(12-14) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Sample Type							
Metals							
	Units						
Antimony	µg/kg	-	-	-	-	-	-
Arsenic	µg/kg	-	-	-	-	-	-
Barium	µg/kg	-	-	-	-	-	-
Beryllium	µg/kg	-	-	-	-	-	-
Cadmium	µg/kg	-	-	-	-	-	-
Chromium	µg/kg	-	-	-	-	-	-
Cobalt	µg/kg	-	-	-	-	-	-
Copper	µg/kg	-	-	-	-	-	-
Iron	µg/kg	-	-	-	-	-	-
Lead	µg/kg	-	-	-	-	-	-
Manganese	µg/kg	-	-	-	-	-	-
Mercury	µg/kg	-	-	-	-	-	-
Molybdenum	µg/kg	-	-	-	-	-	-
Nickel	µg/kg	-	-	-	-	-	-
Selenium	µg/kg	-	-	-	-	-	-
Silver	µg/kg	-	-	-	-	-	-
Thallium	µg/kg	-	-	-	-	-	-
Vanadium	µg/kg	-	-	-	-	-	-
Zinc	µg/kg	-	-	-	-	-	-
Polychlorinated Biphenyls (PCBs)							
Aroclor-1016 (PCB-1016)	µg/kg	330 U	330 U	330 U	320 U	330 U	320 U
Aroclor-1221 (PCB-1221)	µg/kg	330 U	330 U	330 U	320 U	330 U	320 U
Aroclor-1232 (PCB-1232)	µg/kg	330 U	330 U	330 U	320 U	330 U	320 U
Aroclor-1242 (PCB-1242)	µg/kg	330 U	330 U	330 U	320 U	330 U	320 U
Aroclor-1248 (PCB-1248)	µg/kg	330 U	330 U	330 U	320 U	330 U	320 U
Aroclor-1254 (PCB-1254)	µg/kg	330 U	330 U	330 U	320 U	330 U	320 U
Aroclor-1260 (PCB-1260)	µg/kg	330 U	330 U	62 J	320 U	38 J	320 U
Total PCBs	µg/kg	0	0	62 J	0	38 J	0

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB257-13	SB257-13	SB258-13	SB258-13	SB258-13	SB258-13	SB258-13
Sample Identification	S SO-017360-081913-MR-065	SO-017360-081913-MR-066	SO-017360-081913-MR-051	SO-017360-081913-MR-052	SO-017360-081913-MR-053	SO-017360-081913-MR-054	SO-017360-081913-MR-055
Sample Date	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013
Sample Depth	(10-12) ft BGS	(12-14) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Sample Type							

Semi-Volatile Organic Compounds (SVOCs)

2,2'-Oxybis(1-chloropropane) ⁽⁵⁾	µg/kg	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrophenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2-Chloronaphthalene	µg/kg	-	-	-	-	-	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	-	-	-	-	-	-
2-Methylphenol	µg/kg	-	-	-	-	-	-
2-Nitroaniline	µg/kg	-	-	-	-	-	-
2-Nitrophenol	µg/kg	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-
3-Nitroaniline	µg/kg	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/kg	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/kg	-	-	-	-	-	-
4-Chloroaniline	µg/kg	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Methylphenol	µg/kg	-	-	-	-	-	-
4-Nitroaniline	µg/kg	-	-	-	-	-	-
4-Nitrophenol	µg/kg	-	-	-	-	-	-
Acenaphthene	µg/kg	-	-	-	-	-	-
Acenaphthylene	µg/kg	-	-	-	-	-	-
Acetophenone	µg/kg	-	-	-	-	-	-
Anthracene	µg/kg	-	-	-	-	-	-
Atrazine	µg/kg	-	-	-	-	-	-
Benzaldehyde	µg/kg	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	-	-	-	-	-	-
Benzo(a)pyrene	µg/kg	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/kg	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/kg	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	<i>SB257-13</i>	<i>SB257-13</i>	<i>SB258-13</i>	<i>SB258-13</i>	<i>SB258-13</i>	<i>SB258-13</i>	<i>SB258-13</i>
Sample Identification	<i>S SO-017360-081913-MR-065</i>	<i>SO-017360-081913-MR-066</i>	<i>SO-017360-081913-MR-051</i>	<i>SO-017360-081913-MR-052</i>	<i>SO-017360-081913-MR-053</i>	<i>SO-017360-081913-MR-054</i>	<i>SO-017360-081913-MR-055</i>
Sample Date	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>
Sample Depth	<i>(10-12) ft BGS</i>	<i>(12-14) ft BGS</i>	<i>(0-2) ft BGS</i>	<i>(2-4) ft BGS</i>	<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>
Sample Type							

SVOCs (continued)

bis(2-Chloroethyl)ether	µg/kg	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-
Caprolactam	µg/kg	-	-	-	-	-	-
Carbazole	µg/kg	-	-	-	-	-	-
Chrysene	µg/kg	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/kg	-	-	-	-	-	-
Dibenzofuran	µg/kg	-	-	-	-	-	-
Diethyl phthalate	µg/kg	-	-	-	-	-	-
Dimethyl phthalate	µg/kg	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-
Fluoranthene	µg/kg	-	-	-	-	-	-
Fluorene	µg/kg	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/kg	-	-	-	-	-	-
Hexachloroethane	µg/kg	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	-	-	-	-
Isophorone	µg/kg	-	-	-	-	-	-
Naphthalene	µg/kg	-	-	-	-	-	-
Nitrobenzene	µg/kg	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/kg	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-
Pentachlorophenol	µg/kg	-	-	-	-	-	-
Phenanthrene	µg/kg	-	-	-	-	-	-
Phenol	µg/kg	-	-	-	-	-	-
Pyrene	µg/kg	-	-	-	-	-	-

Volatile Organic Compounds (VOCs)

1,1,1-Trichloroethane	µg/kg	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	-	-	-	-	-	-
1,1-Dichloroethane	µg/kg	-	-	-	-	-	-
1,1-Dichloroethene	µg/kg	-	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB257-13	SB257-13	SB258-13	SB258-13	SB258-13	SB258-13	SB258-13
Sample Identification	S SO-017360-081913-MR-065	SO-017360-081913-MR-066	SO-017360-081913-MR-051	SO-017360-081913-MR-052	SO-017360-081913-MR-053	SO-017360-081913-MR-054	SO-017360-081913-MR-055
Sample Date	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013
Sample Depth	(10-12) ft BGS	(12-14) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Sample Type							
VOCs (continued)							
1,2-Dibromoethane ⁽⁶⁾	µg/kg	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	-	-	-	-	-	-
1,2-Dichloroethane	µg/kg	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	-	-	-	-	-	-
2-Butanone ⁽⁷⁾	µg/kg	-	-	-	-	-	-
2-Hexanone	µg/kg	-	-	-	-	-	-
4-Methyl-2-pentanone ⁽⁸⁾	µg/kg	-	-	-	-	-	-
Acetone	µg/kg	-	-	-	-	-	-
Benzene	µg/kg	-	-	-	-	-	-
Bromodichloromethane	µg/kg	-	-	-	-	-	-
Bromoform	µg/kg	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/kg	-	-	-	-	-	-
Carbon disulfide	µg/kg	-	-	-	-	-	-
Carbon tetrachloride	µg/kg	-	-	-	-	-	-
Chlorobenzene	µg/kg	-	-	-	-	-	-
Chloroethane	µg/kg	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg	-	-	-	-	-	-
Chloromethane (Methyl chloride)	µg/kg	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-
cis-1,3-Dichloropropene	µg/kg	-	-	-	-	-	-
Cyclohexane	µg/kg	-	-	-	-	-	-
Dibromochloromethane	µg/kg	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	µg/kg	-	-	-	-	-	-
Ethylbenzene	µg/kg	-	-	-	-	-	-
Isopropyl benzene	µg/kg	-	-	-	-	-	-
Methyl acetate	µg/kg	-	-	-	-	-	-
Methyl cyclohexane	µg/kg	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	µg/kg	-	-	-	-	-	-
Methylene chloride	µg/kg	-	-	-	-	-	-
Styrene	µg/kg	-	-	-	-	-	-
Tetrachloroethene	µg/kg	-	-	-	-	-	-
Toluene	µg/kg	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-
trans-1,3-Dichloropropene	µg/kg	-	-	-	-	-	-
Trichloroethene	µg/kg	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	µg/kg	-	-	-	-	-	-
Trifluorotrichloroethane (Freon 113)	µg/kg	-	-	-	-	-	-
Vinyl chloride	µg/kg	-	-	-	-	-	-
Xylenes (total)	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB258-13	SB258-13	SB259-13	SB259-13	SB259-13	SB259-13	SB259-13
Sample Identification	S SO-017360-081913-MR-056	SO-017360-081913-MR-057	SO-017360-081913-MR-034	SO-017360-081913-MR-035	SO-017360-081913-MR-036	SO-017360-081913-MR-037	SO-017360-081913-MR-038
Sample Date	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013
Sample Depth	(8-10) ft BGS	(10-12) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS
Sample Type	Duplicate				Duplicate		
Metals							
	Units						
Antimony	µg/kg	-	-	-	-	-	-
Arsenic	µg/kg	-	-	-	-	-	-
Barium	µg/kg	-	-	-	-	-	-
Beryllium	µg/kg	-	-	-	-	-	-
Cadmium	µg/kg	-	-	-	-	-	-
Chromium	µg/kg	-	-	-	-	-	-
Cobalt	µg/kg	-	-	-	-	-	-
Copper	µg/kg	-	-	-	-	-	-
Iron	µg/kg	-	-	-	-	-	-
Lead	µg/kg	-	-	-	-	-	-
Manganese	µg/kg	-	-	-	-	-	-
Mercury	µg/kg	-	-	-	-	-	-
Molybdenum	µg/kg	-	-	-	-	-	-
Nickel	µg/kg	-	-	-	-	-	-
Selenium	µg/kg	-	-	-	-	-	-
Silver	µg/kg	-	-	-	-	-	-
Thallium	µg/kg	-	-	-	-	-	-
Vanadium	µg/kg	-	-	-	-	-	-
Zinc	µg/kg	-	-	-	-	-	-
Polychlorinated Biphenyls (PCBs)							
Aroclor-1016 (PCB-1016)	µg/kg	330 U	350 U	330 U	330 U	330 U	330 U
Aroclor-1221 (PCB-1221)	µg/kg	330 U	350 U	330 U	330 U	330 U	330 U
Aroclor-1232 (PCB-1232)	µg/kg	330 U	350 U	330 U	330 U	330 U	330 U
Aroclor-1242 (PCB-1242)	µg/kg	330 U	350 U	330 U	330 U	330 U	330 U
Aroclor-1248 (PCB-1248)	µg/kg	330 U	350 U	330 U	330 U	330 U	330 U
Aroclor-1254 (PCB-1254)	µg/kg	330 U	350 U	330 U	330 U	330 U	330 U
Aroclor-1260 (PCB-1260)	µg/kg	330 U	350 U	330 U	330 U	330 U	330 U
Total PCBs	µg/kg	0	0	0	0	0	0

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB258-13	SB258-13	SB259-13	SB259-13	SB259-13	SB259-13	SB259-13
Sample Identification	S SO-017360-081913-MR-056	SO-017360-081913-MR-057	SO-017360-081913-MR-034	SO-017360-081913-MR-035	SO-017360-081913-MR-036	SO-017360-081913-MR-037	SO-017360-081913-MR-038
Sample Date	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013
Sample Depth	(8-10) ft BGS	(10-12) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS
Sample Type	Duplicate				Duplicate		
Semi-Volatile Organic Compounds (SVOCs)							
2,2'-Oxybis(1-chloropropane) ⁽⁵⁾	µg/kg	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrophenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2-Chloronaphthalene	µg/kg	-	-	-	-	-	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	-	-	-	-	-	-
2-Methylphenol	µg/kg	-	-	-	-	-	-
2-Nitroaniline	µg/kg	-	-	-	-	-	-
2-Nitrophenol	µg/kg	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-
3-Nitroaniline	µg/kg	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/kg	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/kg	-	-	-	-	-	-
4-Chloroaniline	µg/kg	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Methylphenol	µg/kg	-	-	-	-	-	-
4-Nitroaniline	µg/kg	-	-	-	-	-	-
4-Nitrophenol	µg/kg	-	-	-	-	-	-
Acenaphthene	µg/kg	-	-	-	-	-	-
Acenaphthylene	µg/kg	-	-	-	-	-	-
Acetophenone	µg/kg	-	-	-	-	-	-
Anthracene	µg/kg	-	-	-	-	-	-
Atrazine	µg/kg	-	-	-	-	-	-
Benzaldehyde	µg/kg	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	-	-	-	-	-	-
Benzo(a)pyrene	µg/kg	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/kg	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/kg	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	<i>SB258-13</i>	<i>SB258-13</i>	<i>SB259-13</i>	<i>SB259-13</i>	<i>SB259-13</i>	<i>SB259-13</i>	<i>SB259-13</i>
Sample Identification	<i>S SO-017360-081913-MR-056</i>	<i>SO-017360-081913-MR-057</i>	<i>SO-017360-081913-MR-034</i>	<i>SO-017360-081913-MR-035</i>	<i>SO-017360-081913-MR-036</i>	<i>SO-017360-081913-MR-037</i>	<i>SO-017360-081913-MR-038</i>
Sample Date	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>
Sample Depth	<i>(8-10) ft BGS</i>	<i>(10-12) ft BGS</i>	<i>(0-2) ft BGS</i>	<i>(2-4) ft BGS</i>	<i>(2-4) ft BGS</i>	<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>
Sample Type	<i>Duplicate</i>				<i>Duplicate</i>		

SVOCs (continued)

bis(2-Chloroethyl)ether	µg/kg	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-
Caprolactam	µg/kg	-	-	-	-	-	-
Carbazole	µg/kg	-	-	-	-	-	-
Chrysene	µg/kg	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/kg	-	-	-	-	-	-
Dibenzofuran	µg/kg	-	-	-	-	-	-
Diethyl phthalate	µg/kg	-	-	-	-	-	-
Dimethyl phthalate	µg/kg	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-
Fluoranthene	µg/kg	-	-	-	-	-	-
Fluorene	µg/kg	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/kg	-	-	-	-	-	-
Hexachloroethane	µg/kg	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	-	-	-	-
Isophorone	µg/kg	-	-	-	-	-	-
Naphthalene	µg/kg	-	-	-	-	-	-
Nitrobenzene	µg/kg	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/kg	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-
Pentachlorophenol	µg/kg	-	-	-	-	-	-
Phenanthrene	µg/kg	-	-	-	-	-	-
Phenol	µg/kg	-	-	-	-	-	-
Pyrene	µg/kg	-	-	-	-	-	-

Volatile Organic Compounds (VOCs)

1,1,1-Trichloroethane	µg/kg	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	-	-	-	-	-	-
1,1-Dichloroethane	µg/kg	-	-	-	-	-	-
1,1-Dichloroethene	µg/kg	-	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB258-13	SB258-13	SB259-13	SB259-13	SB259-13	SB259-13	SB259-13
Sample Identification	S SO-017360-081913-MR-056	SO-017360-081913-MR-057	SO-017360-081913-MR-034	SO-017360-081913-MR-035	SO-017360-081913-MR-036	SO-017360-081913-MR-037	SO-017360-081913-MR-038
Sample Date	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013
Sample Depth	(8-10) ft BGS	(10-12) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS
Sample Type	Duplicate				Duplicate		
VOCs (continued)							
1,2-Dibromoethane ⁽⁶⁾	µg/kg	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	-	-	-	-	-	-
1,2-Dichloroethane	µg/kg	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	-	-	-	-	-	-
2-Butanone ⁽⁷⁾	µg/kg	-	-	-	-	-	-
2-Hexanone	µg/kg	-	-	-	-	-	-
4-Methyl-2-pentanone ⁽⁸⁾	µg/kg	-	-	-	-	-	-
Acetone	µg/kg	-	-	-	-	-	-
Benzene	µg/kg	-	-	-	-	-	-
Bromodichloromethane	µg/kg	-	-	-	-	-	-
Bromoform	µg/kg	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/kg	-	-	-	-	-	-
Carbon disulfide	µg/kg	-	-	-	-	-	-
Carbon tetrachloride	µg/kg	-	-	-	-	-	-
Chlorobenzene	µg/kg	-	-	-	-	-	-
Chloroethane	µg/kg	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg	-	-	-	-	-	-
Chloromethane (Methyl chloride)	µg/kg	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-
cis-1,3-Dichloropropene	µg/kg	-	-	-	-	-	-
Cyclohexane	µg/kg	-	-	-	-	-	-
Dibromochloromethane	µg/kg	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	µg/kg	-	-	-	-	-	-
Ethylbenzene	µg/kg	-	-	-	-	-	-
Isopropyl benzene	µg/kg	-	-	-	-	-	-
Methyl acetate	µg/kg	-	-	-	-	-	-
Methyl cyclohexane	µg/kg	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	µg/kg	-	-	-	-	-	-
Methylene chloride	µg/kg	-	-	-	-	-	-
Styrene	µg/kg	-	-	-	-	-	-
Tetrachloroethene	µg/kg	-	-	-	-	-	-
Toluene	µg/kg	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-
trans-1,3-Dichloropropene	µg/kg	-	-	-	-	-	-
Trichloroethene	µg/kg	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	µg/kg	-	-	-	-	-	-
Trifluorotrichloroethane (Freon 113)	µg/kg	-	-	-	-	-	-
Vinyl chloride	µg/kg	-	-	-	-	-	-
Xylenes (total)	µg/kg	-	-	-	-	-	-

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location	<i>SB259-13</i>	<i>SB259-13</i>	<i>SB259-13</i>	<i>SB260-13</i>	<i>SB260-13</i>	<i>SB260-13</i>	<i>SB260-13</i>
Sample Identification	<i>S SO-017360-081913-MR-039</i>	<i>SO-017360-081913-MR-040</i>	<i>SO-017360-081913-MR-041</i>	<i>SO-017360-081913-MR-042</i>	<i>SO-017360-081913-MR-043</i>	<i>SO-017360-081913-MR-045</i>	<i>SO-017360-081913-MR-046</i>
Sample Date	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>
Sample Depth	<i>(8-10) ft BGS</i>	<i>(10-12) ft BGS</i>	<i>(12-14) ft BGS</i>	<i>(0-2) ft BGS</i>	<i>(2-4) ft BGS</i>	<i>(4-6) ft BGS</i>	<i>(4-6) ft BGS</i>
Sample Type							<i>Duplicate</i>
<i>Metals</i>	<i>Units</i>						
Antimony	µg/kg	-	-	-	-	-	-
Arsenic	µg/kg	-	-	-	-	-	-
Barium	µg/kg	-	-	-	-	-	-
Beryllium	µg/kg	-	-	-	-	-	-
Cadmium	µg/kg	-	-	-	-	-	-
Chromium	µg/kg	-	-	-	-	-	-
Cobalt	µg/kg	-	-	-	-	-	-
Copper	µg/kg	-	-	-	-	-	-
Iron	µg/kg	-	-	-	-	-	-
Lead	µg/kg	-	-	-	-	-	-
Manganese	µg/kg	-	-	-	-	-	-
Mercury	µg/kg	-	-	-	-	-	-
Molybdenum	µg/kg	-	-	-	-	-	-
Nickel	µg/kg	-	-	-	-	-	-
Selenium	µg/kg	-	-	-	-	-	-
Silver	µg/kg	-	-	-	-	-	-
Thallium	µg/kg	-	-	-	-	-	-
Vanadium	µg/kg	-	-	-	-	-	-
Zinc	µg/kg	-	-	-	-	-	-
<i>Polychlorinated Biphenyls (PCBs)</i>							
Aroclor-1016 (PCB-1016)	µg/kg	320 U	320 U	330 U	330 U	330 U	370 U
Aroclor-1221 (PCB-1221)	µg/kg	320 U	320 U	330 U	330 U	330 U	370 U
Aroclor-1232 (PCB-1232)	µg/kg	320 U	320 U	330 U	330 U	330 U	370 U
Aroclor-1242 (PCB-1242)	µg/kg	320 U	320 U	330 U	330 U	330 U	370 U
Aroclor-1248 (PCB-1248)	µg/kg	320 U	320 U	330 U	330 U	330 U	370 U
Aroclor-1254 (PCB-1254)	µg/kg	320 U	320 U	330 U	330 U	330 U	370 U
Aroclor-1260 (PCB-1260)	µg/kg	320 U	320 U	330 U	330 U	330 U	370 U
Total PCBs	µg/kg	0	0	0	0	0	0

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB259-13	SB259-13	SB259-13	SB260-13	SB260-13	SB260-13	SB260-13
Sample Identification	S SO-017360-081913-MR-039	SO-017360-081913-MR-040	SO-017360-081913-MR-041	SO-017360-081913-MR-042	SO-017360-081913-MR-043	SO-017360-081913-MR-045	SO-017360-081913-MR-046
Sample Date	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013
Sample Depth	(8-10) ft BGS	(10-12) ft BGS	(12-14) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(4-6) ft BGS
Sample Type							Duplicate

Semi-Volatile Organic Compounds (SVOCs)

2,2'-Oxybis(1-chloropropane) ⁽⁵⁾	µg/kg	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrophenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2-Chloronaphthalene	µg/kg	-	-	-	-	-	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	-	-	-	-	-	-
2-Methylphenol	µg/kg	-	-	-	-	-	-
2-Nitroaniline	µg/kg	-	-	-	-	-	-
2-Nitrophenol	µg/kg	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-
3-Nitroaniline	µg/kg	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/kg	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/kg	-	-	-	-	-	-
4-Chloroaniline	µg/kg	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Methylphenol	µg/kg	-	-	-	-	-	-
4-Nitroaniline	µg/kg	-	-	-	-	-	-
4-Nitrophenol	µg/kg	-	-	-	-	-	-
Acenaphthene	µg/kg	-	-	-	-	-	-
Acenaphthylene	µg/kg	-	-	-	-	-	-
Acetophenone	µg/kg	-	-	-	-	-	-
Anthracene	µg/kg	-	-	-	-	-	-
Atrazine	µg/kg	-	-	-	-	-	-
Benzaldehyde	µg/kg	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	-	-	-	-	-	-
Benzo(a)pyrene	µg/kg	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/kg	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/kg	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	<i>SB259-13</i>	<i>SB259-13</i>	<i>SB259-13</i>	<i>SB260-13</i>	<i>SB260-13</i>	<i>SB260-13</i>	<i>SB260-13</i>
Sample Identification	<i>S SO-017360-081913-MR-039</i>	<i>SO-017360-081913-MR-040</i>	<i>SO-017360-081913-MR-041</i>	<i>SO-017360-081913-MR-042</i>	<i>SO-017360-081913-MR-043</i>	<i>SO-017360-081913-MR-045</i>	<i>SO-017360-081913-MR-046</i>
Sample Date	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>
Sample Depth	<i>(8-10) ft BGS</i>	<i>(10-12) ft BGS</i>	<i>(12-14) ft BGS</i>	<i>(0-2) ft BGS</i>	<i>(2-4) ft BGS</i>	<i>(4-6) ft BGS</i>	<i>(4-6) ft BGS</i>
Sample Type							<i>Duplicate</i>

SVOCs (continued)

bis(2-Chloroethyl)ether	µg/kg	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-
Caprolactam	µg/kg	-	-	-	-	-	-
Carbazole	µg/kg	-	-	-	-	-	-
Chrysene	µg/kg	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/kg	-	-	-	-	-	-
Dibenzofuran	µg/kg	-	-	-	-	-	-
Diethyl phthalate	µg/kg	-	-	-	-	-	-
Dimethyl phthalate	µg/kg	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-
Fluoranthene	µg/kg	-	-	-	-	-	-
Fluorene	µg/kg	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/kg	-	-	-	-	-	-
Hexachloroethane	µg/kg	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	-	-	-	-
Isophorone	µg/kg	-	-	-	-	-	-
Naphthalene	µg/kg	-	-	-	-	-	-
Nitrobenzene	µg/kg	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/kg	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-
Pentachlorophenol	µg/kg	-	-	-	-	-	-
Phenanthrene	µg/kg	-	-	-	-	-	-
Phenol	µg/kg	-	-	-	-	-	-
Pyrene	µg/kg	-	-	-	-	-	-

Volatile Organic Compounds (VOCs)

1,1,1-Trichloroethane	µg/kg	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	-	-	-	-	-	-
1,1-Dichloroethane	µg/kg	-	-	-	-	-	-
1,1-Dichloroethene	µg/kg	-	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB259-13	SB259-13	SB259-13	SB260-13	SB260-13	SB260-13	SB260-13
Sample Identification	S SO-017360-081913-MR-039	SO-017360-081913-MR-040	SO-017360-081913-MR-041	SO-017360-081913-MR-042	SO-017360-081913-MR-043	SO-017360-081913-MR-045	SO-017360-081913-MR-046
Sample Date	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013
Sample Depth	(8-10) ft BGS	(10-12) ft BGS	(12-14) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(4-6) ft BGS
Sample Type							Duplicate
VOCs (continued)							
1,2-Dibromoethane ⁽⁶⁾	µg/kg	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	-	-	-	-	-	-
1,2-Dichloroethane	µg/kg	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	-	-	-	-	-	-
2-Butanone ⁽⁷⁾	µg/kg	-	-	-	-	-	-
2-Hexanone	µg/kg	-	-	-	-	-	-
4-Methyl-2-pentanone ⁽⁸⁾	µg/kg	-	-	-	-	-	-
Acetone	µg/kg	-	-	-	-	-	-
Benzene	µg/kg	-	-	-	-	-	-
Bromodichloromethane	µg/kg	-	-	-	-	-	-
Bromoform	µg/kg	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/kg	-	-	-	-	-	-
Carbon disulfide	µg/kg	-	-	-	-	-	-
Carbon tetrachloride	µg/kg	-	-	-	-	-	-
Chlorobenzene	µg/kg	-	-	-	-	-	-
Chloroethane	µg/kg	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg	-	-	-	-	-	-
Chloromethane (Methyl chloride)	µg/kg	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-
cis-1,3-Dichloropropene	µg/kg	-	-	-	-	-	-
Cyclohexane	µg/kg	-	-	-	-	-	-
Dibromochloromethane	µg/kg	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	µg/kg	-	-	-	-	-	-
Ethylbenzene	µg/kg	-	-	-	-	-	-
Isopropyl benzene	µg/kg	-	-	-	-	-	-
Methyl acetate	µg/kg	-	-	-	-	-	-
Methyl cyclohexane	µg/kg	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	µg/kg	-	-	-	-	-	-
Methylene chloride	µg/kg	-	-	-	-	-	-
Styrene	µg/kg	-	-	-	-	-	-
Tetrachloroethene	µg/kg	-	-	-	-	-	-
Toluene	µg/kg	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-
trans-1,3-Dichloropropene	µg/kg	-	-	-	-	-	-
Trichloroethene	µg/kg	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	µg/kg	-	-	-	-	-	-
Trifluorotrichloroethane (Freon 113)	µg/kg	-	-	-	-	-	-
Vinyl chloride	µg/kg	-	-	-	-	-	-
Xylenes (total)	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB260-13		SB260-13		SB260-13		SB260-13		SB261-13		SB261-13			
Sample Identification	S SO-017360-081913-MR-047		SO-017360-081913-MR-048		SO-017360-081913-MR-049		SO-017360-081913-MR-050		SO-017360-081913-MR-027		SO-017360-081913-MR-028		SO-017360-081913-MR-029	
Sample Date	8/19/2013		8/19/2013		8/19/2013		8/19/2013		8/19/2013		8/19/2013		8/19/2013	
Sample Depth	(6-8) ft BGS		(8-10) ft BGS		(10-12) ft BGS		(12-14) ft BGS		(0-2) ft BGS		(2-4) ft BGS		(4-6) ft BGS	
Sample Type														
Metals		Units												
Antimony	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls (PCBs)														
Aroclor-1016 (PCB-1016)	µg/kg	430 U	350 U	340 U	330 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U
Aroclor-1221 (PCB-1221)	µg/kg	430 U	350 U	340 U	330 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U
Aroclor-1232 (PCB-1232)	µg/kg	430 U	350 U	340 U	330 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U
Aroclor-1242 (PCB-1242)	µg/kg	430 U	350 U	340 U	330 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U
Aroclor-1248 (PCB-1248)	µg/kg	430 U	350 U	340 U	330 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U
Aroclor-1254 (PCB-1254)	µg/kg	430 U	350 U	340 U	330 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U
Aroclor-1260 (PCB-1260)	µg/kg	430 U	350 U	340 U	330 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U
Total PCBs	µg/kg	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB260-13	SB260-13	SB260-13	SB260-13	SB261-13	SB261-13	SB261-13
Sample Identification	S SO-017360-081913-MR-047	SO-017360-081913-MR-048	SO-017360-081913-MR-049	SO-017360-081913-MR-050	SO-017360-081913-MR-027	SO-017360-081913-MR-028	SO-017360-081913-MR-029
Sample Date	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013
Sample Depth	(6-8) ft BGS	(8-10) ft BGS	(10-12) ft BGS	(12-14) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS
Sample Type							

Semi-Volatile Organic Compounds (SVOCs)

2,2'-Oxybis(1-chloropropane) ⁽⁵⁾	µg/kg	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrophenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2-Chloronaphthalene	µg/kg	-	-	-	-	-	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	-	-	-	-	-	-
2-Methylphenol	µg/kg	-	-	-	-	-	-
2-Nitroaniline	µg/kg	-	-	-	-	-	-
2-Nitrophenol	µg/kg	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-
3-Nitroaniline	µg/kg	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/kg	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/kg	-	-	-	-	-	-
4-Chloroaniline	µg/kg	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Methylphenol	µg/kg	-	-	-	-	-	-
4-Nitroaniline	µg/kg	-	-	-	-	-	-
4-Nitrophenol	µg/kg	-	-	-	-	-	-
Acenaphthene	µg/kg	-	-	-	-	-	-
Acenaphthylene	µg/kg	-	-	-	-	-	-
Acetophenone	µg/kg	-	-	-	-	-	-
Anthracene	µg/kg	-	-	-	-	-	-
Atrazine	µg/kg	-	-	-	-	-	-
Benzaldehyde	µg/kg	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	-	-	-	-	-	-
Benzo(a)pyrene	µg/kg	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/kg	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/kg	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB260-13	SB260-13	SB260-13	SB260-13	SB261-13	SB261-13	SB261-13
Sample Identification	S SO-017360-081913-MR-047	SO-017360-081913-MR-048	SO-017360-081913-MR-049	SO-017360-081913-MR-050	SO-017360-081913-MR-027	SO-017360-081913-MR-028	SO-017360-081913-MR-029
Sample Date	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013
Sample Depth	(6-8) ft BGS	(8-10) ft BGS	(10-12) ft BGS	(12-14) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS
Sample Type							

SVOCs (continued)

bis(2-Chloroethyl)ether	µg/kg	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-
Caprolactam	µg/kg	-	-	-	-	-	-
Carbazole	µg/kg	-	-	-	-	-	-
Chrysene	µg/kg	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/kg	-	-	-	-	-	-
Dibenzofuran	µg/kg	-	-	-	-	-	-
Diethyl phthalate	µg/kg	-	-	-	-	-	-
Dimethyl phthalate	µg/kg	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-
Fluoranthene	µg/kg	-	-	-	-	-	-
Fluorene	µg/kg	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/kg	-	-	-	-	-	-
Hexachloroethane	µg/kg	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	-	-	-	-
Isophorone	µg/kg	-	-	-	-	-	-
Naphthalene	µg/kg	-	-	-	-	-	-
Nitrobenzene	µg/kg	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/kg	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-
Pentachlorophenol	µg/kg	-	-	-	-	-	-
Phenanthrene	µg/kg	-	-	-	-	-	-
Phenol	µg/kg	-	-	-	-	-	-
Pyrene	µg/kg	-	-	-	-	-	-

Volatile Organic Compounds (VOCs)

1,1,1-Trichloroethane	µg/kg	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	-	-	-	-	-	-
1,1-Dichloroethane	µg/kg	-	-	-	-	-	-
1,1-Dichloroethene	µg/kg	-	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB260-13	SB260-13	SB260-13	SB260-13	SB261-13	SB261-13	SB261-13
Sample Identification	S SO-017360-081913-MR-047	SO-017360-081913-MR-048	SO-017360-081913-MR-049	SO-017360-081913-MR-050	SO-017360-081913-MR-027	SO-017360-081913-MR-028	SO-017360-081913-MR-029
Sample Date	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013
Sample Depth	(6-8) ft BGS	(8-10) ft BGS	(10-12) ft BGS	(12-14) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS
Sample Type							
VOCs (continued)							
1,2-Dibromoethane ⁽⁶⁾	µg/kg	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	-	-	-	-	-	-
1,2-Dichloroethane	µg/kg	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	-	-	-	-	-	-
2-Butanone ⁽⁷⁾	µg/kg	-	-	-	-	-	-
2-Hexanone	µg/kg	-	-	-	-	-	-
4-Methyl-2-pentanone ⁽⁸⁾	µg/kg	-	-	-	-	-	-
Acetone	µg/kg	-	-	-	-	-	-
Benzene	µg/kg	-	-	-	-	-	-
Bromodichloromethane	µg/kg	-	-	-	-	-	-
Bromoform	µg/kg	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/kg	-	-	-	-	-	-
Carbon disulfide	µg/kg	-	-	-	-	-	-
Carbon tetrachloride	µg/kg	-	-	-	-	-	-
Chlorobenzene	µg/kg	-	-	-	-	-	-
Chloroethane	µg/kg	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg	-	-	-	-	-	-
Chloromethane (Methyl chloride)	µg/kg	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-
cis-1,3-Dichloropropene	µg/kg	-	-	-	-	-	-
Cyclohexane	µg/kg	-	-	-	-	-	-
Dibromochloromethane	µg/kg	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	µg/kg	-	-	-	-	-	-
Ethylbenzene	µg/kg	-	-	-	-	-	-
Isopropyl benzene	µg/kg	-	-	-	-	-	-
Methyl acetate	µg/kg	-	-	-	-	-	-
Methyl cyclohexane	µg/kg	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	µg/kg	-	-	-	-	-	-
Methylene chloride	µg/kg	-	-	-	-	-	-
Styrene	µg/kg	-	-	-	-	-	-
Tetrachloroethene	µg/kg	-	-	-	-	-	-
Toluene	µg/kg	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-
trans-1,3-Dichloropropene	µg/kg	-	-	-	-	-	-
Trichloroethene	µg/kg	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	µg/kg	-	-	-	-	-	-
Trifluorotrchloroethane (Freon 113)	µg/kg	-	-	-	-	-	-
Vinyl chloride	µg/kg	-	-	-	-	-	-
Xylenes (total)	µg/kg	-	-	-	-	-	-

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location	SB261-13		SB261-13		SB261-13		SB261-13		SB262-13		SB262-13			
Sample Identification	S SO-017360-081913-MR-030		SO-017360-081913-MR-031		SO-017360-081913-MR-032		SO-017360-081913-MR-033		SO-017360-081913-MR-019		SO-017360-081913-MR-020		SO-017360-081913-MR-021	
Sample Date	8/19/2013		8/19/2013		8/19/2013		8/19/2013		8/19/2013		8/19/2013		8/19/2013	
Sample Depth	(6-8) ft BGS		(8-10) ft BGS		(10-12) ft BGS		(12-14) ft BGS		(2-4) ft BGS		(4-6) ft BGS		(6-8) ft BGS	
Sample Type														
Metals	Units													
Antimony	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls (PCBs)														
Aroclor-1016 (PCB-1016)	µg/kg	330 U	330 U	340 U	320 U	330 U	340 U	320 U	330 U	340 U	320 U	330 U	340 U	320 U
Aroclor-1221 (PCB-1221)	µg/kg	330 U	330 U	340 U	320 U	330 U	340 U	320 U	330 U	340 U	320 U	330 U	340 U	320 U
Aroclor-1232 (PCB-1232)	µg/kg	330 U	330 U	340 U	320 U	330 U	340 U	320 U	330 U	340 U	320 U	330 U	340 U	320 U
Aroclor-1242 (PCB-1242)	µg/kg	330 U	330 U	340 U	320 U	330 U	340 U	320 U	330 U	340 U	320 U	330 U	340 U	320 U
Aroclor-1248 (PCB-1248)	µg/kg	330 U	330 U	340 U	320 U	330 U	340 U	320 U	330 U	340 U	320 U	330 U	340 U	320 U
Aroclor-1254 (PCB-1254)	µg/kg	330 U	330 U	340 U	320 U	330 U	340 U	320 U	330 U	340 U	320 U	330 U	340 U	320 U
Aroclor-1260 (PCB-1260)	µg/kg	330 U	330 U	340 U	320 U	330 U	340 U	320 U	330 U	340 U	320 U	330 U	340 U	320 U
Total PCBs	µg/kg	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB261-13	SB261-13	SB261-13	SB261-13	SB262-13	SB262-13	SB262-13
Sample Identification	S SO-017360-081913-MR-030	SO-017360-081913-MR-031	SO-017360-081913-MR-032	SO-017360-081913-MR-033	SO-017360-081913-MR-019	SO-017360-081913-MR-020	SO-017360-081913-MR-021
Sample Date	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013
Sample Depth	(6-8) ft BGS	(8-10) ft BGS	(10-12) ft BGS	(12-14) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS
Sample Type							

Semi-Volatile Organic Compounds (SVOCs)

2,2'-Oxybis(1-chloropropane) ⁽⁵⁾	µg/kg	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrophenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2-Chloronaphthalene	µg/kg	-	-	-	-	-	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	-	-	-	-	-	-
2-Methylphenol	µg/kg	-	-	-	-	-	-
2-Nitroaniline	µg/kg	-	-	-	-	-	-
2-Nitrophenol	µg/kg	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-
3-Nitroaniline	µg/kg	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/kg	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/kg	-	-	-	-	-	-
4-Chloroaniline	µg/kg	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Methylphenol	µg/kg	-	-	-	-	-	-
4-Nitroaniline	µg/kg	-	-	-	-	-	-
4-Nitrophenol	µg/kg	-	-	-	-	-	-
Acenaphthene	µg/kg	-	-	-	-	-	-
Acenaphthylene	µg/kg	-	-	-	-	-	-
Acetophenone	µg/kg	-	-	-	-	-	-
Anthracene	µg/kg	-	-	-	-	-	-
Atrazine	µg/kg	-	-	-	-	-	-
Benzaldehyde	µg/kg	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	-	-	-	-	-	-
Benzo(a)pyrene	µg/kg	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/kg	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/kg	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	<i>SB261-13</i>	<i>SB261-13</i>	<i>SB261-13</i>	<i>SB261-13</i>	<i>SB262-13</i>	<i>SB262-13</i>	<i>SB262-13</i>
Sample Identification	<i>S SO-017360-081913-MR-030</i>	<i>SO-017360-081913-MR-031</i>	<i>SO-017360-081913-MR-032</i>	<i>SO-017360-081913-MR-033</i>	<i>SO-017360-081913-MR-019</i>	<i>SO-017360-081913-MR-020</i>	<i>SO-017360-081913-MR-021</i>
Sample Date	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>	<i>8/19/2013</i>
Sample Depth	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(10-12) ft BGS</i>	<i>(12-14) ft BGS</i>	<i>(2-4) ft BGS</i>	<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>
Sample Type							

SVOCs (continued)

bis(2-Chloroethyl)ether	µg/kg	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-
Caprolactam	µg/kg	-	-	-	-	-	-
Carbazole	µg/kg	-	-	-	-	-	-
Chrysene	µg/kg	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/kg	-	-	-	-	-	-
Dibenzofuran	µg/kg	-	-	-	-	-	-
Diethyl phthalate	µg/kg	-	-	-	-	-	-
Dimethyl phthalate	µg/kg	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-
Fluoranthene	µg/kg	-	-	-	-	-	-
Fluorene	µg/kg	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/kg	-	-	-	-	-	-
Hexachloroethane	µg/kg	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	-	-	-	-
Isophorone	µg/kg	-	-	-	-	-	-
Naphthalene	µg/kg	-	-	-	-	-	-
Nitrobenzene	µg/kg	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/kg	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-
Pentachlorophenol	µg/kg	-	-	-	-	-	-
Phenanthrene	µg/kg	-	-	-	-	-	-
Phenol	µg/kg	-	-	-	-	-	-
Pyrene	µg/kg	-	-	-	-	-	-

Volatile Organic Compounds (VOCs)

1,1,1-Trichloroethane	µg/kg	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	-	-	-	-	-	-
1,1-Dichloroethane	µg/kg	-	-	-	-	-	-
1,1-Dichloroethene	µg/kg	-	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB261-13	SB261-13	SB261-13	SB261-13	SB262-13	SB262-13	SB262-13
Sample Identification	S SO-017360-081913-MR-030	SO-017360-081913-MR-031	SO-017360-081913-MR-032	SO-017360-081913-MR-033	SO-017360-081913-MR-019	SO-017360-081913-MR-020	SO-017360-081913-MR-021
Sample Date	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/19/2013
Sample Depth	(6-8) ft BGS	(8-10) ft BGS	(10-12) ft BGS	(12-14) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS
Sample Type							
VOCs (continued)							
1,2-Dibromoethane ⁽⁶⁾	µg/kg	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	-	-	-	-	-	-
1,2-Dichloroethane	µg/kg	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	-	-	-	-	-	-
2-Butanone ⁽⁷⁾	µg/kg	-	-	-	-	-	-
2-Hexanone	µg/kg	-	-	-	-	-	-
4-Methyl-2-pentanone ⁽⁸⁾	µg/kg	-	-	-	-	-	-
Acetone	µg/kg	-	-	-	-	-	-
Benzene	µg/kg	-	-	-	-	-	-
Bromodichloromethane	µg/kg	-	-	-	-	-	-
Bromoform	µg/kg	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/kg	-	-	-	-	-	-
Carbon disulfide	µg/kg	-	-	-	-	-	-
Carbon tetrachloride	µg/kg	-	-	-	-	-	-
Chlorobenzene	µg/kg	-	-	-	-	-	-
Chloroethane	µg/kg	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg	-	-	-	-	-	-
Chloromethane (Methyl chloride)	µg/kg	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-
cis-1,3-Dichloropropene	µg/kg	-	-	-	-	-	-
Cyclohexane	µg/kg	-	-	-	-	-	-
Dibromochloromethane	µg/kg	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	µg/kg	-	-	-	-	-	-
Ethylbenzene	µg/kg	-	-	-	-	-	-
Isopropyl benzene	µg/kg	-	-	-	-	-	-
Methyl acetate	µg/kg	-	-	-	-	-	-
Methyl cyclohexane	µg/kg	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	µg/kg	-	-	-	-	-	-
Methylene chloride	µg/kg	-	-	-	-	-	-
Styrene	µg/kg	-	-	-	-	-	-
Tetrachloroethene	µg/kg	-	-	-	-	-	-
Toluene	µg/kg	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-
trans-1,3-Dichloropropene	µg/kg	-	-	-	-	-	-
Trichloroethene	µg/kg	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	µg/kg	-	-	-	-	-	-
Trifluorotrchloroethane (Freon 113)	µg/kg	-	-	-	-	-	-
Vinyl chloride	µg/kg	-	-	-	-	-	-
Xylenes (total)	µg/kg	-	-	-	-	-	-

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location	SB262-13		SB262-13		SB262-13		SB262-13		SB263-13		SB263-13		SB264-13	
Sample Identification	S SO-017360-081913-MR-022		SO-017360-081913-MR-023		SO-017360-081913-MR-024		SO-017360-081913-MR-026		SO-17360-082213-MR-152		SO-17360-082213-MR-153		SO-17360-082213-MR-154	
Sample Date	8/19/2013		8/19/2013		8/19/2013		8/19/2013		8/22/2013		8/22/2013		8/22/2013	
Sample Depth	(8-10) ft BGS		(8-10) ft BGS		(10-12) ft BGS		(12-14) ft BGS		(5-6) ft BGS		(19-20) ft BGS		(6-7) ft BGS	
Sample Type			Duplicate											
Metals	Units													
Antimony	µg/kg	-	-	-	-	-	-	-	120 J	-	240 U	-	360 U	-
Arsenic	µg/kg	-	-	-	-	-	-	-	1500	-	1800	-	1300	-
Barium	µg/kg	-	-	-	-	-	-	-	17000	-	7500	-	15000	-
Beryllium	µg/kg	-	-	-	-	-	-	-	92 J	-	41 J	-	85 J	-
Cadmium	µg/kg	-	-	-	-	-	-	-	150 U	-	96 U	-	150 U	-
Chromium	µg/kg	-	-	-	-	-	-	-	6400	-	6400	-	4000	-
Cobalt	µg/kg	-	-	-	-	-	-	-	2100	-	2700	-	1700	-
Copper	µg/kg	-	-	-	-	-	-	-	4200	-	5700	-	4100	-
Iron	µg/kg	-	-	-	-	-	-	-	5200000	-	5600000	-	4200000	-
Lead	µg/kg	-	-	-	-	-	-	-	3800	-	2600	-	5500	-
Manganese	µg/kg	-	-	-	-	-	-	-	180000	-	190000	-	130000	-
Mercury	µg/kg	-	-	-	-	-	-	-	10 J	-	5.1 J	-	9.6 J	-
Molybdenum	µg/kg	-	-	-	-	-	-	-	370 U	-	240 U	-	360 U	-
Nickel	µg/kg	-	-	-	-	-	-	-	4800	-	6000	-	3600	-
Selenium	µg/kg	-	-	-	-	-	-	-	370 U	-	240 U	-	360 U	-
Silver	µg/kg	-	-	-	-	-	-	-	370 U	-	240 U	-	360 U	-
Thallium	µg/kg	-	-	-	-	-	-	-	53 J	-	42 J	-	41 J	-
Vanadium	µg/kg	-	-	-	-	-	-	-	10000	-	8000	-	7200	-
Zinc	µg/kg	-	-	-	-	-	-	-	12000	-	9300	-	9800	-
Polychlorinated Biphenyls (PCBs)														
Aroclor-1016 (PCB-1016)	µg/kg	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	330 U	330 U
Aroclor-1221 (PCB-1221)	µg/kg	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	330 U	330 U
Aroclor-1232 (PCB-1232)	µg/kg	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	330 U	330 U
Aroclor-1242 (PCB-1242)	µg/kg	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	330 U	330 U
Aroclor-1248 (PCB-1248)	µg/kg	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	330 U	330 U
Aroclor-1254 (PCB-1254)	µg/kg	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	330 U	330 U
Aroclor-1260 (PCB-1260)	µg/kg	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	330 U	330 U
Total PCBs	µg/kg	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location	SB262-13	SB262-13	SB262-13	SB262-13	SB263-13	SB263-13	SB264-13
Sample Identification	S SO-017360-081913-MR-022	SO-017360-081913-MR-023	SO-017360-081913-MR-024	SO-017360-081913-MR-026	SO-17360-082213-MR-152	SO-17360-082213-MR-153	SO-17360-082213-MR-154
Sample Date	8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/22/2013	8/22/2013	8/22/2013
Sample Depth	(8-10) ft BGS	(8-10) ft BGS	(10-12) ft BGS	(12-14) ft BGS	(5-6) ft BGS	(19-20) ft BGS	(6-7) ft BGS
Sample Type		Duplicate					
Semi-Volatile Organic Compounds (SVOCs)							
2,2'-Oxybis(1-chloropropane) ⁽⁵⁾	µg/kg	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrophenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2-Chloronaphthalene	µg/kg	-	-	-	-	-	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	-	-	-	85 U	83 U	84 U
2-Methylphenol	µg/kg	-	-	-	-	-	-
2-Nitroaniline	µg/kg	-	-	-	-	-	-
2-Nitrophenol	µg/kg	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-
3-Nitroaniline	µg/kg	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/kg	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/kg	-	-	-	-	-	-
4-Chloroaniline	µg/kg	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Methylphenol	µg/kg	-	-	-	-	-	-
4-Nitroaniline	µg/kg	-	-	-	-	-	-
4-Nitrophenol	µg/kg	-	-	-	-	-	-
Acenaphthene	µg/kg	-	-	-	32 U	31 U	31 U
Acenaphthylene	µg/kg	-	-	-	32 U	31 U	31 U
Acetophenone	µg/kg	-	-	-	-	-	-
Anthracene	µg/kg	-	-	-	32 U	31 U	44
Atrazine	µg/kg	-	-	-	-	-	-
Benzaldehyde	µg/kg	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	-	-	-	32 U	31 U	81
Benzo(a)pyrene	µg/kg	-	-	-	68	31 U	120
Benzo(b)fluoranthene	µg/kg	-	-	-	55	31 U	150
Benzo(g,h,i)perylene	µg/kg	-	-	-	62	31 U	130
Benzo(k)fluoranthene	µg/kg	-	-	-	35	31 U	72
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/kg	-	-	-	-	-	-

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location		SB262-13	SB262-13	SB262-13	SB262-13	SB263-13	SB263-13	SB264-13
Sample Identification	S	SO-017360-081913-MR-022	SO-017360-081913-MR-023	SO-017360-081913-MR-024	SO-017360-081913-MR-026	SO-17360-082213-MR-152	SO-17360-082213-MR-153	SO-17360-082213-MR-154
Sample Date		8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/22/2013	8/22/2013	8/22/2013
Sample Depth		(8-10) ft BGS	(8-10) ft BGS	(10-12) ft BGS	(12-14) ft BGS	(5-6) ft BGS	(19-20) ft BGS	(6-7) ft BGS
Sample Type			Duplicate					
SVOCs (continued)								
bis(2-Chloroethyl)ether	µg/kg	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-	-
Caprolactam	µg/kg	-	-	-	-	-	-	-
Carbazole	µg/kg	-	-	-	-	-	-	-
Chrysene	µg/kg	-	-	-	-	32 U	31 U	78
Dibenz(a,h)anthracene	µg/kg	-	-	-	-	32 U	31 U	76
Dibenzofuran	µg/kg	-	-	-	-	-	-	-
Diethyl phthalate	µg/kg	-	-	-	-	-	-	-
Dimethyl phthalate	µg/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-	-
Fluoranthene	µg/kg	-	-	-	-	56	43	150
Fluorene	µg/kg	-	-	-	-	32 U	31 U	31 U
Hexachlorobenzene	µg/kg	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/kg	-	-	-	-	-	-	-
Hexachloroethane	µg/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	-	-	33	31 U	120
Isophorone	µg/kg	-	-	-	-	-	-	-
Naphthalene	µg/kg	-	-	-	-	32 U	31 U	31 U
Nitrobenzene	µg/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	-	-	-	-	-	-	-
Phenanthrene	µg/kg	-	-	-	-	32 U	31 U	61
Phenol	µg/kg	-	-	-	-	-	-	-
Pyrene	µg/kg	-	-	-	-	38	18 J	140
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	µg/kg	-	-	-	-	33 U	33 U	32 U
1,1,2,2-Tetrachloroethane	µg/kg	-	-	-	-	33 U	33 U	32 U
1,1,2-Trichloroethane	µg/kg	-	-	-	-	33 U	33 U	32 U
1,1-Dichloroethane	µg/kg	-	-	-	-	33 U	33 U	32 U
1,1-Dichloroethene	µg/kg	-	-	-	-	33 U	33 U	32 U
1,2,4-Trichlorobenzene	µg/kg	-	-	-	-	33 U	33 U	32 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	-	-	-	-	33 U	33 U	32 U

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location		SB262-13	SB262-13	SB262-13	SB262-13	SB263-13	SB263-13	SB264-13
Sample Identification		S SO-017360-081913-MR-022	SO-017360-081913-MR-023	SO-017360-081913-MR-024	SO-017360-081913-MR-026	SO-17360-082213-MR-152	SO-17360-082213-MR-153	SO-17360-082213-MR-154
Sample Date		8/19/2013	8/19/2013	8/19/2013	8/19/2013	8/22/2013	8/22/2013	8/22/2013
Sample Depth		(8-10) ft BGS	(8-10) ft BGS	(10-12) ft BGS	(12-14) ft BGS	(5-6) ft BGS	(19-20) ft BGS	(6-7) ft BGS
Sample Type			Duplicate					
VOCs (continued)								
1,2-Dibromoethane ⁽⁶⁾	µg/kg	-	-	-	-	33 U	33 U	32 U
1,2-Dichlorobenzene	µg/kg	-	-	-	-	33 U	33 U	32 U
1,2-Dichloroethane	µg/kg	-	-	-	-	33 U	33 U	32 U
1,2-Dichloropropane	µg/kg	-	-	-	-	33 U	33 U	32 U
1,3-Dichlorobenzene	µg/kg	-	-	-	-	33 U	33 U	32 U
1,4-Dichlorobenzene	µg/kg	-	-	-	-	33 U	33 U	32 U
2-Butanone ⁽⁷⁾	µg/kg	-	-	-	-	220 U	220 U	210 U
2-Hexanone	µg/kg	-	-	-	-	33 U	33 U	32 U
4-Methyl-2-pentanone ⁽⁸⁾	µg/kg	-	-	-	-	33 U	33 U	32 U
Acetone	µg/kg	-	-	-	-	110 U	110 U	110 U
Benzene	µg/kg	-	-	-	-	33 U	33 U	32 U
Bromodichloromethane	µg/kg	-	-	-	-	33 U	33 U	32 U
Bromoform	µg/kg	-	-	-	-	33 U	33 U	32 U
Bromomethane (Methyl bromide)	µg/kg	-	-	-	-	82 UJ	82 UJ	80 UJ
Carbon disulfide	µg/kg	-	-	-	-	33 U	33 U	32 U
Carbon tetrachloride	µg/kg	-	-	-	-	33 U	33 U	32 U
Chlorobenzene	µg/kg	-	-	-	-	33 U	33 U	32 U
Chloroethane	µg/kg	-	-	-	-	110 U	110 U	110 U
Chloroform (Trichloromethane)	µg/kg	-	-	-	-	33 U	33 U	32 U
Chloromethane (Methyl chloride)	µg/kg	-	-	-	-	110 U	110 U	110 U
cis-1,2-Dichloroethene	µg/kg	-	-	-	-	33 U	33 U	32 U
cis-1,3-Dichloropropene	µg/kg	-	-	-	-	33 U	33 U	32 U
Cyclohexane	µg/kg	-	-	-	-	33 U	33 U	32 U
Dibromochloromethane	µg/kg	-	-	-	-	33 U	33 UJ	32 U
Dichlorodifluoromethane (CFC-12)	µg/kg	-	-	-	-	33 U	33 U	32 U
Ethylbenzene	µg/kg	-	-	-	-	33 U	33 U	32 U
Isopropyl benzene	µg/kg	-	-	-	-	33 U	33 U	32 U
Methyl acetate	µg/kg	-	-	-	-	220 U	220 U	210 U
Methyl cyclohexane	µg/kg	-	-	-	-	33 U	33 U	32 U
Methyl tert butyl ether (MTBE)	µg/kg	-	-	-	-	33 U	33 U	32 U
Methylene chloride	µg/kg	-	-	-	-	33 U	33 U	32 U
Styrene	µg/kg	-	-	-	-	33 U	33 U	32 U
Tetrachloroethene	µg/kg	-	-	-	-	33 U	33 U	32 U
Toluene	µg/kg	-	-	-	-	33 U	33 U	32 U
trans-1,2-Dichloroethene	µg/kg	-	-	-	-	33 U	33 U	32 U
trans-1,3-Dichloropropene	µg/kg	-	-	-	-	33 U	33 U	32 U
Trichloroethene	µg/kg	-	-	-	-	33 U	33 U	32 U
Trichlorofluoromethane (CFC-11)	µg/kg	-	-	-	-	33 U	33 U	32 U
Trifluorotrichloroethane (Freon 113)	µg/kg	-	-	-	-	33 U	33 U	32 U
Vinyl chloride	µg/kg	-	-	-	-	33 U	33 U	32 U
Xylenes (total)	µg/kg	-	-	-	-	99 U	98 U	97 U

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location	SB264-13		SB264-13		SB265-13		SB265-13		SB266-13		SB267-13		SB267-13	
Sample Identification	S	SO-17360-082213-MR-155	SO-17360-082213-MR-156		SO-17360-082213-MR-158		SO-17360-082213-MR-159		SO-17360-082213-MR-157		SO-17360-082113-MR-115		SO-17360-082113-MR-116	
Sample Date		8/22/2013	8/22/2013		8/22/2013		8/22/2013		8/22/2013		8/21/2013		8/21/2013	
Sample Depth		(20-22) ft BGS	(20-22) ft BGS		(5-6) ft BGS		(14-15) ft BGS		(4-5) ft BGS		(0-2) ft BGS		(2-4) ft BGS	
Sample Type			Duplicate											
Metals														
	Units													
Antimony	µg/kg	300 U	300 U		260 U		240 U		130 J		-		-	
Arsenic	µg/kg	2000	2000		1800		2800		2300		-		-	
Barium	µg/kg	6300	6300		7000		5300		21000		-		-	
Beryllium	µg/kg	58 J	58 J		39 J		36 J		110 J		-		-	
Cadmium	µg/kg	120 U	120 U		100 U		95 U		140 U		-		-	
Chromium	µg/kg	5600	5600		5900		6200		4400		-		-	
Cobalt	µg/kg	2200	2200		2500		2300		1700		-		-	
Copper	µg/kg	6500	6500		6600		4400		4100		-		-	
Iron	µg/kg	4500000	5400000		5300000		4200000		4200000		-		-	
Lead	µg/kg	2600	2800		3300 U		2800 U		5300		-		-	
Manganese	µg/kg	130000	180000		210000		110000		110000		-		-	
Mercury	µg/kg	3.5 J	3.7 J		5.7 J		3.8 J		11 J		-		-	
Molybdenum	µg/kg	300 U	290 J		260 U		240 U		260 J		-		-	
Nickel	µg/kg	4400	5500		5500		4700		4000		-		-	
Selenium	µg/kg	300 U	270 J		240 J		240		260 J		-		-	
Silver	µg/kg	300 U	300 U		260 U		240 U		350 U		-		-	
Thallium	µg/kg	70 J	1500 U		1300 U		1200 U		42 J		-		-	
Vanadium	µg/kg	7900	7900		8300		7800		7400		-		-	
Zinc	µg/kg	7300	11000		12000		7900		10000		-		-	
Polychlorinated Biphenyls (PCBs)														
Aroclor-1016 (PCB-1016)	µg/kg	330 U	320 U		350 U		330 U		340 U		-		-	
Aroclor-1221 (PCB-1221)	µg/kg	330 U	320 U		350 U		330 U		340 U		-		-	
Aroclor-1232 (PCB-1232)	µg/kg	330 U	320 U		350 U		330 U		340 U		-		-	
Aroclor-1242 (PCB-1242)	µg/kg	330 U	320 U		350 U		330 U		340 U		-		-	
Aroclor-1248 (PCB-1248)	µg/kg	330 U	320 U		350 U		330 U		340 U		-		-	
Aroclor-1254 (PCB-1254)	µg/kg	330 U	320 U		350 U		330 U		340 U		-		-	
Aroclor-1260 (PCB-1260)	µg/kg	330 U	320 U		350 U		330 U		340 U		-		-	
Total PCBs	µg/kg	0	0		0		0		0		-		-	

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	<i>SB264-13</i>	<i>SB264-13</i>	<i>SB265-13</i>	<i>SB265-13</i>	<i>SB266-13</i>	<i>SB267-13</i>	<i>SB267-13</i>
Sample Identification	<i>S SO-17360-082213-MR-155</i>	<i>SO-17360-082213-MR-156</i>	<i>SO-17360-082213-MR-158</i>	<i>SO-17360-082213-MR-159</i>	<i>SO-17360-082213-MR-157</i>	<i>SO-17360-082213-MR-115</i>	<i>SO-17360-082213-MR-116</i>
Sample Date	<i>8/22/2013</i>	<i>8/22/2013</i>	<i>8/22/2013</i>	<i>8/22/2013</i>	<i>8/22/2013</i>	<i>8/21/2013</i>	<i>8/21/2013</i>
Sample Depth	<i>(20-22) ft BGS</i>	<i>(20-22) ft BGS</i>	<i>(5-6) ft BGS</i>	<i>(14-15) ft BGS</i>	<i>(4-5) ft BGS</i>	<i>(0-2) ft BGS</i>	<i>(2-4) ft BGS</i>
Sample Type		<i>Duplicate</i>					
<i>Semi-Volatile Organic Compounds (SVOCs)</i>							
2,2'-Oxybis(1-chloropropane) ⁽⁵⁾	µg/kg	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrophenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2-Chloronaphthalene	µg/kg	-	-	-	-	-	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	82 U	81 U	84 U	80 U	850 U	-
2-Methylphenol	µg/kg	-	-	-	-	-	-
2-Nitroaniline	µg/kg	-	-	-	-	-	-
2-Nitrophenol	µg/kg	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-
3-Nitroaniline	µg/kg	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/kg	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/kg	-	-	-	-	-	-
4-Chloroaniline	µg/kg	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Methylphenol	µg/kg	-	-	-	-	-	-
4-Nitroaniline	µg/kg	-	-	-	-	-	-
4-Nitrophenol	µg/kg	-	-	-	-	-	-
Acenaphthene	µg/kg	31 U	30 U	32 U	30 U	320 U	-
Acenaphthylene	µg/kg	31 U	30 U	32 U	30 U	320 U	-
Acetophenone	µg/kg	-	-	-	-	-	-
Anthracene	µg/kg	31 U	30 U	32 U	30 U	460	-
Atrazine	µg/kg	-	-	-	-	-	-
Benzaldehyde	µg/kg	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	31 U	30 U	32 U	30 U	580	-
Benzo(a)pyrene	µg/kg	31 U	30 U	32 U	30 U	1000	-
Benzo(b)fluoranthene	µg/kg	31 U	30 U	32 U	30 U	1000	-
Benzo(g,h,i)perylene	µg/kg	31 U	30 U	32 U	30 U	870	-
Benzo(k)fluoranthene	µg/kg	31 U	30 U	32 U	30 U	560	-
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/kg	-	-	-	-	-	-

TABLE 2

**SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI**

Sample Location	SB264-13		SB264-13		SB265-13		SB265-13		SB266-13		SB267-13		SB267-13	
Sample Identification	S	SO-17360-082213-MR-155	SO-17360-082213-MR-156	SO-17360-082213-MR-158	SO-17360-082213-MR-159	SO-17360-082213-MR-157	SO-17360-082213-MR-115	SO-17360-082213-MR-116						
Sample Date		8/22/2013	8/22/2013	8/22/2013	8/22/2013	8/22/2013	8/21/2013	8/21/2013						
Sample Depth		(20-22) ft BGS	(20-22) ft BGS	(5-6) ft BGS	(14-15) ft BGS	(4-5) ft BGS	(0-2) ft BGS	(2-4) ft BGS						
Sample Type			Duplicate											
SVOCs (continued)														
bis(2-Chloroethyl)ether	µg/kg	-	-	-	-	-	-	-						
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-	-						
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-	-						
Caprolactam	µg/kg	-	-	-	-	-	-	-						
Carbazole	µg/kg	-	-	-	-	-	-	-						
Chrysene	µg/kg	31 U	30 U	32 U	30 U	530	-	-						
Dibenz(a,h)anthracene	µg/kg	31 U	30 U	32 U	30 U	700	-	-						
Dibenzofuran	µg/kg	-	-	-	-	-	-	-						
Diethyl phthalate	µg/kg	-	-	-	-	-	-	-						
Dimethyl phthalate	µg/kg	-	-	-	-	-	-	-						
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-	-						
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-	-						
Fluoranthene	µg/kg	31 U	30 U	47	30 U	1500	-	-						
Fluorene	µg/kg	31 U	30 U	32 U	30 U	320 U	-	-						
Hexachlorobenzene	µg/kg	-	-	-	-	-	-	-						
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-	-						
Hexachlorocyclopentadiene	µg/kg	-	-	-	-	-	-	-						
Hexachloroethane	µg/kg	-	-	-	-	-	-	-						
Indeno(1,2,3-cd)pyrene	µg/kg	31 U	30 U	32 U	30 U	760	-	-						
Isophorone	µg/kg	-	-	-	-	-	-	-						
Naphthalene	µg/kg	31 U	30 U	32 U	30 U	320 U	-	-						
Nitrobenzene	µg/kg	-	-	-	-	-	-	-						
N-Nitrosodi-n-propylamine	µg/kg	-	-	-	-	-	-	-						
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-	-						
Pentachlorophenol	µg/kg	-	-	-	-	-	-	-						
Phenanthrene	µg/kg	31 U	30 U	32 U	30 U	550	-	-						
Phenol	µg/kg	-	-	-	-	-	-	-						
Pyrene	µg/kg	31 U	30 U	18 J	30 U	910	-	-						
Volatile Organic Compounds (VOCs)														
1,1,1-Trichloroethane	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U						
1,1,2,2-Tetrachloroethane	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U						
1,1,2-Trichloroethane	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U						
1,1-Dichloroethane	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U						
1,1-Dichloroethene	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U						
1,2,4-Trichlorobenzene	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U						
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U						

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location		SB264-13	SB264-13	SB265-13	SB265-13	SB266-13	SB267-13	SB267-13
Sample Identification	S	SO-17360-082213-MR-155	SO-17360-082213-MR-156	SO-17360-082213-MR-158	SO-17360-082213-MR-159	SO-17360-082213-MR-157	SO-17360-082113-MR-115	SO-17360-082113-MR-116
Sample Date		8/22/2013	8/22/2013	8/22/2013	8/22/2013	8/22/2013	8/21/2013	8/21/2013
Sample Depth		(20-22) ft BGS	(20-22) ft BGS	(5-6) ft BGS	(14-15) ft BGS	(4-5) ft BGS	(0-2) ft BGS	(2-4) ft BGS
Sample Type			Duplicate					
VOCs (continued)								
1,2-Dibromoethane ⁽⁶⁾	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
1,2-Dichlorobenzene	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
1,2-Dichloroethane	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
1,2-Dichloropropane	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
1,3-Dichlorobenzene	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
1,4-Dichlorobenzene	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
2-Butanone ⁽⁷⁾	µg/kg	250 U	210 U	220 U	210 U	240 U	-	270 U
2-Hexanone	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
4-Methyl-2-pentanone ⁽⁸⁾	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
Acetone	µg/kg	120 U	100 U	110 U	110 U	120 U	-	290
Benzene	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
Bromodichloromethane	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
Bromoform	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
Bromomethane (Methyl bromide)	µg/kg	92 UJ	77 UJ	82 UJ	80 UJ	92 UJ	-	100 U
Carbon disulfide	µg/kg	37 U	31 U	33 U	32 U	37 U	-	220
Carbon tetrachloride	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
Chlorobenzene	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
Chloroethane	µg/kg	120 U	100 U	110 U	110 U	120 U	-	140 U
Chloroform (Trichloromethane)	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
Chloromethane (Methyl chloride)	µg/kg	120 U	100 U	110 U	110 U	120 U	-	140 U
cis-1,2-Dichloroethene	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
cis-1,3-Dichloropropene	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
Cyclohexane	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
Dibromochloromethane	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
Dichlorodifluoromethane (CFC-12)	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
Ethylbenzene	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
Isopropyl benzene	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
Methyl acetate	µg/kg	250 U	210 U	220 U	210 U	240 U	-	270 U
Methyl cyclohexane	µg/kg	37 U	31 U	33 U	32 U	48	-	41 U
Methyl tert butyl ether (MTBE)	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
Methylene chloride	µg/kg	37 U	31 U	33 U	32 U	37 U	-	520 ^{bc}
Styrene	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
Tetrachloroethene	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
Toluene	µg/kg	37 U	31 U	33 U	32 U	15 J	-	22 J
trans-1,2-Dichloroethene	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
trans-1,3-Dichloropropene	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
Trichloroethene	µg/kg	37 U	31 U	33 U	32 U	46	-	78
Trichlorofluoromethane (CFC-11)	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
Trifluorotrichloroethane (Freon 113)	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
Vinyl chloride	µg/kg	37 U	31 U	33 U	32 U	37 U	-	41 U
Xylenes (total)	µg/kg	110 U	93 U	99 U	96 U	110 U	-	120 U

520^{bc}

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB267-13	SB267-13	SB267-13	SB267-13	SB267-13	SB269-13	SB269-13
Sample Identification	S SO-17360-082113-MR-117	SO-17360-082113-MR-118	SO-17360-082113-MR-119	SO-17360-082113-MR-120	SO-17360-082113-MR-121	SO-17360-082113-MR-124	SO-17360-082113-MR-125
Sample Date	8/21/2013	8/21/2013	8/21/2013	8/21/2013	8/21/2013	8/21/2013	8/21/2013
Sample Depth	(4-6) ft BGS	(6-8) ft BGS	(8-9.8) ft BGS	(10-12) ft BGS	(12.5-14.5) ft BGS	(0-2) ft BGS	(0-2) ft BGS
Sample Type							Duplicate
Metals	Units						
Antimony	µg/kg	-	-	-	-	-	-
Arsenic	µg/kg	-	-	-	-	-	-
Barium	µg/kg	-	-	-	-	-	-
Beryllium	µg/kg	-	-	-	-	-	-
Cadmium	µg/kg	-	-	-	-	-	-
Chromium	µg/kg	-	-	-	-	-	-
Cobalt	µg/kg	-	-	-	-	-	-
Copper	µg/kg	-	-	-	-	-	-
Iron	µg/kg	-	-	-	-	-	-
Lead	µg/kg	-	-	-	-	-	-
Manganese	µg/kg	-	-	-	-	-	-
Mercury	µg/kg	-	-	-	-	-	-
Molybdenum	µg/kg	-	-	-	-	-	-
Nickel	µg/kg	-	-	-	-	-	-
Selenium	µg/kg	-	-	-	-	-	-
Silver	µg/kg	-	-	-	-	-	-
Thallium	µg/kg	-	-	-	-	-	-
Vanadium	µg/kg	-	-	-	-	-	-
Zinc	µg/kg	-	-	-	-	-	-
Polychlorinated Biphenyls (PCBs)							
Aroclor-1016 (PCB-1016)	µg/kg	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/kg	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/kg	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/kg	-	-	-	-	-	-
Total PCBs	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB267-13	SB267-13	SB267-13	SB267-13	SB267-13	SB269-13	SB269-13
Sample Identification	S SO-17360-082113-MR-117	SO-17360-082113-MR-118	SO-17360-082113-MR-119	SO-17360-082113-MR-120	SO-17360-082113-MR-121	SO-17360-082113-MR-124	SO-17360-082113-MR-125
Sample Date	8/21/2013	8/21/2013	8/21/2013	8/21/2013	8/21/2013	8/21/2013	8/21/2013
Sample Depth	(4-6) ft BGS	(6-8) ft BGS	(8-9.8) ft BGS	(10-12) ft BGS	(12.5-14.5) ft BGS	(0-2) ft BGS	(0-2) ft BGS
Sample Type							Duplicate

Semi-Volatile Organic Compounds (SVOCs)

2,2'-Oxybis(1-chloropropane) ⁽⁵⁾	µg/kg	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrophenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2-Chloronaphthalene	µg/kg	-	-	-	-	-	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	-	-	-	-	-	-
2-Methylphenol	µg/kg	-	-	-	-	-	-
2-Nitroaniline	µg/kg	-	-	-	-	-	-
2-Nitrophenol	µg/kg	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-
3-Nitroaniline	µg/kg	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/kg	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/kg	-	-	-	-	-	-
4-Chloroaniline	µg/kg	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Methylphenol	µg/kg	-	-	-	-	-	-
4-Nitroaniline	µg/kg	-	-	-	-	-	-
4-Nitrophenol	µg/kg	-	-	-	-	-	-
Acenaphthene	µg/kg	-	-	-	-	-	-
Acenaphthylene	µg/kg	-	-	-	-	-	-
Acetophenone	µg/kg	-	-	-	-	-	-
Anthracene	µg/kg	-	-	-	-	-	-
Atrazine	µg/kg	-	-	-	-	-	-
Benzaldehyde	µg/kg	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	-	-	-	-	-	-
Benzo(a)pyrene	µg/kg	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/kg	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/kg	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	<i>SB267-13</i>	<i>SB267-13</i>	<i>SB267-13</i>	<i>SB267-13</i>	<i>SB267-13</i>	<i>SB269-13</i>	<i>SB269-13</i>
Sample Identification	<i>S SO-17360-082113-MR-117</i>	<i>SO-17360-082113-MR-118</i>	<i>SO-17360-082113-MR-119</i>	<i>SO-17360-082113-MR-120</i>	<i>SO-17360-082113-MR-121</i>	<i>SO-17360-082113-MR-124</i>	<i>SO-17360-082113-MR-125</i>
Sample Date	<i>8/21/2013</i>	<i>8/21/2013</i>	<i>8/21/2013</i>	<i>8/21/2013</i>	<i>8/21/2013</i>	<i>8/21/2013</i>	<i>8/21/2013</i>
Sample Depth	<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-9.8) ft BGS</i>	<i>(10-12) ft BGS</i>	<i>(12.5-14.5) ft BGS</i>	<i>(0-2) ft BGS</i>	<i>(0-2) ft BGS</i>
Sample Type							<i>Duplicate</i>

SVOCs (continued)

bis(2-Chloroethyl)ether	µg/kg	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-
Caprolactam	µg/kg	-	-	-	-	-	-
Carbazole	µg/kg	-	-	-	-	-	-
Chrysene	µg/kg	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/kg	-	-	-	-	-	-
Dibenzofuran	µg/kg	-	-	-	-	-	-
Diethyl phthalate	µg/kg	-	-	-	-	-	-
Dimethyl phthalate	µg/kg	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-
Fluoranthene	µg/kg	-	-	-	-	-	-
Fluorene	µg/kg	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/kg	-	-	-	-	-	-
Hexachloroethane	µg/kg	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	-	-	-	-
Isophorone	µg/kg	-	-	-	-	-	-
Naphthalene	µg/kg	-	-	-	-	-	-
Nitrobenzene	µg/kg	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/kg	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-
Pentachlorophenol	µg/kg	-	-	-	-	-	-
Phenanthrene	µg/kg	-	-	-	-	-	-
Phenol	µg/kg	-	-	-	-	-	-
Pyrene	µg/kg	-	-	-	-	-	-

Volatile Organic Compounds (VOCs)

1,1,1-Trichloroethane	µg/kg	-	-	40 U	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	-	-	40 U	-	-	-
1,1,2-Trichloroethane	µg/kg	-	-	40 U	-	-	-
1,1-Dichloroethane	µg/kg	-	-	40 U	-	-	-
1,1-Dichloroethene	µg/kg	-	-	40 U	-	-	-
1,2,4-Trichlorobenzene	µg/kg	-	-	40 U	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	-	-	40 U	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB267-13	SB267-13	SB267-13	SB267-13	SB267-13	SB269-13	SB269-13
Sample Identification	S SO-17360-082113-MR-117	SO-17360-082113-MR-118	SO-17360-082113-MR-119	SO-17360-082113-MR-120	SO-17360-082113-MR-121	SO-17360-082113-MR-124	SO-17360-082113-MR-125
Sample Date	8/21/2013	8/21/2013	8/21/2013	8/21/2013	8/21/2013	8/21/2013	8/21/2013
Sample Depth	(4-6) ft BGS	(6-8) ft BGS	(8-9.8) ft BGS	(10-12) ft BGS	(12.5-14.5) ft BGS	(0-2) ft BGS	(0-2) ft BGS
Sample Type							Duplicate
VOCs (continued)							
1,2-Dibromoethane ⁽⁶⁾	µg/kg	-	-	40 U	-	-	-
1,2-Dichlorobenzene	µg/kg	-	-	40 U	-	-	-
1,2-Dichloroethane	µg/kg	-	-	40 U	-	-	-
1,2-Dichloropropane	µg/kg	-	-	40 U	-	-	-
1,3-Dichlorobenzene	µg/kg	-	-	40 U	-	-	-
1,4-Dichlorobenzene	µg/kg	-	-	40 U	-	-	-
2-Butanone ⁽⁷⁾	µg/kg	-	-	270 U	-	-	-
2-Hexanone	µg/kg	-	-	40 U	-	-	-
4-Methyl-2-pentanone ⁽⁸⁾	µg/kg	-	-	40 U	-	-	-
Acetone	µg/kg	-	-	130 U	-	-	-
Benzene	µg/kg	-	-	240 ^{bc}	-	-	-
Bromodichloromethane	µg/kg	-	-	40 U	-	-	-
Bromoform	µg/kg	-	-	40 U	-	-	-
Bromomethane (Methyl bromide)	µg/kg	-	-	100 U	-	-	-
Carbon disulfide	µg/kg	-	-	73	-	-	-
Carbon tetrachloride	µg/kg	-	-	40 U	-	-	-
Chlorobenzene	µg/kg	-	-	40 U	-	-	-
Chloroethane	µg/kg	-	-	130 U	-	-	-
Chloroform (Trichloromethane)	µg/kg	-	-	40 U	-	-	-
Chloromethane (Methyl chloride)	µg/kg	-	-	130 U	-	-	-
cis-1,2-Dichloroethene	µg/kg	-	-	40 U	-	-	-
cis-1,3-Dichloropropene	µg/kg	-	-	40 U	-	-	-
Cyclohexane	µg/kg	-	-	290	-	-	-
Dibromochloromethane	µg/kg	-	-	40 U	-	-	-
Dichlorodifluoromethane (CFC-12)	µg/kg	-	-	40 U	-	-	-
Ethylbenzene	µg/kg	-	-	340	-	-	-
Isopropyl benzene	µg/kg	-	-	130	-	-	-
Methyl acetate	µg/kg	-	-	230 J	-	-	-
Methyl cyclohexane	µg/kg	-	-	840	-	-	-
Methyl tert butyl ether (MTBE)	µg/kg	-	-	40 U	-	-	-
Methylene chloride	µg/kg	-	-	40 U	-	-	-
Styrene	µg/kg	-	-	40 U	-	-	-
Tetrachloroethene	µg/kg	-	-	40 U	-	-	-
Toluene	µg/kg	-	-	1700	-	-	-
trans-1,2-Dichloroethene	µg/kg	-	-	40 U	-	-	-
trans-1,3-Dichloropropene	µg/kg	-	-	40 U	-	-	-
Trichloroethene	µg/kg	-	-	290 ^{bc}	-	-	-
Trichlorofluoromethane (CFC-11)	µg/kg	-	-	40 U	-	-	-
Trifluorotrichloroethane (Freon 113)	µg/kg	-	-	40 U	-	-	-
Vinyl chloride	µg/kg	-	-	40 U	-	-	-
Xylenes (total)	µg/kg	-	-	1600 ^d	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB269-13		SB269-13		SB269-13		SB269-13		SB270-13		SB270-13		SB270-13	
Sample Identification	S	SO-17360-082113-MR-126	SO-17360-082113-MR-128	SO-17360-082113-MR-129	SO-17360-082113-MR-127	SO-17360-082113-MR-130	SO-17360-082113-MR-131	SO-17360-082113-MR-132						
Sample Date		8/21/2013	8/21/2013	8/21/2013	8/21/2013	8/22/2013	8/21/2013	8/21/2013						
Sample Depth		(2-4) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(4-6) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(2-4) ft BGS						
Sample Type													Duplicate	
Metals														
	Units													
Antimony	µg/kg	-	-	-	-	-	-	85 J				77 J		
Arsenic	µg/kg	-	-	-	-	-	-	820				820		
Barium	µg/kg	-	-	-	-	-	-	7500				7500		
Beryllium	µg/kg	-	-	-	-	-	-	54 J				56 J		
Cadmium	µg/kg	-	-	-	-	-	-	38 J				38 J		
Chromium	µg/kg	-	-	-	-	-	-	2300				2300		
Cobalt	µg/kg	-	-	-	-	-	-	900 J				900		
Copper	µg/kg	-	-	-	-	-	-	4400				4400		
Iron	µg/kg	-	-	-	-	-	-	1900000				2000000		
Lead	µg/kg	-	-	-	-	-	-	2800				3400		
Manganese	µg/kg	-	-	-	-	-	-	86000				48000		
Mercury	µg/kg	-	-	-	-	-	-	3.3 J				3 J		
Molybdenum	µg/kg	-	-	-	-	-	-	560				250 J		
Nickel	µg/kg	-	-	-	-	-	-	4000				2900		
Selenium	µg/kg	-	-	-	-	-	-	330 U				370 U		
Silver	µg/kg	-	-	-	-	-	-	15 J				17 J		
Thallium	µg/kg	-	-	-	-	-	-	39 J				370 U		
Vanadium	µg/kg	-	-	-	-	-	-	3000				3200		
Zinc	µg/kg	-	-	-	-	-	-	13000				8400		
Polychlorinated Biphenyls (PCBs)														
Aroclor-1016 (PCB-1016)	µg/kg	-	-	-	-	-	-	-				-		
Aroclor-1221 (PCB-1221)	µg/kg	-	-	-	-	-	-	-				-		
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	-	-	-	-				-		
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	-	-	-	-				-		
Aroclor-1248 (PCB-1248)	µg/kg	-	-	-	-	-	-	-				-		
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	-	-	-	-				-		
Aroclor-1260 (PCB-1260)	µg/kg	-	-	-	-	-	-	-				-		
Total PCBs	µg/kg	-	-	-	-	-	-	-				-		

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB269-13	SB269-13	SB269-13	SB269-13	SB270-13	SB270-13	SB270-13
Sample Identification	S SO-17360-082113-MR-126	SO-17360-082113-MR-128	SO-17360-082113-MR-129	SO-17360-082213-MR-127	SO-17360-082113-MR-130	SO-17360-082113-MR-131	SO-17360-082113-MR-132
Sample Date	8/21/2013	8/21/2013	8/21/2013	8/22/2013	8/21/2013	8/21/2013	8/21/2013
Sample Depth	(2-4) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(4-6) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(2-4) ft BGS
Sample Type							Duplicate

Semi-Volatile Organic Compounds (SVOCs)

2,2'-Oxybis(1-chloropropane) ⁽⁵⁾	µg/kg	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrophenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2-Chloronaphthalene	µg/kg	-	-	-	-	-	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	-	-	-	-	-	-
2-Methylphenol	µg/kg	-	-	-	-	-	-
2-Nitroaniline	µg/kg	-	-	-	-	-	-
2-Nitrophenol	µg/kg	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-
3-Nitroaniline	µg/kg	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/kg	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/kg	-	-	-	-	-	-
4-Chloroaniline	µg/kg	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Methylphenol	µg/kg	-	-	-	-	-	-
4-Nitroaniline	µg/kg	-	-	-	-	-	-
4-Nitrophenol	µg/kg	-	-	-	-	-	-
Acenaphthene	µg/kg	-	-	-	-	-	-
Acenaphthylene	µg/kg	-	-	-	-	-	-
Acetophenone	µg/kg	-	-	-	-	-	-
Anthracene	µg/kg	-	-	-	-	-	-
Atrazine	µg/kg	-	-	-	-	-	-
Benzaldehyde	µg/kg	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	-	-	-	-	-	-
Benzo(a)pyrene	µg/kg	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/kg	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/kg	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	<i>SB269-13</i>	<i>SB269-13</i>	<i>SB269-13</i>	<i>SB269-13</i>	<i>SB270-13</i>	<i>SB270-13</i>	<i>SB270-13</i>
Sample Identification	<i>S SO-17360-082113-MR-126</i>	<i>SO-17360-082113-MR-128</i>	<i>SO-17360-082113-MR-129</i>	<i>SO-17360-082213-MR-127</i>	<i>SO-17360-082113-MR-130</i>	<i>SO-17360-082113-MR-131</i>	<i>SO-17360-082113-MR-132</i>
Sample Date	<i>8/21/2013</i>	<i>8/21/2013</i>	<i>8/21/2013</i>	<i>8/22/2013</i>	<i>8/21/2013</i>	<i>8/21/2013</i>	<i>8/21/2013</i>
Sample Depth	<i>(2-4) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(4-6) ft BGS</i>	<i>(0-2) ft BGS</i>	<i>(2-4) ft BGS</i>	<i>(2-4) ft BGS</i>
Sample Type							<i>Duplicate</i>

SVOs (continued)

bis(2-Chloroethyl)ether	µg/kg	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-
Caprolactam	µg/kg	-	-	-	-	-	-
Carbazole	µg/kg	-	-	-	-	-	-
Chrysene	µg/kg	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/kg	-	-	-	-	-	-
Dibenzofuran	µg/kg	-	-	-	-	-	-
Diethyl phthalate	µg/kg	-	-	-	-	-	-
Dimethyl phthalate	µg/kg	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-
Fluoranthene	µg/kg	-	-	-	-	-	-
Fluorene	µg/kg	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/kg	-	-	-	-	-	-
Hexachloroethane	µg/kg	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	-	-	-	-
Isophorone	µg/kg	-	-	-	-	-	-
Naphthalene	µg/kg	-	-	-	-	-	-
Nitrobenzene	µg/kg	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/kg	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-
Pentachlorophenol	µg/kg	-	-	-	-	-	-
Phenanthrene	µg/kg	-	-	-	-	-	-
Phenol	µg/kg	-	-	-	-	-	-
Pyrene	µg/kg	-	-	-	-	-	-

Volatile Organic Compounds (VOCs)

1,1,1-Trichloroethane	µg/kg	35 U	-	34 U	-	-	34 U	38 U
1,1,2,2-Tetrachloroethane	µg/kg	35 U	-	34 U	-	-	34 U	38 U
1,1,2-Trichloroethane	µg/kg	35 U	-	34 U	-	-	34 U	38 U
1,1-Dichloroethane	µg/kg	35 U	-	34 U	-	-	34 U	38 U
1,1-Dichloroethene	µg/kg	35 U	-	34 U	-	-	34 U	38 U
1,2,4-Trichlorobenzene	µg/kg	35 U	-	34 U	-	-	34 U	38 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	35 U	-	34 U	-	-	34 U	38 U

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB269-13		SB269-13		SB269-13		SB270-13		SB270-13		SB270-13	
Sample Identification	S	SO-17360-082113-MR-126	SO-17360-082113-MR-128	SO-17360-082113-MR-129	SO-17360-082213-MR-127	SO-17360-082113-MR-130	SO-17360-082113-MR-131	SO-17360-082113-MR-132				
Sample Date		8/21/2013	8/21/2013	8/21/2013	8/22/2013	8/21/2013	8/21/2013	8/21/2013				
Sample Depth		(2-4) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(4-6) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(2-4) ft BGS				
Sample Type												Duplicate
VOCs (continued)												
1,2-Dibromoethane ⁽⁶⁾	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
1,2-Dichlorobenzene	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
1,2-Dichloroethane	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
1,2-Dichloropropane	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
1,3-Dichlorobenzene	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
1,4-Dichlorobenzene	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
2-Butanone ⁽⁷⁾	µg/kg	230 U	-	230 U	-	-	220 U	250 U				
2-Hexanone	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
4-Methyl-2-pentanone ⁽⁸⁾	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
Acetone	µg/kg	120 U	-	110 U	-	-	110 U	130 U				
Benzene	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
Bromodichloromethane	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
Bromoform	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
Bromomethane (Methyl bromide)	µg/kg	88 U	-	86 U	-	-	84 U	95 U				
Carbon disulfide	µg/kg	35 U	-	110	-	-	34	38 U				
Carbon tetrachloride	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
Chlorobenzene	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
Chloroethane	µg/kg	120 U	-	110 U	-	-	110 U	130 U				
Chloroform (Trichloromethane)	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
Chloromethane (Methyl chloride)	µg/kg	120 U	-	110 U	-	-	110 U	130 U				
cis-1,2-Dichloroethene	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
cis-1,3-Dichloropropene	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
Cyclohexane	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
Dibromochloromethane	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
Dichlorodifluoromethane (CFC-12)	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
Ethylbenzene	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
Isopropyl benzene	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
Methyl acetate	µg/kg	210 J	-	230 U	-	-	220 U	190 J				
Methyl cyclohexane	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
Methyl tert butyl ether (MTBE)	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
Methylene chloride	µg/kg	35 U	-	170 ^{bc}	-	-	34 U	38 U				
Styrene	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
Tetrachloroethene	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
Toluene	µg/kg	18 J	-	34 U	-	-	34 U	38 U				
trans-1,2-Dichloroethene	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
trans-1,3-Dichloropropene	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
Trichloroethene	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
Trichlorofluoromethane (CFC-11)	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
Trifluorotrichloroethane (Freon 113)	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
Vinyl chloride	µg/kg	35 U	-	34 U	-	-	34 U	38 U				
Xylenes (total)	µg/kg	110 U	-	100 U	-	-	100 U	110 U				

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	<i>SB270-13</i>	<i>SB270-13</i>	<i>SB270-13</i>	<i>SB271-13</i>	<i>SB271-13</i>	<i>SB271-13</i>	<i>SB271-13</i>
Sample Identification	<i>S SO-17360-082113-MR-133</i>	<i>SO-17360-082113-MR-134</i>	<i>SO-17360-082113-MR-135</i>	<i>SO-17360-082213-MR-138</i>	<i>SO-17360-082213-MR-139</i>	<i>SO-17360-082213-MR-140</i>	<i>SO-17360-082613-EB-001</i>
Sample Date	<i>8/21/2013</i>	<i>8/21/2013</i>	<i>8/21/2013</i>	<i>8/22/2013</i>	<i>8/22/2013</i>	<i>8/22/2013</i>	<i>8/26/2013</i>
Sample Depth	<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(0-2) ft BGS</i>
Sample Type							

Metals**Units**

Antimony	µg/kg	2400	-	-	-	-	-
Arsenic	µg/kg	5700	-	-	-	-	-
Barium	µg/kg	77000	-	-	-	-	-
Beryllium	µg/kg	190 J	-	-	-	-	-
Cadmium	µg/kg	2900	-	-	-	-	-
Chromium	µg/kg	33000 ^{bcd}	-	-	-	-	-
Cobalt	µg/kg	4500	-	-	-	-	-
Copper	µg/kg	130000 ^d	-	-	-	-	-
Iron	µg/kg	25000000 ^{bc}	-	-	-	-	-
Lead	µg/kg	340000	-	-	-	-	-
Manganese	µg/kg	320000	-	-	-	-	-
Mercury	µg/kg	99	-	-	-	-	-
Molybdenum	µg/kg	22000 ^{bc}	-	-	-	-	-
Nickel	µg/kg	36000	-	-	-	-	-
Selenium	µg/kg	2000 U	-	-	-	-	-
Silver	µg/kg	640 J	-	-	-	-	-
Thallium	µg/kg	76 J	-	-	-	-	-
Vanadium	µg/kg	7100	-	-	-	-	-
Zinc	µg/kg	830000 ^d	-	-	-	-	-

Polychlorinated Biphenyls (PCBs)

Aroclor-1016 (PCB-1016)	µg/kg	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/kg	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/kg	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/kg	-	-	-	-	-	-
Total PCBs	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB270-13	SB270-13	SB270-13	SB271-13	SB271-13	SB271-13	SB271-13
Sample Identification	S SO-17360-082113-MR-133	SO-17360-082113-MR-134	SO-17360-082113-MR-135	SO-17360-082213-MR-138	SO-17360-082213-MR-139	SO-17360-082213-MR-140	SO-17360-082613-EB-001
Sample Date	8/21/2013	8/21/2013	8/21/2013	8/22/2013	8/22/2013	8/22/2013	8/26/2013
Sample Depth	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(0-2) ft BGS
Sample Type							

Semi-Volatile Organic Compounds (SVOCs)

2,2'-Oxybis(1-chloropropane) ⁽⁵⁾	µg/kg	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrophenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2-Chloronaphthalene	µg/kg	-	-	-	-	-	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	-	-	-	-	-	-
2-Methylphenol	µg/kg	-	-	-	-	-	-
2-Nitroaniline	µg/kg	-	-	-	-	-	-
2-Nitrophenol	µg/kg	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-
3-Nitroaniline	µg/kg	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/kg	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/kg	-	-	-	-	-	-
4-Chloroaniline	µg/kg	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Methylphenol	µg/kg	-	-	-	-	-	-
4-Nitroaniline	µg/kg	-	-	-	-	-	-
4-Nitrophenol	µg/kg	-	-	-	-	-	-
Acenaphthene	µg/kg	-	-	-	-	-	-
Acenaphthylene	µg/kg	-	-	-	-	-	-
Acetophenone	µg/kg	-	-	-	-	-	-
Anthracene	µg/kg	-	-	-	-	-	-
Atrazine	µg/kg	-	-	-	-	-	-
Benzaldehyde	µg/kg	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	-	-	-	-	-	-
Benzo(a)pyrene	µg/kg	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/kg	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/kg	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	<i>SB270-13</i>	<i>SB270-13</i>	<i>SB270-13</i>	<i>SB271-13</i>	<i>SB271-13</i>	<i>SB271-13</i>	<i>SB271-13</i>
Sample Identification	<i>S SO-17360-082113-MR-133</i>	<i>SO-17360-082113-MR-134</i>	<i>SO-17360-082113-MR-135</i>	<i>SO-17360-082213-MR-138</i>	<i>SO-17360-082213-MR-139</i>	<i>SO-17360-082213-MR-140</i>	<i>SO-17360-082613-EB-001</i>
Sample Date	<i>8/21/2013</i>	<i>8/21/2013</i>	<i>8/21/2013</i>	<i>8/22/2013</i>	<i>8/22/2013</i>	<i>8/22/2013</i>	<i>8/26/2013</i>
Sample Depth	<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(0-2) ft BGS</i>
Sample Type							

SVOCs (continued)

bis(2-Chloroethyl)ether	µg/kg	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-
Caprolactam	µg/kg	-	-	-	-	-	-
Carbazole	µg/kg	-	-	-	-	-	-
Chrysene	µg/kg	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/kg	-	-	-	-	-	-
Dibenzofuran	µg/kg	-	-	-	-	-	-
Diethyl phthalate	µg/kg	-	-	-	-	-	-
Dimethyl phthalate	µg/kg	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-
Fluoranthene	µg/kg	-	-	-	-	-	-
Fluorene	µg/kg	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/kg	-	-	-	-	-	-
Hexachloroethane	µg/kg	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	-	-	-	-
Isophorone	µg/kg	-	-	-	-	-	-
Naphthalene	µg/kg	-	-	-	-	-	-
Nitrobenzene	µg/kg	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/kg	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-
Pentachlorophenol	µg/kg	-	-	-	-	-	-
Phenanthrene	µg/kg	-	-	-	-	-	-
Phenol	µg/kg	-	-	-	-	-	-
Pyrene	µg/kg	-	-	-	-	-	-

Volatile Organic Compounds (VOCs)

1,1,1-Trichloroethane	µg/kg	51 U	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	51 U	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	51 U	-	-	-	-	-
1,1-Dichloroethane	µg/kg	51 U	-	-	-	-	-
1,1-Dichloroethene	µg/kg	51 U	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	51 U	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	51 U	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB270-13	SB270-13	SB270-13	SB271-13	SB271-13	SB271-13	SB271-13
Sample Identification	S SO-17360-082113-MR-133	SO-17360-082113-MR-134	SO-17360-082113-MR-135	SO-17360-082213-MR-138	SO-17360-082213-MR-139	SO-17360-082213-MR-140	SO-17360-082613-EB-001
Sample Date	8/21/2013	8/21/2013	8/21/2013	8/22/2013	8/22/2013	8/22/2013	8/26/2013
Sample Depth	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(0-2) ft BGS
Sample Type							
VOCs (continued)							
1,2-Dibromoethane ⁽⁶⁾	µg/kg	51 U	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	51 U	-	-	-	-	-
1,2-Dichloroethane	µg/kg	51 U	-	-	-	-	-
1,2-Dichloropropane	µg/kg	51 U	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	51 U	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	51 U	-	-	-	-	-
2-Butanone ⁽⁷⁾	µg/kg	340 U	-	-	-	-	-
2-Hexanone	µg/kg	51 U	-	-	-	-	-
4-Methyl-2-pentanone ⁽⁸⁾	µg/kg	51 U	-	-	-	-	-
Acetone	µg/kg	170 U	-	-	-	-	-
Benzene	µg/kg	51 U	-	-	-	-	-
Bromodichloromethane	µg/kg	51 U	-	-	-	-	-
Bromoform	µg/kg	51 U	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/kg	130 U	-	-	-	-	-
Carbon disulfide	µg/kg	140	-	-	-	-	-
Carbon tetrachloride	µg/kg	51 U	-	-	-	-	-
Chlorobenzene	µg/kg	51 U	-	-	-	-	-
Chloroethane	µg/kg	170 U	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg	51 U	-	-	-	-	-
Chloromethane (Methyl chloride)	µg/kg	170 U	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	51 U	-	-	-	-	-
cis-1,3-Dichloropropene	µg/kg	51 U	-	-	-	-	-
Cyclohexane	µg/kg	51 U	-	-	-	-	-
Dibromochloromethane	µg/kg	51 U	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	µg/kg	51 U	-	-	-	-	-
Ethylbenzene	µg/kg	51 U	-	-	-	-	-
Isopropyl benzene	µg/kg	51 U	-	-	-	-	-
Methyl acetate	µg/kg	360	-	-	-	-	-
Methyl cyclohexane	µg/kg	250	-	-	-	-	-
Methyl tert butyl ether (MTBE)	µg/kg	51 U	-	-	-	-	-
Methylene chloride	µg/kg	140 ^{bc}	-	-	-	-	-
Styrene	µg/kg	51 U	-	-	-	-	-
Tetrachloroethene	µg/kg	51 U	-	-	-	-	-
Toluene	µg/kg	51 U	-	-	-	-	-
trans-1,2-Dichloroethene	µg/kg	51 U	-	-	-	-	-
trans-1,3-Dichloropropene	µg/kg	51 U	-	-	-	-	-
Trichloroethene	µg/kg	7700 ^{bcdlg}	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	µg/kg	51 U	-	-	-	-	-
Trifluorotrichloroethane (Freon 113)	µg/kg	51 U	-	-	-	-	-
Vinyl chloride	µg/kg	51 U	-	-	-	-	-
Xylenes (total)	µg/kg	100 J	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location		<i>SB271-13</i>	<i>SB272-13</i>	<i>SB272-13</i>	<i>SB272-13</i>	<i>SB272-13</i>	<i>SB272-13</i>	<i>SB272-13</i>
Sample Identification	S	<i>SO-17360-082613-EB-002</i>	<i>SO-17360-082213-MR-141</i>	<i>SO-17360-082213-MR-142</i>	<i>SO-17360-082213-MR-143</i>	<i>SO-17360-082213-MR-144</i>	<i>SO-17360-082213-MR-145</i>	<i>SO-17360-082213-MR-146</i>
Sample Date		<i>8/26/2013</i>	<i>8/22/2013</i>	<i>8/22/2013</i>	<i>8/22/2013</i>	<i>8/22/2013</i>	<i>8/22/2013</i>	<i>8/22/2013</i>
Sample Depth		<i>(2-4) ft BGS</i>	<i>(0-2) ft BGS</i>	<i>(2-4) ft BGS</i>	<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>
Sample Type							<i>Duplicate</i>	
Metals		Units						
Antimony	µg/kg	-	-	-	-	-	-	-
Arsenic	µg/kg	-	-	-	-	-	-	-
Barium	µg/kg	-	-	-	-	-	-	-
Beryllium	µg/kg	-	-	-	-	-	-	-
Cadmium	µg/kg	-	-	-	-	-	-	-
Chromium	µg/kg	-	-	-	-	-	-	-
Cobalt	µg/kg	-	-	-	-	-	-	-
Copper	µg/kg	-	-	-	-	-	-	-
Iron	µg/kg	-	-	-	-	-	-	-
Lead	µg/kg	-	-	-	-	-	-	-
Manganese	µg/kg	-	-	-	-	-	-	-
Mercury	µg/kg	-	-	-	-	-	-	-
Molybdenum	µg/kg	-	-	-	-	-	-	-
Nickel	µg/kg	-	-	-	-	-	-	-
Selenium	µg/kg	-	-	-	-	-	-	-
Silver	µg/kg	-	-	-	-	-	-	-
Thallium	µg/kg	-	-	-	-	-	-	-
Vanadium	µg/kg	-	-	-	-	-	-	-
Zinc	µg/kg	-	-	-	-	-	-	-
Polychlorinated Biphenyls (PCBs)								
Aroclor-1016 (PCB-1016)	µg/kg	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/kg	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/kg	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/kg	-	-	-	-	-	-	-
Total PCBs	µg/kg	-	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	<i>SB271-13</i>	<i>SB272-13</i>	<i>SB272-13</i>	<i>SB272-13</i>	<i>SB272-13</i>	<i>SB272-13</i>	<i>SB272-13</i>
Sample Identification	<i>S SO-17360-082613-EB-002</i>	<i>SO-17360-082213-MR-141</i>	<i>SO-17360-082213-MR-142</i>	<i>SO-17360-082213-MR-143</i>	<i>SO-17360-082213-MR-144</i>	<i>SO-17360-082213-MR-145</i>	<i>SO-17360-082213-MR-146</i>
Sample Date	<i>8/26/2013</i>	<i>8/22/2013</i>	<i>8/22/2013</i>	<i>8/22/2013</i>	<i>8/22/2013</i>	<i>8/22/2013</i>	<i>8/22/2013</i>
Sample Depth	<i>(2-4) ft BGS</i>	<i>(0-2) ft BGS</i>	<i>(2-4) ft BGS</i>	<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>
Sample Type						<i>Duplicate</i>	

Semi-Volatile Organic Compounds (SVOCs)

2,2'-Oxybis(1-chloropropane) ⁽⁵⁾	µg/kg	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dichlorophenol	µg/kg	-	-	-	-	-	-
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrophenol	µg/kg	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/kg	-	-	-	-	-	-
2-Chloronaphthalene	µg/kg	-	-	-	-	-	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	-	-	-	-	-	-
2-Methylphenol	µg/kg	-	-	-	-	-	-
2-Nitroaniline	µg/kg	-	-	-	-	-	-
2-Nitrophenol	µg/kg	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-
3-Nitroaniline	µg/kg	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/kg	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/kg	-	-	-	-	-	-
4-Chloroaniline	µg/kg	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/kg	-	-	-	-	-	-
4-Methylphenol	µg/kg	-	-	-	-	-	-
4-Nitroaniline	µg/kg	-	-	-	-	-	-
4-Nitrophenol	µg/kg	-	-	-	-	-	-
Acenaphthene	µg/kg	-	-	-	-	-	-
Acenaphthylene	µg/kg	-	-	-	-	-	-
Acetophenone	µg/kg	-	-	-	-	-	-
Anthracene	µg/kg	-	-	-	-	-	-
Atrazine	µg/kg	-	-	-	-	-	-
Benzaldehyde	µg/kg	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	-	-	-	-	-	-
Benzo(a)pyrene	µg/kg	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/kg	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/kg	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	<i>SB271-13</i>	<i>SB272-13</i>	<i>SB272-13</i>	<i>SB272-13</i>	<i>SB272-13</i>	<i>SB272-13</i>	<i>SB272-13</i>
Sample Identification	<i>S SO-17360-082613-EB-002</i>	<i>SO-17360-082213-MR-141</i>	<i>SO-17360-082213-MR-142</i>	<i>SO-17360-082213-MR-143</i>	<i>SO-17360-082213-MR-144</i>	<i>SO-17360-082213-MR-145</i>	<i>SO-17360-082213-MR-146</i>
Sample Date	<i>8/26/2013</i>	<i>8/22/2013</i>	<i>8/22/2013</i>	<i>8/22/2013</i>	<i>8/22/2013</i>	<i>8/22/2013</i>	<i>8/22/2013</i>
Sample Depth	<i>(2-4) ft BGS</i>	<i>(0-2) ft BGS</i>	<i>(2-4) ft BGS</i>	<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>
Sample Type						<i>Duplicate</i>	

SVOs (continued)

bis(2-Chloroethyl)ether	µg/kg	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-
Caprolactam	µg/kg	-	-	-	-	-	-
Carbazole	µg/kg	-	-	-	-	-	-
Chrysene	µg/kg	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/kg	-	-	-	-	-	-
Dibenzofuran	µg/kg	-	-	-	-	-	-
Diethyl phthalate	µg/kg	-	-	-	-	-	-
Dimethyl phthalate	µg/kg	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-
Fluoranthene	µg/kg	-	-	-	-	-	-
Fluorene	µg/kg	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/kg	-	-	-	-	-	-
Hexachloroethane	µg/kg	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	-	-	-	-
Isophorone	µg/kg	-	-	-	-	-	-
Naphthalene	µg/kg	-	-	-	-	-	-
Nitrobenzene	µg/kg	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/kg	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-
Pentachlorophenol	µg/kg	-	-	-	-	-	-
Phenanthrene	µg/kg	-	-	-	-	-	-
Phenol	µg/kg	-	-	-	-	-	-
Pyrene	µg/kg	-	-	-	-	-	-

Volatile Organic Compounds (VOCs)

1,1,1-Trichloroethane	µg/kg	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	-	-	-	-	-	-
1,1-Dichloroethane	µg/kg	-	-	-	-	-	-
1,1-Dichloroethene	µg/kg	-	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB271-13	SB272-13	SB272-13	SB272-13	SB272-13	SB272-13	SB272-13
Sample Identification	S SO-17360-082613-EB-002	SO-17360-082213-MR-141	SO-17360-082213-MR-142	SO-17360-082213-MR-143	SO-17360-082213-MR-144	SO-17360-082213-MR-145	SO-17360-082213-MR-146
Sample Date	8/26/2013	8/22/2013	8/22/2013	8/22/2013	8/22/2013	8/22/2013	8/22/2013
Sample Depth	(2-4) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Sample Type						Duplicate	
VOCs (continued)							
1,2-Dibromoethane ⁽⁶⁾	µg/kg	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	-	-	-	-	-	-
1,2-Dichloroethane	µg/kg	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	-	-	-	-	-	-
2-Butanone ⁽⁷⁾	µg/kg	-	-	-	-	-	-
2-Hexanone	µg/kg	-	-	-	-	-	-
4-Methyl-2-pentanone ⁽⁸⁾	µg/kg	-	-	-	-	-	-
Acetone	µg/kg	-	-	-	-	-	-
Benzene	µg/kg	-	-	-	-	-	-
Bromodichloromethane	µg/kg	-	-	-	-	-	-
Bromoform	µg/kg	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/kg	-	-	-	-	-	-
Carbon disulfide	µg/kg	-	-	-	-	-	-
Carbon tetrachloride	µg/kg	-	-	-	-	-	-
Chlorobenzene	µg/kg	-	-	-	-	-	-
Chloroethane	µg/kg	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg	-	-	-	-	-	-
Chloromethane (Methyl chloride)	µg/kg	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-
cis-1,3-Dichloropropene	µg/kg	-	-	-	-	-	-
Cyclohexane	µg/kg	-	-	-	-	-	-
Dibromochloromethane	µg/kg	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	µg/kg	-	-	-	-	-	-
Ethylbenzene	µg/kg	-	-	-	-	-	-
Isopropyl benzene	µg/kg	-	-	-	-	-	-
Methyl acetate	µg/kg	-	-	-	-	-	-
Methyl cyclohexane	µg/kg	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	µg/kg	-	-	-	-	-	-
Methylene chloride	µg/kg	-	-	-	-	-	-
Styrene	µg/kg	-	-	-	-	-	-
Tetrachloroethene	µg/kg	-	-	-	-	-	-
Toluene	µg/kg	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-
trans-1,3-Dichloropropene	µg/kg	-	-	-	-	-	-
Trichloroethene	µg/kg	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	µg/kg	-	-	-	-	-	-
Trifluorotrichloroethane (Freon 113)	µg/kg	-	-	-	-	-	-
Vinyl chloride	µg/kg	-	-	-	-	-	-
Xylenes (total)	µg/kg	-	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB273-13	SB273-13	SB273-13	SB273-13	SB273-13
Sample Identification	S SO-17360-082213-MR-147	SO-17360-082213-MR-148	SO-17360-082213-MR-149	SO-17360-082213-MR-150	SO-17360-082213-MR-151
Sample Date	8/22/2013	8/22/2013	8/22/2013	8/22/2013	8/22/2013
Sample Depth	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Sample Type					

Metals**Units**

Antimony	µg/kg	-	160 J	1000 J	-	-
Arsenic	µg/kg	-	1800	2800 J	-	-
Barium	µg/kg	-	16000	43000	-	-
Beryllium	µg/kg	-	110 J	7200 U	-	-
Cadmium	µg/kg	-	260 J	89000 ^{bcd}	-	-
Chromium	µg/kg	-	7400	12000 J	-	-
Cobalt	µg/kg	-	2200	3000 J	-	-
Copper	µg/kg	-	11000	8500000 ^{bcd}	-	-
Iron	µg/kg	-	4600000	6800000	-	-
Lead	µg/kg	-	11000	33000	-	-
Manganese	µg/kg	-	140000	180000	-	-
Mercury	µg/kg	-	10 J	9.2 J	-	-
Molybdenum	µg/kg	-	700 J	18000 U	-	-
Nickel	µg/kg	-	7600	17000 J	-	-
Selenium	µg/kg	-	1700 U	18000 U	-	-
Silver	µg/kg	-	57 J	410 J	-	-
Thallium	µg/kg	-	1700 U	18000 U	-	-
Vanadium	µg/kg	-	6600	10000 J	-	-
Zinc	µg/kg	-	24000	1900000 ^d	-	-

Polychlorinated Biphenyls (PCBs)

Aroclor-1016 (PCB-1016)	µg/kg	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/kg	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/kg	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/kg	-	-	-	-	-
Total PCBs	µg/kg	-	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB273-13	SB273-13	SB273-13	SB273-13	SB273-13
Sample Identification	S SO-17360-082213-MR-147	SO-17360-082213-MR-148	SO-17360-082213-MR-149	SO-17360-082213-MR-150	SO-17360-082213-MR-151
Sample Date	8/22/2013	8/22/2013	8/22/2013	8/22/2013	8/22/2013
Sample Depth	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Sample Type					

Semi-Volatile Organic Compounds (SVOCs)

2,2'-Oxybis(1-chloropropane) ⁽⁵⁾	µg/kg	-	-	-	-
2,4,5-Trichlorophenol	µg/kg	-	-	-	-
2,4,6-Trichlorophenol	µg/kg	-	-	-	-
2,4-Dichlorophenol	µg/kg	-	-	-	-
2,4-Dimethylphenol	µg/kg	-	-	-	-
2,4-Dinitrophenol	µg/kg	-	-	-	-
2,4-Dinitrotoluene	µg/kg	-	-	-	-
2,6-Dinitrotoluene	µg/kg	-	-	-	-
2-Chloronaphthalene	µg/kg	-	-	-	-
2-Chlorophenol	µg/kg	-	-	-	-
2-Methylnaphthalene	µg/kg	-	-	-	-
2-Methylphenol	µg/kg	-	-	-	-
2-Nitroaniline	µg/kg	-	-	-	-
2-Nitrophenol	µg/kg	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-
3-Nitroaniline	µg/kg	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/kg	-	-	-	-
4-Bromophenyl phenyl ether	µg/kg	-	-	-	-
4-Chloro-3-methylphenol	µg/kg	-	-	-	-
4-Chloroaniline	µg/kg	-	-	-	-
4-Chlorophenyl phenyl ether	µg/kg	-	-	-	-
4-Methylphenol	µg/kg	-	-	-	-
4-Nitroaniline	µg/kg	-	-	-	-
4-Nitrophenol	µg/kg	-	-	-	-
Acenaphthene	µg/kg	-	-	-	-
Acenaphthylene	µg/kg	-	-	-	-
Acetophenone	µg/kg	-	-	-	-
Anthracene	µg/kg	-	-	-	-
Atrazine	µg/kg	-	-	-	-
Benzaldehyde	µg/kg	-	-	-	-
Benzo(a)anthracene	µg/kg	-	-	-	-
Benzo(a)pyrene	µg/kg	-	-	-	-
Benzo(b)fluoranthene	µg/kg	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	-	-	-	-
Benzo(k)fluoranthene	µg/kg	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-
bis(2-Chloroethoxy)methane	µg/kg	-	-	-	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	<i>SB273-13</i>	<i>SB273-13</i>	<i>SB273-13</i>	<i>SB273-13</i>	<i>SB273-13</i>
Sample Identification	<i>S SO-17360-082213-MR-147</i>	<i>SO-17360-082213-MR-148</i>	<i>SO-17360-082213-MR-149</i>	<i>SO-17360-082213-MR-150</i>	<i>SO-17360-082213-MR-151</i>
Sample Date	<i>8/22/2013</i>	<i>8/22/2013</i>	<i>8/22/2013</i>	<i>8/22/2013</i>	<i>8/22/2013</i>
Sample Depth	<i>(0-2) ft BGS</i>	<i>(2-4) ft BGS</i>	<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>
Sample Type					

SVOCs (continued)

bis(2-Chloroethyl)ether	µg/kg	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-
Caprolactam	µg/kg	-	-	-	-
Carbazole	µg/kg	-	-	-	-
Chrysene	µg/kg	-	-	-	-
Dibenz(a,h)anthracene	µg/kg	-	-	-	-
Dibenzofuran	µg/kg	-	-	-	-
Diethyl phthalate	µg/kg	-	-	-	-
Dimethyl phthalate	µg/kg	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-
Fluoranthene	µg/kg	-	-	-	-
Fluorene	µg/kg	-	-	-	-
Hexachlorobenzene	µg/kg	-	-	-	-
Hexachlorobutadiene	µg/kg	-	-	-	-
Hexachlorocyclopentadiene	µg/kg	-	-	-	-
Hexachloroethane	µg/kg	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	-	-
Isophorone	µg/kg	-	-	-	-
Naphthalene	µg/kg	-	-	-	-
Nitrobenzene	µg/kg	-	-	-	-
N-Nitrosodi-n-propylamine	µg/kg	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	-
Pentachlorophenol	µg/kg	-	-	-	-
Phenanthrene	µg/kg	-	-	-	-
Phenol	µg/kg	-	-	-	-
Pyrene	µg/kg	-	-	-	-

Volatile Organic Compounds (VOCs)

1,1,1-Trichloroethane	µg/kg	-	35 U	34 U	-
1,1,2,2-Tetrachloroethane	µg/kg	-	35 U	34 U	-
1,1,2-Trichloroethane	µg/kg	-	35 U	34 U	-
1,1-Dichloroethane	µg/kg	-	35 U	34 U	-
1,1-Dichloroethene	µg/kg	-	35 U	34 U	-
1,2,4-Trichlorobenzene	µg/kg	-	35 U	34 U	-
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	-	35 U	34 U	-

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MI

Sample Location	SB273-13	SB273-13	SB273-13	SB273-13	SB273-13
Sample Identification	S SO-17360-082213-MR-147	SO-17360-082213-MR-148	SO-17360-082213-MR-149	SO-17360-082213-MR-150	SO-17360-082213-MR-151
Sample Date	8/22/2013	8/22/2013	8/22/2013	8/22/2013	8/22/2013
Sample Depth	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Sample Type					

VOCs (continued)

1,2-Dibromoethane ⁽⁶⁾	µg/kg	-	35 U	34 U	-	-
1,2-Dichlorobenzene	µg/kg	-	35 U	34 U	-	-
1,2-Dichloroethane	µg/kg	-	35 U	34 U	-	-
1,2-Dichloropropane	µg/kg	-	35 U	34 U	-	-
1,3-Dichlorobenzene	µg/kg	-	35 U	34 U	-	-
1,4-Dichlorobenzene	µg/kg	-	35 U	34 U	-	-
2-Butanone ⁽⁷⁾	µg/kg	-	230 U	230 U	-	-
2-Hexanone	µg/kg	-	35 U	34 U	-	-
4-Methyl-2-pentanone ⁽⁸⁾	µg/kg	-	35 U	34 U	-	-
Acetone	µg/kg	-	120 U	110 U	-	-
Benzene	µg/kg	-	35 U	34 U	-	-
Bromodichloromethane	µg/kg	-	35 U	34 U	-	-
Bromoform	µg/kg	-	35 U	34 U	-	-
Bromomethane (Methyl bromide)	µg/kg	-	87 U	85 U	-	-
Carbon disulfide	µg/kg	-	43	61	-	-
Carbon tetrachloride	µg/kg	-	35 U	34 U	-	-
Chlorobenzene	µg/kg	-	35 U	34 U	-	-
Chloroethane	µg/kg	-	120 U	110 U	-	-
Chloroform (Trichloromethane)	µg/kg	-	35 U	34 U	-	-
Chloromethane (Methyl chloride)	µg/kg	-	120 U	110 U	-	-
cis-1,2-Dichloroethene	µg/kg	-	35 U	34 U	-	-
cis-1,3-Dichloropropene	µg/kg	-	35 U	34 U	-	-
Cyclohexane	µg/kg	-	35 U	34 U	-	-
Dibromochloromethane	µg/kg	-	35 U	34 U	-	-
Dichlorodifluoromethane (CFC-12)	µg/kg	-	35 U	34 U	-	-
Ethylbenzene	µg/kg	-	35 U	34 U	-	-
Isopropyl benzene	µg/kg	-	35 U	34 U	-	-
Methyl acetate	µg/kg	-	230 U	130 J	-	-
Methyl cyclohexane	µg/kg	-	35 U	34 U	-	-
Methyl tert butyl ether (MTBE)	µg/kg	-	35 U	34 U	-	-
Methylene chloride	µg/kg	-	35 U	31 J	-	-
Styrene	µg/kg	-	35 U	34 U	-	-
Tetrachloroethene	µg/kg	-	35 U	34 U	-	-
Toluene	µg/kg	-	35 U	34 U	-	-
trans-1,2-Dichloroethene	µg/kg	-	35 U	34 U	-	-
trans-1,3-Dichloropropene	µg/kg	-	35 U	34 U	-	-
Trichloroethene	µg/kg	-	160 ^{bc}	210 ^{bc}	-	-
Trichlorofluoromethane (CFC-11)	µg/kg	-	35 U	34 U	-	-
Trifluorotrichloroethane (Freon 113)	µg/kg	-	35 U	34 U	-	-
Vinyl chloride	µg/kg	-	35 U	34 U	-	-
Xylenes (total)	µg/kg	-	100 U	100 U	-	-

TABLE 3

**SUMMARY OF ANALYTICAL RESULTS FOR BOREHOLE WATER SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

Sample Location		Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic Cleanup Criteria ⁽¹⁾									TW254-13		TW254-13	
Sample Identification		Residential	Non-Residential	Groundwater	Residential Groundwater	Non-Residential Groundwater	Groundwater	Water	Flammability and	Acute	WG-17360-082113-EB-122		WG-17360-082113-EB-123	
Sample Date		Drinking	Drinking	Surface Water	Volatilization to	Volatilization to	Contact	Solubility	Explosivity	Inhalation	8/21/2013		8/21/2013	
Sample Type		Water	Water	Interface ⁽²⁾	Indoor Air Inhalation	Indoor Air Inhalation			Screening Levels	Screening Levels			Duplicate	
		a	b	c	d	e	f	g	h	i				
Semi-Volatile Organic Compounds (SVOCs)		Units												
2,2'-Oxybis(1-chloropropane) ⁽³⁾	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U		5.0 U	
2,4,5-Trichlorophenol	µg/L	730	2100	NA	NLV	NLV	170000	1200000	ID	ID	5.0 U		5.0 U	
2,4,6-Trichlorophenol	µg/L	120	470	5	NLV	NLV	10000	800000	ID	ID	5.0 U		5.0 U	
2,4-Dichlorophenol	µg/L	73	210	11	NLV	NLV	48000	4500000	ID	ID	10 U		10 U	
2,4-Dimethylphenol	µg/L	370	1000	380	NLV	NLV	520000	7870000	ID	ID	5.0 U		5.0 U	
2,4-Dinitrophenol	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U		5.0 U	
2,4-Dinitrotoluene	µg/L	7.7	32	NA	NLV	NLV	8600	270000	ID	ID	5.0 U		5.0 U	
2,6-Dinitrotoluene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U		5.0 U	
2-Chloronaphthalene	µg/L	1800	5200	NA	ID	ID	6700	6740	ID	ID	5.0 U		5.0 U	
2-Chlorophenol	µg/L	45	130	18	ID	ID	94000	22000000	ID	ID	5.0 U		5.0 U	
2-Methylnaphthalene	µg/L	260	750	19	25000	25000	25000	24600	ID	ID	5.0 U		5.0 U	
2-Methylphenol	µg/L	370	1000	30	NLV	NLV	810000	28000000	NA	ID	5.0 U		5.0 U	
2-Nitroaniline	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	20 U		20 U	
2-Nitrophenol	µg/L	20	58	ID	NLV	NLV	79000	2500000	ID	ID	5.0 U		5.0 U	
3,3'-Dichlorobenzidine	µg/L	1.1	4.3	0.3	NLV	NLV	180	3110	ID	ID	5.0 U		5.0 U	
3-Nitroaniline	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	20 U		20 U	
4,6-Dinitro-2-methylphenol	µg/L	20	20	NA	NLV	NLV	9500	200000	ID	ID	20 U		20 U	
4-Bromophenyl phenyl ether	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U		5.0 U	
4-Chloro-3-methylphenol	µg/L	150	420	7.4	NLV	NLV	79000	3900000	ID	ID	5.0 U		5.0 U	
4-Chloroaniline	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	20 U		20 U	
4-Chlorophenyl phenyl ether	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U		5.0 U	
4-Methylphenol	µg/L	370	1000	30	NLV	NLV	810000	28000000	NA	ID	5.0 U		5.0 U	
4-Nitroaniline	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	20 U		20 U	
4-Nitrophenol	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	20 U		20 U	
Acenaphthene	µg/L	1300	3800	38	4200	4200	4200	4240	ID	ID	5.0 U		5.0 U	
Acenaphthylene	µg/L	52	150	ID	3900	3900	3900	3930	ID	ID	5.0 U		5.0 U	
Acetophenone	µg/L	1500	4400		6100000	6100000	6100000	6100000	ID	ID	1.0 U		1.0 U	
Anthracene	µg/L	43	43	ID	43	43	43	43.4	ID	ID	5.0 U		5.0 U	
Atrazine	µg/L	3	3	7.3	NLV	NLV	5400	70000	ID	ID	1.0 U		1.0 U	
Benzaldehyde	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U		1.0 U	
Benzo(a)anthracene	µg/L	2.1	8.5	ID	NLV	NLV	9.4	9.4	ID	ID	5.0 U		5.0 U	
Benzo(a)pyrene	µg/L	5	5	ID	NLV	NLV	1	1.62	ID	ID	5.0 U		5.0 U	
Benzo(b)fluoranthene	µg/L	1.5	1.5	ID	ID	ID	1.5	1.5	ID	ID	5.0 U		5.0 U	
Benzo(g,h,i)perylene	µg/L	1	1	NA	NLV	NLV	1	0.26	ID	ID	5.0 U		5.0 U	
Benzo(k)fluoranthene	µg/L	1	1	NA	NLV	NLV	1	0.8	ID	ID	5.0 U		5.0 U	
Biphenyl (1,1-Biphenyl)	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U		5.0 U	
bis(2-Chloroethoxy)methane	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U		5.0 U	
bis(2-Chloroethyl)ether	µg/L	2	8.3	1	38000	210000	5700	17200000	17000000		5.0 U		5.0 U	
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	6	6	25	NLV	NLV	320	340	NA	340	5.0 U		4.1 J	
Butyl benzylphthalate (BBP)	µg/L	1200	2700	67	NLV	NLV	2700	2690	ID	ID	5.0 U		5.0 U	
Caprolactam	µg/L	5800	17000		NLV	NLV	390000000	5250000000	NA	1000000000	10 U		10 U	

TABLE 3

**SUMMARY OF ANALYTICAL RESULTS FOR BOREHOLE WATER SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

Sample Location	Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic Cleanup Criteria ⁽¹⁾									TW254-13	TW254-13
Sample Identification	Residential	Non-Residential	Groundwater	Residential Groundwater	Non-Residential Groundwater	Groundwater	Water	Flammability and	Acute	WG-17360-082113-EB-122	WG-17360-082113-EB-123
Sample Date	Drinking	Drinking	Surface Water	Volatilization to	Volatilization to	Contact	Solubility	Explosivity	Inhalation	8/21/2013	8/21/2013
Sample Type	Water	Water	Interface ⁽²⁾	Indoor Air Inhalation	Indoor Air Inhalation			Screening Levels	Screening Levels		Duplicate
	a	b	c	d	e	f	g	h	i		
SVOCs (cont'd)											
Carbazole	µg/L	85	350	10	NLV	NLV	7400	7480	ID	ID	10 U
Chrysene	µg/L	1.6	1.6	ID	ID	ID	1.6	1.6	ID	ID	5.0 U
Dibenz(a,h)anthracene	µg/L	2	2	ID	NLV	NLV	2	2.49	ID	ID	5.0 U
Dibenzofuran	µg/L	ID	ID	4	10000	10000	ID	10000	ID	ID	5.0 U
Diethyl phthalate	µg/L	5500	16000	110	NLV	NLV	1100000	1080000	NA	ID	2.4 J
Dimethyl phthalate	µg/L	73000	210000	NA	NLV	NLV	4200000	4190000	NA	ID	20 U
Di-n-butylphthalate (DBP)	µg/L	880	2500	9.7	NLV	NLV	11000	11200	NA	ID	5.0 U
Di-n-octyl phthalate (DnOP)	µg/L	130	380	ID	NLV	NLV	400	3000	ID	ID	5.0 U
Fluoranthene	µg/L	210	210	1.6	210	210	210	206	ID	ID	5.0 U
Fluorene	µg/L	880	2000	12	2000	2000	2000	1980	ID	ID	5.0 U
Hexachlorobenzene	µg/L	1	1	0.2	440	3000	4.6	6200	ID	ID	5.0 U
Hexachlorobutadiene	µg/L	15	42	0.053	1600	3200	400	3230	ID	ID	5.0 U
Hexachlorocyclopentadiene	µg/L	50	50	ID	130	420	1600	1800	ID	ID	20 U
Hexachloroethane	µg/L	7.3	21	6.7	27000	50000	1900	50000	ID	ID	5.0 U
Indeno(1,2,3-cd)pyrene	µg/L	2	2	ID	NLV	NLV	2	0.022	ID	ID	5.0 U
Isophorone	µg/L	770	3100	1300	NLV	NLV	990000	12000000	NA	12000000	5.0 U
Naphthalene	µg/L	520	1500	11	31000	31000	31000	31000	NA	31000	5.0 U
Nitrobenzene	µg/L	3.4	9.6	180	280000	550000	11000	2090000	NA	ID	5.0 U
N-Nitrosodi-n-propylamine	µg/L	5	5	NA	NLV	NLV	360	9890000	ID	ID	5.0 U
N-Nitrosodiphenylamine	µg/L	270	1100	NA	NLV	NLV	35000	35100	ID	ID	5.0 U
Pentachlorophenol	µg/L	1	1	1.8	NLV	NLV	200	1850000	ID	ID	20 U
Phenanthrene	µg/L	52	150	2	1000	1000	1000	1000	ID	ID	5.0 U
Phenol	µg/L	4400	13000	450	NLV	NLV	29000000	82800000	NA	ID	5.0 U
Pyrene	µg/L	140	140	ID	140	140	140	135	ID	ID	5.0 U
Volatile Organic Compounds (VOCs)											
1,1,1-Trichloroethane	µg/L	200	200	89	660000	1300000	1300000	1330000	ID	1300000	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	8.5	35	78	12000	77000	4700	2970000	ID	ID	1.0 U
1,1,2-Trichloroethane	µg/L	5	5	330	17000	110000	21000	4420000	NA	ID	1.0 U
1,1-Dichloroethane	µg/L	880	2500	740	1000000	2300000	2400000	5060000	380000	ID	1.0 U
1,1-Dichloroethene	µg/L	7	7	130	200	1300	11000	2250000	97000	140000	1.0 U
1,2,4-Trichlorobenzene	µg/L	70	70	99	300000	300000	19000	300000	NA	300000	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.2	0.2	NA	220	1200	390	1230	NA	ID	1.0 U
1,2-Dibromoethane ⁽⁴⁾	µg/L	0.05	0.05	5.7	2400	15000	25	4200000	ID	ID	1.0 U
1,2-Dichlorobenzene	µg/L	600	600	13	160000	160000	160000	156000	NA	160000	1.0 U
1,2-Dichloroethane	µg/L	5	5	360	59000	59000	19000	8520000	2500000	ID	1.0 U
1,2-Dichloropropane	µg/L	5	5	230	16000	36000	16000	2800000	550000	2800000	1.0 U
1,3-Dichlorobenzene	µg/L	6.6	19	28	18000	41000	2000	111000	ID	ID	1.0 U
1,4-Dichlorobenzene	µg/L	75	75	17	16000	74000	6400	73800	NA	ID	1.0 U
2-Butanone ⁽⁵⁾	µg/L	13000	38000	2200	240000000	240000000	240000000	240000000	ID	240000000	25 U
2-Hexanone	µg/L	1000	2900	ID	4200000	8700000	5200000	16000000	NA	ID	50 U
4-Methyl-2-pentanone ⁽⁶⁾	µg/L	1800	5200	ID	20000000	20000000	13000000	20000000	ID	20000000	50 U
Acetone	µg/L	730	2100	1700	1000000000	1000000000	31000000	1000000000	15000000	1000000000	50 U
Benzene	µg/L	5	5	200	35000	5600	11000	1750000	68000	67000	1.0 U
Bromodichloromethane	µg/L	80	80	ID	4800	37000	14000	6740000	ID	ID	1.0 U
Bromoform	µg/L	80	80	ID	4700000	3100000	140000	3100000	ID	ID	1.0 U
Bromomethane (Methyl bromide)	µg/L	10	29	35	4000	9000	70000	14500000	ID	ID	5.0 U
Carbon disulfide	µg/L	800	2300	ID	250000	550000	1200000	1190000	13000	ID	5.0 U

TABLE 3

**SUMMARY OF ANALYTICAL RESULTS FOR BOREHOLE WATER SAMPLES
SITE-WIDE INVESTIGATION - STAGE V
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

Sample Location	Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic Cleanup Criteria ⁽¹⁾									TW254-13	TW254-13
Sample Identification	Residential	Non-Residential	Groundwater	Residential Groundwater	Non-Residential Groundwater	Groundwater	Water	Flammability and	Acute	WG-17360-082113-EB-122	WG-17360-082113-EB-123
Sample Date	Drinking	Drinking	Surface Water	Volatilization to	Volatilization to	Contact	Solubility	Explosivity	Inhalation	8/21/2013	8/21/2013
Sample Type	Water	Water	Interface ⁽²⁾	Indoor Air Inhalation	Indoor Air Inhalation			Screening Levels	Screening Levels		Duplicate
	a	b	c	d	e	f	g	h	i		
VOCs (cont'd)											
Carbon tetrachloride	µg/L	5	5	45	370	2400	4600	793000	ID	96000	1.0 U
Chlorobenzene	µg/L	100	100	25	210000	470000	86000	472000	160000	ID	1.0 U
Chloroethane	µg/L	430	1700	1100	5700000	5700000	440000	5740000	110000	ID	5.0 U
Chloroform (Trichloromethane)	µg/L	80	80	350	28000	180000	150000	7920000	ID	ID	1.0 U
Chloromethane (Methyl chloride)	µg/L	260	1100	ID	8600	45000	490000	6340000	36000	210000	5.0 U
cis-1,2-Dichloroethene	µg/L	70	70	620	93000	210000	200000	3500000	530000	ID	1.0 U
cis-1,3-Dichloropropene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U
Cyclohexane	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U
Dibromochloromethane	µg/L	80	80	ID	14000	110000	18000	2600000	ID	ID	5.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1700	4800	ID	220000	300000	300000	300000	ID	ID	5.0 U
Ethylbenzene	µg/L	74	74	18	110000	170000	170000	169000	43000	170000	1.0 U
Isopropyl benzene	µg/L	800	2300	28	56000	56000	56000	56000	29000	ID	5.0 U
Methyl acetate	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Methyl cyclohexane	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	40	40	7100	47000000	47000000	610000	46800000	ID	ID	5.0 U
Methylene chloride	µg/L	5	5	1500	220000	1400000	220000	17000000	ID	ID	5.0 U
Styrene	µg/L	100	100	80	170000	310000	9700	310000	140000	310000	1.0 U
Tetrachloroethene	µg/L	5	5	60	25000	170000	12000	200000	ID	200000	1.0 U
Toluene	µg/L	790	790	270	530000	530000	530000	526000	61000	ID	1.0 U
trans-1,2-Dichloroethene	µg/L	100	100	1500	85000	200000	220000	6300000	230000	ID	1.0 U
trans-1,3-Dichloropropene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U
Trichloroethene	µg/L	5	5	200	2200	4900	22000	1100000	ID	1100000	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	2600	7300		1100000	1100000	1100000	1100000	ID	1100000	1.0 U
Trifluorotrichloroethane (Freon 113)	µg/L	170000	170000	32	170000	170000	170000	170000	ID	170000	1.0 U
Vinyl chloride	µg/L	2	2	13	1100	13000	1000	2760000	33000	ID	1.0 U
Xylenes (total)	µg/L	280	280	41	190000	190000	190000	186000	70000	190000	3.0 U

Notes:

⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 9/28/2012, pursuant to 1994 PA 451 as amended.

⁽²⁾ Carbonate Hardness of 344 mg/L was used to calculate Groundwater Surface Water Interface Criteria.

⁽³⁾ 2,2'-Oxybis(1-chloropropane) also known as bis(2-Chloroisopropyl) ether)

⁽⁴⁾ 1,2-Dibromoethane also known as (Ethylene dibromide)

⁽⁵⁾ 2-Butanone also known as (Methyl ethyl ketone) (MEK)

⁽⁶⁾ 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)

-- Parameter was not analyzed.

U - Not present at or above the associated value.

J - Estimated concentration.

UJ - Estimated reporting limit.

ID - Insufficient data to develop criterion.

NA - A criterion or value is not available or, in the case of background and CAS numbers, not applicable.

NLL - Hazardous substance is not likely to leach under most soil conditions.

NLV - Hazardous substance is not likely to volatilize under most conditions.

Exceeds Generic Cleanup Criteria. Superscript letter notes the criterion exceeded.

Attachment A

Stratigraphic Soil Boring Logs and Well Construction Details



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB246-13
DATE COMPLETED: August 20, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	P/D (ppm)
	NORTHING: 512171.27 EASTING: 12773013.54 GROUND SURFACE	675.52						
2	SP/GP-SAND AND GRAVEL, trace crushed concrete, loose, fine sand, poorly graded	675.02		0-2' -089				0.3
4	SP-SAND, trace fine gravel, compact, fine to medium sand, poorly graded, brown, moist - trace slag at 3.5ft BGS			1DP 2-4' -090/ 091		80		0.5
6				4-6' -092				0.8
8	SP-SAND, compact, fine sand, poorly graded, brown, moist	668.02		6-8' -093 2DP		80		0.6
10	PT-PEAT, trace silt and fine sand, soft, fibrous, black, moist	666.52		8-10' -094				0.0
	END OF BOREHOLE @ 10.0ft BGS	665.52						
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB247-13
DATE COMPLETED: August 20, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	P/D (ppm)
	NORTHING: 512141.26 EASTING: 12773031.42 GROUND SURFACE	675.34						
2	SP/GP-SAND AND GRAVEL (FILL), trace brick debris, loose, fine to coarse sand, fine to coarse gravel, poorly graded, light brown, moist	673.34		0-2' -085				0.0
4	SP-SAND, trace fine gravel, loose, fine to medium sand, poorly graded, brown, moist	670.34		1DP 2-4' -086		80		0.0
6	- slag at 5.0ft BGS	670.34		4-6' -087				0.0
6	FILL, with slag, loose, fine to medium sand, poorly graded, black, moist	668.84		6-8' -088 2DP		60		0.0
8	SP-SAND, trace slag, trace fine to medium gravel, loose, fine to medium sand, poorly graded, dark brown, moist	667.34		8-10' -089				0.0
10	SP-SAND, compact, fine grained, poorly graded, brown, moist	665.59						
10	PT-PEAT, trace silt and fine sand, soft, fibrous, black, moist	665.34						
12	END OF BOREHOLE @ 10.0ft BGS							
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB248-13
DATE COMPLETED: August 20, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	P/D (ppm)
	NORTHING: 512111.51 EASTING: 12773048.05	GROUND SURFACE 675.90						
2	SP/GP-SAND AND GRAVEL, loose, fine sand, fine gravel, poorly graded, light brown, moist	675.40		0-2' -078				0.4
4	SP-SAND, trace fine gravel, loose, fine sand, poorly graded, brown, moist - trace slag at 1.0ft BGS - trace slag at 2.0ft BGS - trace slag at 4.0ft BGS			1DP 2-4' -079		80		0.6
6	SP-SAND, trace fine gravel, loose, fine sand, poorly graded brown, moist	670.90		4-6' -080/ 081				0.5
8	CONCRETE DEBRIS	668.40		6-8' -082/ 083 2DP		60		0.0
10	SP-SAND, trace fine to coarse gravel, loose, fine sand, poorly graded, brown, moist	667.90		8-10' -084				0.0
10	END OF BOREHOLE @ 10.0ft BGS	665.90						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB249-13
DATE COMPLETED: August 20, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512083.75 EASTING: 12773031.33 GROUND SURFACE	676.55						
2	SP/GP-SAND AND GRAVEL, with crushed concrete, loose, fine sand, fine gravel, poorly graded, light brown, moist	676.05		0-2' -073				0.2
	SP-SAND, with fine gravel, trace slag, loose, fine sand, poorly graded, brown, moist	675.55		1DP 2-4' -074		80		1.0
4	FILL, with slag, trace fine gravel, loose, fine sand, poorly graded, brown and black, moist							
	FILL, with slag, fine sand, poorly graded, black, moist	672.05		4-6' -075				0.7
6	SP-SAND, trace gravel, fine grained, poorly graded, brown and orange brown, moist	670.55		6-8' -076 2DP		60		1.1
8				8-10' -077				0.9
10	- gravel/crushed concrete at 9.0ft BGS							
	END OF BOREHOLE @ 10.0ft BGS	666.55						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB250-13
DATE COMPLETED: August 20, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512054.96 EASTING: 12773014.45 GROUND SURFACE	676.40						
2	SP/GP-SAND AND GRAVEL (FILL), with crushed concrete, trace brick debris, loose, fine sand, fine to coarse gravel, poorly graded, brown, moist	674.90		0-2' -067				1.8
4	SP-SAND (FILL), trace fine gravel, loose, fine sand, poorly graded, brown, moist - slag debris at 4.0ft BGS			1DP 2-4' -068		80		0.2
6	SP-SAND (FILL), loose, fine sand, poorly graded, dark brown	671.40		4-6' -069/ 070				1.6
8	SP-SAND (FILL), trace slag debris, loose, fine grained, poorly graded, dark brown and black, moist	669.40		6-8' -071 2DP		60		1.5
10	SLUDGE-LIKE DEBRIS, trace slag, trace wood, white	666.90 666.40		8-10' -072				1.4
12	END OF BOREHOLE @ 10.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB251-13
DATE COMPLETED: August 20, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	P/D (ppm)
	NORTHING: 512084.59 EASTING: 12772995.05 GROUND SURFACE	676.05						
2	SP/GP-SAND AND GRAVEL, loose, fine sand, fine gravel, poorly graded, light brown, moist	675.55		0-2' -106/ 107				0.1
	SP-SAND, trace fine gravel, fine sand, poorly graded, brown, moist			1DP 2-4' -108	60			1.7
4	- trace slag at 1.0ft BGS - slag from 3.0 to 5.0ft BGS	673.05		4-6' -109				1.2
6	SP-SAND, with fine gravel, loose, fine to medium sand, poorly graded, dark brown and black, moist	671.05		6-8' -110/ 111 2DP	60			0.9
8	SP-SAND, trace fine gravel, loose, fine to medium sand, poorly graded, brown, moist			8-10' -112				0.7
10	- trace slag at 8.0ft BGS - trace slag at 9.5ft BGS END OF BOREHOLE @ 10.0ft BGS	666.05						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB252-13
DATE COMPLETED: August 20, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512112.07 EASTING: 12772977.06 GROUND SURFACE	675.93						
2	SP/GP-SAND AND GRAVEL, loose, fine sand, fine gravel, poorly graded, light brown, moist	674.93		0-2' -100		80		0.4
4	SP-SAND, loose, fine grained, poorly graded, brown, moist - trace sand, black at 1.5ft BGS			1DP 2-4' -101/ 102				0.8
6				4-6' -103				0.6
8	SP-SAND, trace fine gravel, loose, fine to medium sand, poorly graded, light brown, moist - trace slag at 8.0ft BGS	668.93		6-8' -104 2DP				0.3
10	SP-SAND, compact, fine sand, poorly graded, black, moist	666.93		8-10' -105				0.9
12	SP-SAND, compact, fine sand, poorly graded, brown, moist	666.43						
12	END OF BOREHOLE @ 10.0ft BGS	665.93						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB253-13
DATE COMPLETED: August 20, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512142.91 EASTING: 12772994.57 GROUND SURFACE	676.15						
2	SP/GP-SAND AND GRAVEL, loose, fine sand, fine gravel, poorly graded, light brown, moist	675.15		0-2' -095				0.0
4	SP-SAND, with fine to coarse gravel, fine sand, poorly graded, brown, moist - trace slag from 3.0 to 5.0ft BGS			1DP 2-4' -096	60			0.2
6	SP-SAND, trace fine gravel, fine to coarse sand, poorly graded, brown, moist - trace slag at 6.0ft BGS - sand, black from 7.0 to 7.5ft BGS	671.15		4-6' -097				0.9
8				6-8' -098 2DP	60			1.1
10	PT-PEAT, trace silt and fine sand soft, fibrous, black, moist END OF BOREHOLE @ 10.0ft BGS	666.65 666.15		8-10' -099				0.8
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB254-13
DATE COMPLETED: August 21, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	TEMP MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 511901.1 EASTING: 12773010.96	GROUND SURFACE 676.76						
2	SP/GP-SAND AND GRAVEL, loose, fine sand, fine to coarse gravel, poorly graded, light brown, moist	676.26						0.8
4	SP-SAND, trace slag, trace fine gravel, compact, fine sand, poorly graded, brown, moist			1DP		60		0.4
6	SP-SAND, trace slag, trace fine gravel, compact, fine sand, poorly graded, dark brown, moist	672.26						0.9
8	- no slag at 5.5ft BGS			2DP		60		0.7
10	SLUDGE-LIKE DEBRIS, trace slag, trace wood, white	667.76 667.01						0.9
12	SP-SAND, trace fine gravel, loose, fine sand, poorly graded, brown, moist							0.4
14	- 1/2" sand seam, black, wet at 12.0ft BGS	664.76						
16	SP-SAND, with fine gravel, trace silt, fine sand, poorly graded, brown, wet	663.76		3DP		60		0.8
18	PT-PEAT, trace silt and fines, soft, fibrous, black, moist							
20	NO RECOVERY, trace silty clay, high plasticity, gray/brown, wet	661.76						
22	END OF BOREHOLE @ 20.0ft BGS	656.76		4DP		0		

WELL DETAILS
Screened interval:
666.76 to 656.76ft
10.00 to 20.00ft BGS
Length: 10ft

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB255-13
DATE COMPLETED: August 19, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 510552.36 EASTING: 12772980.38 GROUND SURFACE	677.56						
2	CONCRETE			1DP		90		
4	SP-SAND, trace silt, compact, fine to medium grained, poorly graded, brown, moist	674.06						0.3
6								0.3
8	SP-SAND, with fine gravel, compact, fine to coarse grained, poorly graded, brown, moist	669.56		2DP		60		0.4
10								
12								0.4
14	- medium gravel at 14.0ft BGS - wet at 15.0ft BGS			3DP 12-14' -017		90		
16	END OF BOREHOLE @ 16.0ft BGS	661.56		4DP		90		0.6
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB256-13
DATE COMPLETED: August 19, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 510506.97 EASTING: 12772980.67 GROUND SURFACE	677.28						
	CONCRETE							
2	SP-SAND, compact, fine to medium grained, poorly graded, brown and dark brown, moist	676.61		0-2' -001		75		1.3
4				1DP 2-4' -002				1.2
6	SP-SAND, compact, fine grained, poorly graded, light brown, dry	672.78		4-6' -003				
8				6-8' -004 2DP		80		0.2
10	SP-SAND, with fine gravel, compact, medium to coarse grained, poorly graded, gray and light brown, dry	668.78		8-10' -005				1.1
12				10-12' -006				1.7
14	SP-SAND, trace silt, compact, fine grained, poorly graded, light brown, moist	665.28		3DP 12-14' -007		75		
16	SP-SAND, with fine gravel, compact, medium to coarse grained, poorly7 graded, brown, moist - wet at 14.8ft BGS END OF BOREHOLE @ 15.0ft BGS	663.28 662.28		14-15' -008				1.7
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32								
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB257-13
DATE COMPLETED: August 19, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	P/D (ppm)
	NORTHING: 510477.97 EASTING: 12772981.18 GROUND SURFACE	677.12						
	CONCRETE							
2	SP-SAND, trace fine gravel, compact, fine to medium grained, poorly graded, light brown, moist	676.12		0-2' -058		80		0.1
4				1DP 2-4' -059				
6				4-6' -060/ 061				1.2
8	SP-SAND, with fine gravel, compact, fine to coarse grained, poorly graded, brown, moist	669.12		6-8' -062/ 063 2DP		90		0.9
10				8-10' -064				0.7
12				10-12' -065				1.2
14	- wet at 14.0ft BGS			3DP 12-14' -066				0.5
16	END OF BOREHOLE @ 15.0ft BGS	662.12						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB258-13
DATE COMPLETED: August 19, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 510477.59 EASTING: 12772951.47 GROUND SURFACE	676.87						
	CONCRETE							
2	SP-SAND, trace fine gravel, compact, fine to coarse grained, poorly graded, brown, moist	675.87		0-2' -051				
4				1DP 2-4' -052		80		1.0
6				4-6' -053				0.9
8				6-8' -054 2DP		80		0.1
10				8-10' -055/ 056				0.2
12	- wet at 12.0ft BGS			10-12' -057				0.1
14				3DP		50		
16	END OF BOREHOLE @ 15.0ft BGS	661.87						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB259-13
DATE COMPLETED: August 19, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	P/D (ppm)
	NORTHING: 510506.08 EASTING: 12772905.27 GROUND SURFACE	676.76						
	CONCRETE							
2	SP-SAND, compact, fine to medium grained, poorly graded, brown, moist	675.76		0-2' -034		80		0.8
4				1DP 2-4' -035/ 036				
	SP-SAND, trace fine gravel, compact, fine to coarse grained, poorly graded, brown, moist	672.76		4-6' -037				1.1
6				6-8' -038 2DP		80		0.4
8				8-10' -039				1.4
10				10-12' -040				1.4
12				3DP 12-14' -041		80		1.4
14	- wet at 13.0ft BGS							
16	END OF BOREHOLE @ 15.0ft BGS	661.76						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB260-13
DATE COMPLETED: August 19, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 510477.57 EASTING: 12772905.47 GROUND SURFACE	676.64						
	CONCRETE							
2	SP-SAND, compact, fine to medium grained, poorly graded, brown, moist	675.64		0-2' -042		75		0.9
4				1DP 2-4' -043/ 044				1.1
6	SP-SAND, trace fine gravel, compact, fine to medium grained, poorly graded, brown, moist	671.64		4-6' -045/ 046				1.1
8				6-8' -047 2DP		60		1.3
10				8-10' -048				1.1
12				10-12' -049				1.1
14	- wet at 13.0ft BGS			3DP 12-14' -050		60		
16	END OF BOREHOLE @ 15.0ft BGS	661.64						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB261-13
DATE COMPLETED: August 19, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	P/D (ppm)
	NORTHING: 510551.61 EASTING: 12772905.35 GROUND SURFACE	676.00						
	CONCRETE							
2	SP-SAND, trace fine gravel, compact, fine to medium grained, poorly graded, brown, moist	675.00		0-2' -027		75		1.0
4	SP-SAND, trace fine and coarse gravel, compact, fine to coarse grained, poorly graded, brown, moist	673.00		1DP 2-4' -028				
6				4-6' -029				1.2
8				6-8' -030 2DP		80		1.1
10				8-10' -031				1.3
12				10-12' -032				1.4
14	- wet at 14.0ft BGS			3DP 12-14' -033		60		1.4
16	END OF BOREHOLE @ 16.0ft BGS	660.00						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB262-13
DATE COMPLETED: August 19, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 510553.09 EASTING: 12772951.03 GROUND SURFACE	677.18						
2	CONCRETE							-
	- trace slag at 3.0ft BGS	673.68		1DP 2'-4" -019		100		0.1
4	SP-SAND, trace silt, trace fine gravel, compact, fine to coarse grained, poorly graded, brown, moist			4-6' -020				0.8
6				6-8' -021 2DP		75		
8	SP-SAND, trace fine gravel, compact, medium to coarse grained, poorly graded, brown, moist	669.18		8-10' -022/ 023				1.1
10				10-12' -024/ 025				1.2
12	SP-SAND, with fine to coarse gravel, compact, medium to coarse grained, poorly graded, moist	665.18		3DP 12-14' -026		80		1.4
14	- wet at 14.0ft BGS							
16	END OF BOREHOLE @ 16.0ft BGS	661.18						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB263-13
DATE COMPLETED: August 22, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 511896.29 EASTING: 12773308.41 GROUND SURFACE	681.21						
2	SP/GP-SAND AND GRAVEL, loose, fine sand, fine to coarse gravel, poorly graded, slightly gray/brown to brown, moist			1DP		90		1.1
4	- very fine slag and brick debris at 3.0ft BGS							2.1
6	SP-SAND, trace fine gravel, compact, fine sand, poorly graded, brown, moist	677.21						1.1
8	SP-SAND, trace fine gravel, compact, fine grained, poorly graded, slight orange brown, moist	673.71		2DP		80		0.9
10								0.8
12								0.7
14	GP-GRAVEL, trace fine to coarse sand, loose, fine gravel, poorly graded, gray, moist	668.21		3DP		50		0.7
16								0.8
18				4DP		60		0.7
20	- wet at 20.0ft BGS							0.1
22								
24				5DP				
26	END OF BOREHOLE @ 25.0ft BGS	656.21						
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB264-13
DATE COMPLETED: August 22, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 511778.02 EASTING: 12773519.66 GROUND SURFACE	682.44						
2	SP/GP-SAND AND GRAVEL, loose, fine sand, fine to coarse gravel, poorly graded, slightly gray/brown to brown, moist	680.44		1DP		80		0.0
4	SP-SAND, trace fine gravel, compact, fine sand, poorly graded, brown, moist - trace slag, small pieces of clay at 3.5ft BGS - no slag at 5.0ft BGS							0.0
6								0.3
8				6-8' -154 2DP		80		0.1
10								0.0
12								0.0
14	- trace fine to coarse gravel, brown/dark brown at 13.0ft BGS	668.44		3DP		80		0.0
16	SP-SAND, fine grained, poorly graded, brown and orange brown, slight mottle, wet	667.44						0.7
18	GP-GRAVEL, trace sand, loose, fine gravel, poorly graded, gray, moist	665.44		4DP		60		0.7
20	SP-SAND, with fine gravel, loose, fine to medium sand, poorly graded, gray/brown, wet - brown at 18.5ft BGS - trace fine black sand, brown at 20.0ft BGS							0.7
22	- brown, wet at 22.0ft BGS			20-22' -155/ 156 5DP				0.3
24								
26	END OF BOREHOLE @ 25.0ft BGS	657.44						
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB265-13
DATE COMPLETED: August 22, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	P/D (ppm)
	NORTHING: 511571.34 EASTING: 12773311.43 GROUND SURFACE	675.69						
2	SP/GP-SAND AND GRAVEL, dark brown	674.69		1DP		80		1.1
4	SP-SAND, loose, fine grained, poorly graded, brown, moist							0.5
6	SP-SAND, some fine gravel, loose, fine to coarse sand, poorly graded, brown, moist becoming wet	670.69		4-6' -158				0.8
8				2DP		80		0.8
10				8-10' -159				1.0
12								0.9
14				3DP		80		0.6
16	- wet at 15.0ft BGS							1.1
18	SP-SAND, with silt, loose, fine grained, poorly graded, brown, wet	658.69		4DP		60		
20	END OF BOREHOLE @ 20.0ft BGS	655.69						
22								
24								
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28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB266-13
DATE COMPLETED: August 22, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 511572.86 EASTING: 12773310.69 GROUND SURFACE	675.68						
2	SP/GP-SAND AND GRAVEL, fine sand and gravel, brown, wet	674.18		1DP		80		0.4
4	SP-SAND, trace slag, trace fine gravel, loose, fine grained, poorly graded, brown, moist							0.6
6	SP-SAND, trace slag, trace gravel, loose, poorly graded, dark brown and black, moist	670.93 670.68		4-6' -15.7				0.3
8	SP-SAND, with fine gravel, loose, fine to coarse sand, poorly graded, brown, moist becoming wet			2DP		60		0.5
10	END OF BOREHOLE @ 10.0ft BGS	665.68						0.7
12								
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB267-13
DATE COMPLETED: August 21, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512003.96 EASTING: 12773013.35	GROUND SURFACE 676.31						
2	SP/GP-SAND AND GRAVEL, trace brick debris, loose, fine to medium sand, fine gravel, poorly graded, light brown, moist	675.31		0-2' -115				0.6
4	SP-SAND, trace slag, trace fine gravel, loose, fine sand, brown, moist			1DP 2-4' -116		60		0.6
6				4-6' -117				0.1
8				6-8' -118 2DP		60		0.4
10	- with slag and fine black sand at 9.0ft BGS			8-10' -119				0.0
12	SLUDGE-LIKE MATERIAL, with some wood, soft, white	666.81		10-12' -120				0.6
14	PT-PEAT, with wood debris, trace silt and fines, soft, fibrous, black, moist	663.81		3DP 12.5-14.5' -121		100		0.6
16	SP-SAND, loose, fine grained, poorly graded, gray and dark gray, wet	662.06						
18	END OF BOREHOLE @ 15.0ft BGS	661.31						
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24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB268-13
DATE COMPLETED: August 21, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512003.35 EASTING: 12773049.94 GROUND SURFACE	676.23						
2	SP/GP-SAND AND GRAVEL, trace brick debris, loose, fine to medium sand, fine gravel, poorly graded, light brown, moist	675.73		1DP				0.0
	SP-SAND, trace fine gravel, trace slag, loose, fine sand, poorly graded, brown, moist	674.23						0.0
4	FILL, with slag, loose, fine sand, poorly graded, black, moist	673.23						0.6
6	SP-SAND, trace fine gravel, loose, fine sand, poorly graded, brown - trace slag from 4.0 to 5.0ft BGS			2DP				0.6
8								0.5
10	END OF BOREHOLE @ 10.0ft BGS	666.23						
12								
14								
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32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB269-13
DATE COMPLETED: August 21, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 511978.12 EASTING: 12773059.97 GROUND SURFACE	676.67						
2	SP/GP-SAND AND GRAVEL, trace brick debris, loose, fine to medium sand, fine gravel, poorly graded, light brown, moist	675.67		0-2' -124/ 125				0.9
	SP-SAND, trace fine gravel, compact, fine sand, poorly graded, brown, moist	674.67		1DP 2-4' -126		80		0.1
4	FILL, with slag, compact, fine sand, poorly graded, black, moist	673.92		4-6' -127				0.5
6	SP-SAND, trace gravel, compact, fine sand, poorly graded, brown, moist			6-8' -128 2DP		60		0.1
8	- trace slag at 7.0ft BGS			8-10' -129				0.0
10	END OF BOREHOLE @ 10.0ft BGS	666.67						
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34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB270-13
DATE COMPLETED: August 21, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	P/D (ppm)
	NORTHING: 512115.4 EASTING: 12772963.14 GROUND SURFACE	675.59						
2	SP/GP-SAND AND GRAVEL, trace brick debris, trace slag, loose, fine to medium sand, fine to coarse gravel, poorly graded, light brown, moist	674.09		0-2' -130		80		0.3
4	SP-SAND, trace gravel, loose, fine sand, poorly graded, brown, moist			1DP 2-4' -131/ 132				0.0
6	SP-SAND, trace slag, loose, fine grained, poorly graded, dark brown, moist	670.59 670.09		4-6' -133				0.0
8	SP-SAND, with slag, compact, fine grained, poorly graded, black, moist	668.59		6-8' -134 2DP				0.0
10	SP-SAND, trace fine gravel, compact, fine sand, poorly graded, brown, moist - dark brown at 7.5ft BGS - brown at 8.0ft BGS - light brown at 9.0ft BGS	665.59		8-10' -135				0.0
12	END OF BOREHOLE @ 10.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB271-13
DATE COMPLETED: August 22, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512172.03 EASTING: 12772978.8 GROUND SURFACE	676.59						
2	SP/GP-SAND AND GRAVEL, trace brick debris, loose, fine to medium sand, fine gravel, poorly graded, brown, moist	676.09		0-2' -136				0.4
4	FILL, with slag, trace fine gravel, fine sand, poorly graded, brown, moist - trace slag at 2.0ft BGS			1DP 2-4' -137		80		0.2
6	SP-SAND, trace fine gravel, loose, fine sand, poorly graded, light brown, moist	672.09		4-6' -138				0.4
8	- trace slag at 7.5ft BGS - with slag, no gravel, , dark brown and black at 8.0ft BGS			6-8' -139 2DP		75		0.2
10	- with fine gravel, no slag, light brown at 8.5ft BGS - no slag or gravel, black and dark brown at 9.3ft BGS	666.59		8-10' -140				0.5
12	END OF BOREHOLE @ 10.0ft BGS							
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18								
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30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB272-13
DATE COMPLETED: August 22, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512170.92 EASTING: 12773046.38 GROUND SURFACE	674.76						
2	SP/GP-SAND AND GRAVEL, trace brick debris, loose, fine to medium sand, fine gravel, poorly graded, light brown, moist	673.76		0-2' -141				0.8
	SP-SAND, trace slag, trace fine gravel, fine sand, poorly graded, brown, moist			1DP 2-4' -142		75		0.7
4	- trace slag at 4.5ft BGS			4-6' -143				0.7
6	SP-SAND, trace fine gravel, loose, fine sand, poorly graded, brown, red brown, dark brown and gray	668.76		6-8' -144/ 145 2DP		50		0.4
8	- gray, brown and black at 7.0ft BGS - concrete/brick debris at 8.5ft BGS	666.26		8-10' -146				0.6
10	PT-PEAT, with wood debris, trace silt and fines, soft, black, moist - with gray fines at 9.5ft BGS	664.76						
12	END OF BOREHOLE @ 10.0ft BGS							
14								
16								
18								
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26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB273-13
DATE COMPLETED: August 22, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	P/D (ppm)
	NORTHING: 512049.61 EASTING: 12772950.54	GROUND SURFACE 676.24						
2	SP/GP-SAND AND GRAVEL, trace brick debris, loose, fine to medium sand, fine to coarse gravel, poorly graded, brown, moist	674.24		0-2' -147		80		1.2
4	SP-SAND, trace fine gravel, loose, fine to medium sand, poorly graded, brown, moist			1DP 2-4' -148				0.2
6	- trace slag at 5.0ft BGS			4-6' -149		80		0.5
8	- sand seam, light gray at 6.0ft BGS			6-8' -150 2DP				0.6
10	- trace slag, compact, brown and dark brown at 7.0ft BGS - compact, fine grained, brown at 8.5ft BGS - gray brown at 9.3ft BGS			8-10' -151				1.3
12	END OF BOREHOLE @ 10.0ft BGS	666.24						
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 9/24/13

Attachment B

Analytical Laboratory Data



30-Aug-2013

Paul Wiseman
Conestoga-Rovers & Associates
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Former GRMP (17360-T05Y13-01Y13)**

Work Order: **1308936**

Dear Paul,

ALS Environmental received 45 samples on 23-Aug-2013 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 198.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Beamish".

Electronically approved by: Tom Beamish

Tom Beamish
Senior Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

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RIGHT SOLUTIONS RIGHT PARTNER

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Work Order: 1308936

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1308936-01	SO-17360-082013-MR-067	Soil		08/20/13 09:20	08/23/13 16:15	☐
1308936-02	SO-17360-082013-MR-068	Soil		08/20/13 09:25	08/23/13 16:15	☐
1308936-03	SO-17360-082013-MR-069	Soil		08/20/13 09:30	08/23/13 16:15	☐
1308936-04	SO-17360-082013-MR-070	Soil		08/20/13 09:35	08/23/13 16:15	☐
1308936-05	SO-17360-082013-MR-071	Soil		08/20/13 09:40	08/23/13 16:15	☐
1308936-06	SO-17360-082013-MR-072	Soil		08/20/13 09:45	08/23/13 16:15	☐
1308936-07	SO-17360-082013-MR-073	Soil		08/20/13 10:50	08/23/13 16:15	☐
1308936-08	SO-17360-082013-MR-074	Soil		08/20/13 10:55	08/23/13 16:15	☐
1308936-09	SO-17360-082013-MR-075	Soil		08/20/13 11:00	08/23/13 16:15	☐
1308936-10	SO-17360-082013-MR-076	Soil		08/20/13 11:05	08/23/13 16:15	☐
1308936-11	SO-17360-082013-MR-077	Soil		08/20/13 11:10	08/23/13 16:15	☐
1308936-12	SO-17360-082013-MR-078	Soil		08/20/13 11:30	08/23/13 16:15	☐
1308936-13	SO-17360-082013-MR-079	Soil		08/20/13 11:35	08/23/13 16:15	☐
1308936-14	SO-17360-082013-MR-080	Soil		08/20/13 11:40	08/23/13 16:15	☐
1308936-15	SO-17360-082013-MR-081	Soil		08/20/13 11:45	08/23/13 16:15	☐
1308936-16	SO-17360-082013-MR-082	Soil		08/20/13 11:50	08/23/13 16:15	☐
1308936-17	SO-17360-082013-MR-084	Soil		08/20/13 12:00	08/23/13 16:15	☐
1308936-18	SO-17360-082013-MR-085	Soil		08/20/13 12:25	08/23/13 16:15	☐
1308936-19	SO-17360-082013-MR-086	Soil		08/20/13 12:30	08/23/13 16:15	☐
1308936-20	SO-17360-082013-MR-087	Soil		08/20/13 12:35	08/23/13 16:15	☐
1308936-21	SO-17360-082013-MR-088	Soil		08/20/13 12:40	08/23/13 16:15	☐
1308936-22	SO-17360-082013-MR-089	Soil		08/20/13 12:45	08/23/13 16:15	☐
1308936-23	SO-17360-082013-MR-089 (246-13)	Soil		08/20/13 13:00	08/23/13 16:15	☐
1308936-24	SO-17360-082013-MR-090	Soil		08/20/13 13:05	08/23/13 16:15	☐
1308936-25	SO-17360-082013-MR-091	Soil		08/20/13 13:10	08/23/13 16:15	☐
1308936-26	SO-17360-082013-MR-092	Soil		08/20/13 13:15	08/23/13 16:15	☐
1308936-27	SO-17360-082013-MR-093	Soil		08/20/13 13:20	08/23/13 16:15	☐
1308936-28	SO-17360-082013-MR-094	Soil		08/20/13 13:25	08/23/13 16:15	☐
1308936-29	SO-17360-082013-MR-095	Soil		08/20/13 14:10	08/23/13 16:15	☐
1308936-30	SO-17360-082013-MR-096	Soil		08/20/13 14:15	08/23/13 16:15	☐
1308936-31	SO-17360-082013-MR-097	Soil		08/20/13 14:20	08/23/13 16:15	☐
1308936-32	SO-17360-082013-MR-098	Soil		08/20/13 14:25	08/23/13 16:15	☐
1308936-33	SO-17360-082013-MR-099	Soil		08/20/13 14:30	08/23/13 16:15	☐
1308936-34	SO-17360-082013-MR-100	Soil		08/20/13 15:05	08/23/13 16:15	☐
1308936-35	SO-17360-082013-MR-101	Soil		08/20/13 15:10	08/23/13 16:15	☐
1308936-36	SO-17360-082013-MR-102	Soil		08/20/13 15:15	08/23/13 16:15	☐
1308936-37	SO-17360-082013-MR-103	Soil		08/20/13 15:20	08/23/13 16:15	☐
1308936-38	SO-17360-082013-MR-104	Soil		08/20/13 15:25	08/23/13 16:15	☐
1308936-39	SO-17360-082013-MR-105	Soil		08/20/13 15:30	08/23/13 16:15	☐

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Work Order: 1308936

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1308936-40	SO-17360-082013-MR-106	Soil		08/20/13 16:15	08/23/13 16:15	☐
1308936-41	SO-17360-082013-MR-108	Soil		08/20/13 16:25	08/23/13 16:15	☐
1308936-42	SO-17360-082013-MR-109	Soil		08/20/13 16:30	08/23/13 16:15	☐
1308936-43	SO-17360-082013-MR-110	Soil		08/20/13 16:35	08/23/13 16:15	☐
1308936-44	SO-17360-082013-MR-111	Soil		08/20/13 16:40	08/23/13 16:15	☐
1308936-45	SO-17360-082013-MR-112	Soil		08/20/13 16:45	08/23/13 16:15	☐

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
WorkOrder: 1308936

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Work Order: 1308936

Case Narrative**Analytical Comments:**

Batch 50831, Method SVO_8270_S, Sample 1308936-40B: One or more SVOC surrogate recoveries are unavailable due to sample matrix interference. Target analytes were not affected by the interference. No qualification is necessary.

The positive results for Acetone, Cyclohexane, Methyl acetate, and Methylcyclohexane should be considered as sample artifacts and not inherent in the samples themselves, unless historical data from the site indicates otherwise. There were no observances of these analytes in the associated method blanks, therefore lab contamination is not suspected. The exact source of the artifacts are not able to be determined, but potential causes could be any of the following: sample collection equipment and procedures, sample storage and transport, and/or background laboratory levels due to routine analytical procedures or factors affecting the air handling system within the laboratory. These analytes are commonly found at low levels in environmental samples and positive results should be considered as estimated.

QC Comments:

Batch 50801, Method ICP_6020_S, Sample 1308936-16BMS: The MS and/or MSD recoveries were above the upper control limit. The corresponding results in the parent sample may be biased high for Barium and Vanadium.

Batch 50802, Method ICP_6020_S, Sample 1308936-27BMS: The MS and/or MSD recoveries were above the upper control limit. The corresponding results in the parent sample may be biased high for Barium, Vanadium, and Zinc.

Batch 50866, Method ICP_6020_S, Sample 1308936-40BMS: The MS and/or MSD recoveries were below the lower control limit. The corresponding result in the parent sample may be biased low for Beryllium.

Batch 50866, Method ICP_6020_S, Sample 1308936-40BMSD: The matrix spike duplicate recoveries were outside of the control limit. However, the matrix spike recoveries and the RPDs between the MS and MSDs were in control. No qualification is required for Copper and Nickel.

Batch 50831, Method SVO_8270_S, Sample 1308936-40B MS: The MS and/or MSD recoveries were above the upper control limit. The corresponding results in the parent sample

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Work Order: 1308936

Case Narrative

may be biased high for Anthracene, Benzo(k)fluoranthene, Fluoranthene, Phenanthrene, and Pyrene.

Batch 50820, Method VOC_8260_S, Sample LCS-50820: The LCS recovery was above the upper control limit. All sample results in the batch were non-detect. No qualification is necessary for 1,2 Dibromoethane.

Batch 50821, Method VOC_8260_S, Sample LCS-50821: The LCS recovery was above the upper control limit. All sample results in the batch were non-detect. No qualification is necessary for 1,2 Dibromoethane.

Batch 50821, Method VOC_8260_S, Sample 1308936-40A MSD: The MS and MSD recoveries were below the lower control limit. The corresponding results in the parent sample may be biased low for Bromomethane and Dibromochloromethane.

Batch 50856, Method VOC_8260_S, Sample LCS-50856: The LCS recovery was outside of the upper control limit but within the Sporadic Marginal Exceedence limit. No qualification is necessary for 1,2 Dibromoethane and Bromomethane.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-067
Collection Date: 08/20/13 09:20 AM

Work Order: 1308936
Lab ID: 1308936-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/26/13	Analyst: LR
BatchID: <u>50800</u>							
Mercury	0.030	J	0.00079	0.040	mg/Kg-dry	1	08/26/13 17:43
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
BatchID: <u>50801</u>							
Antimony	0.94		0.0016	0.40	mg/Kg-dry	1	08/27/13 23:52
Arsenic	2.0		0.054	0.40	mg/Kg-dry	1	08/27/13 23:52
Barium	56		0.011	0.40	mg/Kg-dry	1	08/27/13 23:52
Beryllium	0.11	J	0.0032	0.16	mg/Kg-dry	1	08/27/13 23:52
Cadmium	0.26		0.0016	0.16	mg/Kg-dry	1	08/27/13 23:52
Chromium	11		0.065	0.40	mg/Kg-dry	1	08/27/13 23:52
Cobalt	2.5		0.0016	0.40	mg/Kg-dry	1	08/27/13 23:52
Copper	12		0.078	0.40	mg/Kg-dry	1	08/27/13 23:52
Iron	7,400		1.3	13	mg/Kg-dry	1	08/27/13 23:52
Lead	110		0.0016	0.40	mg/Kg-dry	1	08/27/13 23:52
Molybdenum	2.3		0.017	0.40	mg/Kg-dry	1	08/27/13 23:52
Nickel	9.5		0.040	0.40	mg/Kg-dry	1	08/27/13 23:52
Selenium	0.50		0.051	0.40	mg/Kg-dry	1	08/27/13 23:52
Silver	0.34	J	0.0016	0.40	mg/Kg-dry	1	08/27/13 23:52
Thallium	0.092	J	0.0095	0.40	mg/Kg-dry	1	08/27/13 23:52
Vanadium	14		0.024	0.40	mg/Kg-dry	1	08/27/13 23:52
Zinc	26		0.033	0.79	mg/Kg-dry	1	08/27/13 23:52
BatchID: <u>50801</u>							
Manganese	170		0.35	4.0	mg/Kg-dry	10	08/28/13 19:13
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/26/13	Analyst: RM
BatchID: <u>50815</u>							
2-Methylnaphthalene	U		100	830	µg/Kg-dry	10	08/27/13 17:43
Acenaphthene	270	J	95	310	µg/Kg-dry	10	08/27/13 17:43
Acenaphthylene	U		98	310	µg/Kg-dry	10	08/27/13 17:43
Anthracene	730		110	310	µg/Kg-dry	10	08/27/13 17:43
Benzo(a)anthracene	1,200		130	310	µg/Kg-dry	10	08/27/13 17:43
Benzo(a)pyrene	1,400		160	310	µg/Kg-dry	10	08/27/13 17:43
Benzo(b)fluoranthene	1,600		170	310	µg/Kg-dry	10	08/27/13 17:43
Benzo(g,h,i)perylene	1,100		240	310	µg/Kg-dry	10	08/27/13 17:43
Benzo(k)fluoranthene	750		140	310	µg/Kg-dry	10	08/27/13 17:43
Chrysene	1,100		120	310	µg/Kg-dry	10	08/27/13 17:43
Dibenzo(a,h)anthracene	740		180	310	µg/Kg-dry	10	08/27/13 17:43
Fluoranthene	3,200		120	310	µg/Kg-dry	10	08/27/13 17:43

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-067
Collection Date: 08/20/13 09:20 AM

Work Order: 1308936
Lab ID: 1308936-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene		U	91	310	µg/Kg-dry	10	08/27/13 17:43
Indeno(1,2,3-cd)pyrene	1,200		200	310	µg/Kg-dry	10	08/27/13 17:43
Naphthalene		U	89	310	µg/Kg-dry	10	08/27/13 17:43
Phenanthrene	3,000		310	310	µg/Kg-dry	10	08/27/13 17:43
Pyrene	2,700		130	310	µg/Kg-dry	10	08/27/13 17:43
Surr: 2-Fluorobiphenyl	80.4			12-100	%REC	10	08/27/13 17:43
Surr: 4-Terphenyl-d14	102			25-137	%REC	10	08/27/13 17:43
Surr: Nitrobenzene-d5	84.8			37-107	%REC	10	08/27/13 17:43
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: AK
BatchID: 50820							
1,1,1-Trichloroethane		U	14	38	µg/Kg-dry	1	08/27/13 15:03
1,1,2,2-Tetrachloroethane		U	17	38	µg/Kg-dry	1	08/27/13 15:03
1,1,2-Trichloroethane		U	13	38	µg/Kg-dry	1	08/27/13 15:03
1,1,2-Trichlorotrifluoroethane		U	14	38	µg/Kg-dry	1	08/27/13 15:03
1,1-Dichloroethane		U	14	38	µg/Kg-dry	1	08/27/13 15:03
1,1-Dichloroethene		U	16	38	µg/Kg-dry	1	08/27/13 15:03
1,2,4-Trichlorobenzene		U	20	38	µg/Kg-dry	1	08/27/13 15:03
1,2-Dibromo-3-chloropropane		U	18	38	µg/Kg-dry	1	08/27/13 15:03
1,2-Dibromoethane		U	15	38	µg/Kg-dry	1	08/27/13 15:03
1,2-Dichlorobenzene		U	15	38	µg/Kg-dry	1	08/27/13 15:03
1,2-Dichloroethane		U	18	38	µg/Kg-dry	1	08/27/13 15:03
1,2-Dichloropropane		U	13	38	µg/Kg-dry	1	08/27/13 15:03
1,3-Dichlorobenzene		U	15	38	µg/Kg-dry	1	08/27/13 15:03
1,4-Dichlorobenzene		U	14	38	µg/Kg-dry	1	08/27/13 15:03
2-Butanone		U	93	250	µg/Kg-dry	1	08/27/13 15:03
2-Hexanone		U	9.3	38	µg/Kg-dry	1	08/27/13 15:03
4-Methyl-2-pentanone		U	13	38	µg/Kg-dry	1	08/27/13 15:03
Acetone		U	80	130	µg/Kg-dry	1	08/27/13 15:03
Benzene		U	15	38	µg/Kg-dry	1	08/27/13 15:03
Bromodichloromethane		U	8.5	38	µg/Kg-dry	1	08/27/13 15:03
Bromoform		U	7.4	38	µg/Kg-dry	1	08/27/13 15:03
Bromomethane		U	14	94	µg/Kg-dry	1	08/27/13 15:03
Carbon disulfide		U	19	38	µg/Kg-dry	1	08/27/13 15:03
Carbon tetrachloride		U	11	38	µg/Kg-dry	1	08/27/13 15:03
Chlorobenzene		U	15	38	µg/Kg-dry	1	08/27/13 15:03
Chloroethane		U	80	130	µg/Kg-dry	1	08/27/13 15:03
Chloroform		U	16	38	µg/Kg-dry	1	08/27/13 15:03
Chloromethane		U	21	130	µg/Kg-dry	1	08/27/13 15:03
cis-1,2-Dichloroethene		U	15	38	µg/Kg-dry	1	08/27/13 15:03

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-067
Collection Date: 08/20/13 09:20 AM

Work Order: 1308936
Lab ID: 1308936-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		13	38	µg/Kg-dry	1	08/27/13 15:03
Cyclohexane	U		17	38	µg/Kg-dry	1	08/27/13 15:03
Dibromochloromethane	U		7.0	38	µg/Kg-dry	1	08/27/13 15:03
Dichlorodifluoromethane	U		17	38	µg/Kg-dry	1	08/27/13 15:03
Ethylbenzene	23	J	14	38	µg/Kg-dry	1	08/27/13 15:03
Isopropylbenzene	U		16	38	µg/Kg-dry	1	08/27/13 15:03
Methyl acetate	110	J	51	250	µg/Kg-dry	1	08/27/13 15:03
Methyl tert-butyl ether	U		16	38	µg/Kg-dry	1	08/27/13 15:03
Methylcyclohexane	U		17	38	µg/Kg-dry	1	08/27/13 15:03
Methylene chloride	77	J	15	82	µg/Kg-dry	1	08/27/13 15:03
Styrene	U		14	38	µg/Kg-dry	1	08/27/13 15:03
Tetrachloroethene	U		17	38	µg/Kg-dry	1	08/27/13 15:03
Toluene	U		14	38	µg/Kg-dry	1	08/27/13 15:03
trans-1,2-Dichloroethene	U		12	38	µg/Kg-dry	1	08/27/13 15:03
trans-1,3-Dichloropropene	U		13	38	µg/Kg-dry	1	08/27/13 15:03
Trichloroethene	U		18	38	µg/Kg-dry	1	08/27/13 15:03
Trichlorofluoromethane	U		10	38	µg/Kg-dry	1	08/27/13 15:03
Vinyl chloride	U		17	38	µg/Kg-dry	1	08/27/13 15:03
Xylenes, Total	110	J	45	110	µg/Kg-dry	1	08/27/13 15:03
Surr: 1,2-Dichloroethane-d4	97.6			70-130	%REC	1	08/27/13 15:03
Surr: 4-Bromofluorobenzene	103			70-130	%REC	1	08/27/13 15:03
Surr: Dibromofluoromethane	95.9			70-130	%REC	1	08/27/13 15:03
Surr: Toluene-d8	94.8			70-130	%REC	1	08/27/13 15:03
MOISTURE			A2540 G			Analyst: LR	
<u>BatchID: R125753</u>							
Moisture	6.8		0.025	0.050	% of sample	1	08/26/13 21:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-068
Collection Date: 08/20/13 09:25 AM

Work Order: 1308936
Lab ID: 1308936-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471			Prep: SW7471 / 8/26/13	Analyst: LR
BatchID: <u>50800</u>							
Mercury	0.014	J	0.00080	0.040	mg/Kg-dry	1	08/26/13 17:46
METALS BY ICP-MS			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
BatchID: <u>50801</u>							
Antimony	0.42		0.0015	0.39	mg/Kg-dry	1	08/27/13 23:58
Arsenic	2.3		0.052	0.39	mg/Kg-dry	1	08/27/13 23:58
Barium	31		0.011	0.39	mg/Kg-dry	1	08/27/13 23:58
Beryllium	0.10	J	0.0031	0.15	mg/Kg-dry	1	08/27/13 23:58
Cadmium	0.24		0.0015	0.15	mg/Kg-dry	1	08/27/13 23:58
Chromium	8.3		0.063	0.39	mg/Kg-dry	1	08/27/13 23:58
Cobalt	2.2		0.0015	0.39	mg/Kg-dry	1	08/27/13 23:58
Copper	15		0.076	0.39	mg/Kg-dry	1	08/27/13 23:58
Iron	5,700		1.3	12	mg/Kg-dry	1	08/27/13 23:58
Lead	18		0.0015	0.39	mg/Kg-dry	1	08/27/13 23:58
Molybdenum	0.77		0.017	0.39	mg/Kg-dry	1	08/27/13 23:58
Nickel	6.8		0.039	0.39	mg/Kg-dry	1	08/27/13 23:58
Selenium	0.38	J	0.049	0.39	mg/Kg-dry	1	08/27/13 23:58
Silver	0.046	J	0.0015	0.39	mg/Kg-dry	1	08/27/13 23:58
Thallium	0.064	J	0.0093	0.39	mg/Kg-dry	1	08/27/13 23:58
Vanadium	10		0.023	0.39	mg/Kg-dry	1	08/27/13 23:58
Zinc	31		0.032	0.77	mg/Kg-dry	1	08/27/13 23:58
BatchID: <u>50801</u>							
Manganese	150		0.34	3.9	mg/Kg-dry	10	08/28/13 19:19
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3541 / 8/26/13	Analyst: RM
BatchID: <u>50815</u>							
2-Methylnaphthalene	U		100	830	µg/Kg-dry	10	08/27/13 18:03
Acenaphthene	U		95	310	µg/Kg-dry	10	08/27/13 18:03
Acenaphthylene	U		98	310	µg/Kg-dry	10	08/27/13 18:03
Anthracene	580		110	310	µg/Kg-dry	10	08/27/13 18:03
Benzo(a)anthracene	1,100		130	310	µg/Kg-dry	10	08/27/13 18:03
Benzo(a)pyrene	1,500		160	310	µg/Kg-dry	10	08/27/13 18:03
Benzo(b)fluoranthene	1,600		170	310	µg/Kg-dry	10	08/27/13 18:03
Benzo(g,h,i)perylene	1,200		240	310	µg/Kg-dry	10	08/27/13 18:03
Benzo(k)fluoranthene	740		140	310	µg/Kg-dry	10	08/27/13 18:03
Chrysene	1,000		120	310	µg/Kg-dry	10	08/27/13 18:03
Dibenzo(a,h)anthracene	750		180	310	µg/Kg-dry	10	08/27/13 18:03
Fluoranthene	2,400		120	310	µg/Kg-dry	10	08/27/13 18:03

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-068
Collection Date: 08/20/13 09:25 AM

Work Order: 1308936
Lab ID: 1308936-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		91	310	µg/Kg-dry	10	08/27/13 18:03
Indeno(1,2,3-cd)pyrene	1,300		200	310	µg/Kg-dry	10	08/27/13 18:03
Naphthalene	U		89	310	µg/Kg-dry	10	08/27/13 18:03
Phenanthrene	1,400		310	310	µg/Kg-dry	10	08/27/13 18:03
Pyrene	2,100		130	310	µg/Kg-dry	10	08/27/13 18:03
Surr: 2-Fluorobiphenyl	74.4			12-100	%REC	10	08/27/13 18:03
Surr: 4-Terphenyl-d14	115			25-137	%REC	10	08/27/13 18:03
Surr: Nitrobenzene-d5	80.6			37-107	%REC	10	08/27/13 18:03
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: AK
BatchID: 50820							
1,1,1-Trichloroethane	U		14	37	µg/Kg-dry	1	08/27/13 15:27
1,1,2,2-Tetrachloroethane	U		16	37	µg/Kg-dry	1	08/27/13 15:27
1,1,2-Trichloroethane	U		13	37	µg/Kg-dry	1	08/27/13 15:27
1,1,2-Trichlorotrifluoroethane	U		14	37	µg/Kg-dry	1	08/27/13 15:27
1,1-Dichloroethane	U		14	37	µg/Kg-dry	1	08/27/13 15:27
1,1-Dichloroethene	U		16	37	µg/Kg-dry	1	08/27/13 15:27
1,2,4-Trichlorobenzene	U		19	37	µg/Kg-dry	1	08/27/13 15:27
1,2-Dibromo-3-chloropropane	U		18	37	µg/Kg-dry	1	08/27/13 15:27
1,2-Dibromoethane	U		15	37	µg/Kg-dry	1	08/27/13 15:27
1,2-Dichlorobenzene	U		15	37	µg/Kg-dry	1	08/27/13 15:27
1,2-Dichloroethane	U		18	37	µg/Kg-dry	1	08/27/13 15:27
1,2-Dichloropropane	U		12	37	µg/Kg-dry	1	08/27/13 15:27
1,3-Dichlorobenzene	U		15	37	µg/Kg-dry	1	08/27/13 15:27
1,4-Dichlorobenzene	U		14	37	µg/Kg-dry	1	08/27/13 15:27
2-Butanone	U		91	250	µg/Kg-dry	1	08/27/13 15:27
2-Hexanone	U		9.1	37	µg/Kg-dry	1	08/27/13 15:27
4-Methyl-2-pentanone	U		12	37	µg/Kg-dry	1	08/27/13 15:27
Acetone	U		78	120	µg/Kg-dry	1	08/27/13 15:27
Benzene	26	J	15	37	µg/Kg-dry	1	08/27/13 15:27
Bromodichloromethane	U		8.3	37	µg/Kg-dry	1	08/27/13 15:27
Bromoform	U		7.3	37	µg/Kg-dry	1	08/27/13 15:27
Bromomethane	U		14	92	µg/Kg-dry	1	08/27/13 15:27
Carbon disulfide	U		18	37	µg/Kg-dry	1	08/27/13 15:27
Carbon tetrachloride	U		10	37	µg/Kg-dry	1	08/27/13 15:27
Chlorobenzene	U		15	37	µg/Kg-dry	1	08/27/13 15:27
Chloroethane	U		78	120	µg/Kg-dry	1	08/27/13 15:27
Chloroform	U		15	37	µg/Kg-dry	1	08/27/13 15:27
Chloromethane	U		21	120	µg/Kg-dry	1	08/27/13 15:27
cis-1,2-Dichloroethene	U		15	37	µg/Kg-dry	1	08/27/13 15:27

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-068
Collection Date: 08/20/13 09:25 AM

Work Order: 1308936
Lab ID: 1308936-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		13	37	µg/Kg-dry	1	08/27/13 15:27
Cyclohexane	U		17	37	µg/Kg-dry	1	08/27/13 15:27
Dibromochloromethane	U		6.8	37	µg/Kg-dry	1	08/27/13 15:27
Dichlorodifluoromethane	U		17	37	µg/Kg-dry	1	08/27/13 15:27
Ethylbenzene	27	J	14	37	µg/Kg-dry	1	08/27/13 15:27
Isopropylbenzene	U		16	37	µg/Kg-dry	1	08/27/13 15:27
Methyl acetate	U		50	250	µg/Kg-dry	1	08/27/13 15:27
Methyl tert-butyl ether	U		16	37	µg/Kg-dry	1	08/27/13 15:27
Methylcyclohexane	U		17	37	µg/Kg-dry	1	08/27/13 15:27
Methylene chloride	86	J	14	86	µg/Kg-dry	1	08/27/13 15:27
Styrene	U		14	37	µg/Kg-dry	1	08/27/13 15:27
Tetrachloroethene	U		16	37	µg/Kg-dry	1	08/27/13 15:27
Toluene	52		14	37	µg/Kg-dry	1	08/27/13 15:27
trans-1,2-Dichloroethene	U		11	37	µg/Kg-dry	1	08/27/13 15:27
trans-1,3-Dichloropropene	U		12	37	µg/Kg-dry	1	08/27/13 15:27
Trichloroethene	400		17	37	µg/Kg-dry	1	08/27/13 15:27
Trichlorofluoromethane	U		10	37	µg/Kg-dry	1	08/27/13 15:27
Vinyl chloride	U		17	37	µg/Kg-dry	1	08/27/13 15:27
Xylenes, Total	110		44	110	µg/Kg-dry	1	08/27/13 15:27
Surr: 1,2-Dichloroethane-d4	98.0			70-130	%REC	1	08/27/13 15:27
Surr: 4-Bromofluorobenzene	102			70-130	%REC	1	08/27/13 15:27
Surr: Dibromofluoromethane	96.5			70-130	%REC	1	08/27/13 15:27
Surr: Toluene-d8	95.1			70-130	%REC	1	08/27/13 15:27
MOISTURE			A2540 G			Analyst: LR	
BatchID: R125753							
Moisture	6.2		0.025	0.050	% of sample	1	08/26/13 21:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-069
Collection Date: 08/20/13 09:30 AM

Work Order: 1308936
Lab ID: 1308936-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/26/13	Analyst: LR
BatchID: 50800							
Mercury	0.012	J	0.00076	0.038	mg/Kg-dry	1	08/26/13 17:48
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
BatchID: 50801							
Antimony	0.15	J	0.0015	0.39	mg/Kg-dry	1	08/28/13 00:04
Arsenic	1.4		0.052	0.39	mg/Kg-dry	1	08/28/13 00:04
Barium	23		0.011	0.39	mg/Kg-dry	1	08/28/13 00:04
Beryllium	0.076	J	0.0031	0.15	mg/Kg-dry	1	08/28/13 00:04
Cadmium	0.11	J	0.0015	0.15	mg/Kg-dry	1	08/28/13 00:04
Chromium	7.9		0.063	0.39	mg/Kg-dry	1	08/28/13 00:04
Cobalt	2.1		0.0015	0.39	mg/Kg-dry	1	08/28/13 00:04
Copper	10		0.076	0.39	mg/Kg-dry	1	08/28/13 00:04
Iron	5,900		1.3	12	mg/Kg-dry	1	08/28/13 00:04
Lead	9.2		0.0015	0.39	mg/Kg-dry	1	08/28/13 00:04
Molybdenum	0.73		0.017	0.39	mg/Kg-dry	1	08/28/13 00:04
Nickel	6.8		0.039	0.39	mg/Kg-dry	1	08/28/13 00:04
Selenium	0.28	J	0.049	0.39	mg/Kg-dry	1	08/28/13 00:04
Silver	0.019	J	0.0015	0.39	mg/Kg-dry	1	08/28/13 00:04
Thallium	0.050	J	0.0093	0.39	mg/Kg-dry	1	08/28/13 00:04
Vanadium	8.0		0.023	0.39	mg/Kg-dry	1	08/28/13 00:04
Zinc	15		0.032	0.77	mg/Kg-dry	1	08/28/13 00:04
BatchID: 50801							
Manganese	160		0.34	3.9	mg/Kg-dry	10	08/28/13 19:25
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/26/13	Analyst: RM
BatchID: 50815							
2-Methylnaphthalene	60	J	10	84	µg/Kg-dry	1	08/27/13 18:22
Acenaphthene	U		9.5	31	µg/Kg-dry	1	08/27/13 18:22
Acenaphthylene	25	J	9.9	31	µg/Kg-dry	1	08/27/13 18:22
Anthracene	63		11	31	µg/Kg-dry	1	08/27/13 18:22
Benzo(a)anthracene	180		13	31	µg/Kg-dry	1	08/27/13 18:22
Benzo(a)pyrene	210		16	31	µg/Kg-dry	1	08/27/13 18:22
Benzo(b)fluoranthene	260		17	31	µg/Kg-dry	1	08/27/13 18:22
Benzo(g,h,i)perylene	190		25	31	µg/Kg-dry	1	08/27/13 18:22
Benzo(k)fluoranthene	120		14	31	µg/Kg-dry	1	08/27/13 18:22
Chrysene	170		12	31	µg/Kg-dry	1	08/27/13 18:22
Dibenzo(a,h)anthracene	86		18	31	µg/Kg-dry	1	08/27/13 18:22
Fluoranthene	310		12	31	µg/Kg-dry	1	08/27/13 18:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-069
Collection Date: 08/20/13 09:30 AM

Work Order: 1308936
Lab ID: 1308936-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		9.1	31	µg/Kg-dry	1	08/27/13 18:22
Indeno(1,2,3-cd)pyrene	220		20	31	µg/Kg-dry	1	08/27/13 18:22
Naphthalene	22	J	8.9	31	µg/Kg-dry	1	08/27/13 18:22
Phenanthrene	160		31	31	µg/Kg-dry	1	08/27/13 18:22
Pyrene	360		13	31	µg/Kg-dry	1	08/27/13 18:22
Surr: 2-Fluorobiphenyl	76.1			12-100	%REC	1	08/27/13 18:22
Surr: 4-Terphenyl-d14	122			25-137	%REC	1	08/27/13 18:22
Surr: Nitrobenzene-d5	69.0			37-107	%REC	1	08/27/13 18:22
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: AK
BatchID: 50820							
1,1,1-Trichloroethane	U		13	35	µg/Kg-dry	1	08/27/13 15:53
1,1,2,2-Tetrachloroethane	U		15	35	µg/Kg-dry	1	08/27/13 15:53
1,1,2-Trichloroethane	U		12	35	µg/Kg-dry	1	08/27/13 15:53
1,1,2-Trichlorotrifluoroethane	U		13	35	µg/Kg-dry	1	08/27/13 15:53
1,1-Dichloroethane	U		13	35	µg/Kg-dry	1	08/27/13 15:53
1,1-Dichloroethene	U		15	35	µg/Kg-dry	1	08/27/13 15:53
1,2,4-Trichlorobenzene	U		18	35	µg/Kg-dry	1	08/27/13 15:53
1,2-Dibromo-3-chloropropane	U		17	35	µg/Kg-dry	1	08/27/13 15:53
1,2-Dibromoethane	U		14	35	µg/Kg-dry	1	08/27/13 15:53
1,2-Dichlorobenzene	U		14	35	µg/Kg-dry	1	08/27/13 15:53
1,2-Dichloroethane	U		16	35	µg/Kg-dry	1	08/27/13 15:53
1,2-Dichloropropane	U		11	35	µg/Kg-dry	1	08/27/13 15:53
1,3-Dichlorobenzene	U		14	35	µg/Kg-dry	1	08/27/13 15:53
1,4-Dichlorobenzene	U		13	35	µg/Kg-dry	1	08/27/13 15:53
2-Butanone	U		86	230	µg/Kg-dry	1	08/27/13 15:53
2-Hexanone	U		8.5	35	µg/Kg-dry	1	08/27/13 15:53
4-Methyl-2-pentanone	U		12	35	µg/Kg-dry	1	08/27/13 15:53
Acetone	U		73	120	µg/Kg-dry	1	08/27/13 15:53
Benzene	U		14	35	µg/Kg-dry	1	08/27/13 15:53
Bromodichloromethane	U		7.8	35	µg/Kg-dry	1	08/27/13 15:53
Bromoform	U		6.8	35	µg/Kg-dry	1	08/27/13 15:53
Bromomethane	U		13	87	µg/Kg-dry	1	08/27/13 15:53
Carbon disulfide	U		17	35	µg/Kg-dry	1	08/27/13 15:53
Carbon tetrachloride	U		9.9	35	µg/Kg-dry	1	08/27/13 15:53
Chlorobenzene	U		14	35	µg/Kg-dry	1	08/27/13 15:53
Chloroethane	U		74	120	µg/Kg-dry	1	08/27/13 15:53
Chloroform	U		14	35	µg/Kg-dry	1	08/27/13 15:53
Chloromethane	U		19	120	µg/Kg-dry	1	08/27/13 15:53
cis-1,2-Dichloroethene	U		14	35	µg/Kg-dry	1	08/27/13 15:53

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-069
Collection Date: 08/20/13 09:30 AM

Work Order: 1308936
Lab ID: 1308936-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		12	35	µg/Kg-dry	1	08/27/13 15:53
Cyclohexane	U		16	35	µg/Kg-dry	1	08/27/13 15:53
Dibromochloromethane	U		6.4	35	µg/Kg-dry	1	08/27/13 15:53
Dichlorodifluoromethane	U		16	35	µg/Kg-dry	1	08/27/13 15:53
Ethylbenzene	U		13	35	µg/Kg-dry	1	08/27/13 15:53
Isopropylbenzene	U		15	35	µg/Kg-dry	1	08/27/13 15:53
Methyl acetate	U		47	230	µg/Kg-dry	1	08/27/13 15:53
Methyl tert-butyl ether	U		15	35	µg/Kg-dry	1	08/27/13 15:53
Methylcyclohexane	U		16	35	µg/Kg-dry	1	08/27/13 15:53
Methylene chloride	U		14	35	µg/Kg-dry	1	08/27/13 15:53
Styrene	U		13	35	µg/Kg-dry	1	08/27/13 15:53
Tetrachloroethene	U		15	35	µg/Kg-dry	1	08/27/13 15:53
Toluene	U		13	35	µg/Kg-dry	1	08/27/13 15:53
trans-1,2-Dichloroethene	U		11	35	µg/Kg-dry	1	08/27/13 15:53
trans-1,3-Dichloropropene	U		12	35	µg/Kg-dry	1	08/27/13 15:53
Trichloroethene	250		16	35	µg/Kg-dry	1	08/27/13 15:53
Trichlorofluoromethane	U		9.6	35	µg/Kg-dry	1	08/27/13 15:53
Vinyl chloride	U		16	35	µg/Kg-dry	1	08/27/13 15:53
Xylenes, Total	U		41	100	µg/Kg-dry	1	08/27/13 15:53
Surr: 1,2-Dichloroethane-d4	98.6			70-130	%REC	1	08/27/13 15:53
Surr: 4-Bromofluorobenzene	104			70-130	%REC	1	08/27/13 15:53
Surr: Dibromofluoromethane	94.4			70-130	%REC	1	08/27/13 15:53
Surr: Toluene-d8	93.4			70-130	%REC	1	08/27/13 15:53
MOISTURE			A2540 G				Analyst: LR
BatchID: R125753							
Moisture	5.8		0.025	0.050	% of sample	1	08/26/13 21:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-070
Collection Date: 08/20/13 09:35 AM

Work Order: 1308936
Lab ID: 1308936-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/26/13	Analyst: LR
BatchID: 50800							
Mercury	0.013	J	0.00071	0.036	mg/Kg-dry	1	08/26/13 17:50
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
BatchID: 50801							
Antimony	0.19	J	0.0016	0.39	mg/Kg-dry	1	08/28/13 00:11
Arsenic	1.7		0.053	0.39	mg/Kg-dry	1	08/28/13 00:11
Barium	21		0.011	0.39	mg/Kg-dry	1	08/28/13 00:11
Beryllium	0.086	J	0.0031	0.16	mg/Kg-dry	1	08/28/13 00:11
Cadmium	0.11	J	0.0016	0.16	mg/Kg-dry	1	08/28/13 00:11
Chromium	7.3		0.064	0.39	mg/Kg-dry	1	08/28/13 00:11
Cobalt	2.2		0.0016	0.39	mg/Kg-dry	1	08/28/13 00:11
Copper	14		0.076	0.39	mg/Kg-dry	1	08/28/13 00:11
Iron	6,200		1.3	12	mg/Kg-dry	1	08/28/13 00:11
Lead	12		0.0016	0.39	mg/Kg-dry	1	08/28/13 00:11
Molybdenum	0.92		0.017	0.39	mg/Kg-dry	1	08/28/13 00:11
Nickel	6.7		0.039	0.39	mg/Kg-dry	1	08/28/13 00:11
Selenium	0.30	J	0.050	0.39	mg/Kg-dry	1	08/28/13 00:11
Silver	0.069	J	0.0016	0.39	mg/Kg-dry	1	08/28/13 00:11
Thallium	0.047	J	0.0093	0.39	mg/Kg-dry	1	08/28/13 00:11
Vanadium	11		0.023	0.39	mg/Kg-dry	1	08/28/13 00:11
Zinc	18		0.033	0.78	mg/Kg-dry	1	08/28/13 00:11
BatchID: 50801							
Manganese	160		0.34	3.9	mg/Kg-dry	10	08/28/13 21:25
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/26/13	Analyst: RM
BatchID: 50815							
2-Methylnaphthalene	49	J	10	83	µg/Kg-dry	1	08/27/13 18:42
Acenaphthene	19	J	9.5	31	µg/Kg-dry	1	08/27/13 18:42
Acenaphthylene	27	J	9.8	31	µg/Kg-dry	1	08/27/13 18:42
Anthracene	92		11	31	µg/Kg-dry	1	08/27/13 18:42
Benzo(a)anthracene	310		13	31	µg/Kg-dry	1	08/27/13 18:42
Benzo(a)pyrene	310		16	31	µg/Kg-dry	1	08/27/13 18:42
Benzo(b)fluoranthene	410		17	31	µg/Kg-dry	1	08/27/13 18:42
Benzo(g,h,i)perylene	270		24	31	µg/Kg-dry	1	08/27/13 18:42
Benzo(k)fluoranthene	160		14	31	µg/Kg-dry	1	08/27/13 18:42
Chrysene	300		12	31	µg/Kg-dry	1	08/27/13 18:42
Dibenzo(a,h)anthracene	120		18	31	µg/Kg-dry	1	08/27/13 18:42
Fluoranthene	510		12	31	µg/Kg-dry	1	08/27/13 18:42

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-070
Collection Date: 08/20/13 09:35 AM

Work Order: 1308936
Lab ID: 1308936-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	20	J	9.1	31	µg/Kg-dry	1	08/27/13 18:42
Indeno(1,2,3-cd)pyrene	330		20	31	µg/Kg-dry	1	08/27/13 18:42
Naphthalene	18	J	8.8	31	µg/Kg-dry	1	08/27/13 18:42
Phenanthrene	310		31	31	µg/Kg-dry	1	08/27/13 18:42
Pyrene	580		13	31	µg/Kg-dry	1	08/27/13 18:42
Surr: 2-Fluorobiphenyl	73.4			12-100	%REC	1	08/27/13 18:42
Surr: 4-Terphenyl-d14	110			25-137	%REC	1	08/27/13 18:42
Surr: Nitrobenzene-d5	68.4			37-107	%REC	1	08/27/13 18:42
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: AK
BatchID: 50820							
1,1,1-Trichloroethane	U		13	34	µg/Kg-dry	1	08/27/13 16:18
1,1,2,2-Tetrachloroethane	U		15	34	µg/Kg-dry	1	08/27/13 16:18
1,1,2-Trichloroethane	U		12	34	µg/Kg-dry	1	08/27/13 16:18
1,1,2-Trichlorotrifluoroethane	U		12	34	µg/Kg-dry	1	08/27/13 16:18
1,1-Dichloroethane	U		12	34	µg/Kg-dry	1	08/27/13 16:18
1,1-Dichloroethene	U		14	34	µg/Kg-dry	1	08/27/13 16:18
1,2,4-Trichlorobenzene	U		17	34	µg/Kg-dry	1	08/27/13 16:18
1,2-Dibromo-3-chloropropane	U		16	34	µg/Kg-dry	1	08/27/13 16:18
1,2-Dibromoethane	U		13	34	µg/Kg-dry	1	08/27/13 16:18
1,2-Dichlorobenzene	U		13	34	µg/Kg-dry	1	08/27/13 16:18
1,2-Dichloroethane	U		16	34	µg/Kg-dry	1	08/27/13 16:18
1,2-Dichloropropane	U		11	34	µg/Kg-dry	1	08/27/13 16:18
1,3-Dichlorobenzene	U		13	34	µg/Kg-dry	1	08/27/13 16:18
1,4-Dichlorobenzene	U		13	34	µg/Kg-dry	1	08/27/13 16:18
2-Butanone	U		83	220	µg/Kg-dry	1	08/27/13 16:18
2-Hexanone	U		8.3	34	µg/Kg-dry	1	08/27/13 16:18
4-Methyl-2-pentanone	U		11	34	µg/Kg-dry	1	08/27/13 16:18
Acetone	92	J	71	110	µg/Kg-dry	1	08/27/13 16:18
Benzene	U		14	34	µg/Kg-dry	1	08/27/13 16:18
Bromodichloromethane	U		7.6	34	µg/Kg-dry	1	08/27/13 16:18
Bromoform	U		6.6	34	µg/Kg-dry	1	08/27/13 16:18
Bromomethane	U		13	84	µg/Kg-dry	1	08/27/13 16:18
Carbon disulfide	U		17	34	µg/Kg-dry	1	08/27/13 16:18
Carbon tetrachloride	U		9.6	34	µg/Kg-dry	1	08/27/13 16:18
Chlorobenzene	U		14	34	µg/Kg-dry	1	08/27/13 16:18
Chloroethane	U		72	110	µg/Kg-dry	1	08/27/13 16:18
Chloroform	U		14	34	µg/Kg-dry	1	08/27/13 16:18
Chloromethane	U		19	110	µg/Kg-dry	1	08/27/13 16:18
cis-1,2-Dichloroethene	U		14	34	µg/Kg-dry	1	08/27/13 16:18

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-070
Collection Date: 08/20/13 09:35 AM

Work Order: 1308936
Lab ID: 1308936-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		12	34	µg/Kg-dry	1	08/27/13 16:18
Cyclohexane	U		15	34	µg/Kg-dry	1	08/27/13 16:18
Dibromochloromethane	U		6.2	34	µg/Kg-dry	1	08/27/13 16:18
Dichlorodifluoromethane	U		15	34	µg/Kg-dry	1	08/27/13 16:18
Ethylbenzene	U		13	34	µg/Kg-dry	1	08/27/13 16:18
Isopropylbenzene	U		15	34	µg/Kg-dry	1	08/27/13 16:18
Methyl acetate	U		45	220	µg/Kg-dry	1	08/27/13 16:18
Methyl tert-butyl ether	U		14	34	µg/Kg-dry	1	08/27/13 16:18
Methylcyclohexane	U		16	34	µg/Kg-dry	1	08/27/13 16:18
Methylene chloride	U		13	34	µg/Kg-dry	1	08/27/13 16:18
Styrene	U		13	34	µg/Kg-dry	1	08/27/13 16:18
Tetrachloroethene	U		15	34	µg/Kg-dry	1	08/27/13 16:18
Toluene	U		13	34	µg/Kg-dry	1	08/27/13 16:18
trans-1,2-Dichloroethene	U		10	34	µg/Kg-dry	1	08/27/13 16:18
trans-1,3-Dichloropropene	U		11	34	µg/Kg-dry	1	08/27/13 16:18
Trichloroethene	220		16	34	µg/Kg-dry	1	08/27/13 16:18
Trichlorofluoromethane	U		9.3	34	µg/Kg-dry	1	08/27/13 16:18
Vinyl chloride	U		15	34	µg/Kg-dry	1	08/27/13 16:18
Xylenes, Total	U		40	100	µg/Kg-dry	1	08/27/13 16:18
Surr: 1,2-Dichloroethane-d4	99.4			70-130	%REC	1	08/27/13 16:18
Surr: 4-Bromofluorobenzene	104			70-130	%REC	1	08/27/13 16:18
Surr: Dibromofluoromethane	97.0			70-130	%REC	1	08/27/13 16:18
Surr: Toluene-d8	94.8			70-130	%REC	1	08/27/13 16:18
MOISTURE			A2540 G			Analyst: LR	
BatchID: R125753							
Moisture	5.4		0.025	0.050	% of sample	1	08/26/13 21:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-071
Collection Date: 08/20/13 09:40 AM

Work Order: 1308936
Lab ID: 1308936-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471			Prep: SW7471 / 8/26/13	Analyst: LR
BatchID: <u>50800</u>							
Mercury	0.028	J	0.00073	0.037	mg/Kg-dry	1	08/26/13 17:58
METALS BY ICP-MS			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
BatchID: <u>50801</u>							
Antimony	0.35	J	0.0016	0.39	mg/Kg-dry	1	08/28/13 00:17
Arsenic	1.5		0.053	0.39	mg/Kg-dry	1	08/28/13 00:17
Barium	35		0.011	0.39	mg/Kg-dry	1	08/28/13 00:17
Beryllium	0.13	J	0.0031	0.16	mg/Kg-dry	1	08/28/13 00:17
Cadmium	0.14	J	0.0016	0.16	mg/Kg-dry	1	08/28/13 00:17
Chromium	5.8		0.064	0.39	mg/Kg-dry	1	08/28/13 00:17
Cobalt	1.8		0.0016	0.39	mg/Kg-dry	1	08/28/13 00:17
Copper	8.7		0.077	0.39	mg/Kg-dry	1	08/28/13 00:17
Iron	4,800		1.3	13	mg/Kg-dry	1	08/28/13 00:17
Lead	17		0.0016	0.39	mg/Kg-dry	1	08/28/13 00:17
Molybdenum	0.41		0.017	0.39	mg/Kg-dry	1	08/28/13 00:17
Nickel	5.0		0.039	0.39	mg/Kg-dry	1	08/28/13 00:17
Selenium	0.31	J	0.050	0.39	mg/Kg-dry	1	08/28/13 00:17
Silver	0.021	J	0.0016	0.39	mg/Kg-dry	1	08/28/13 00:17
Thallium	0.054	J	0.0094	0.39	mg/Kg-dry	1	08/28/13 00:17
Vanadium	7.5		0.024	0.39	mg/Kg-dry	1	08/28/13 00:17
Zinc	17		0.033	0.78	mg/Kg-dry	1	08/28/13 00:17
BatchID: <u>50801</u>							
Manganese	250		0.34	3.9	mg/Kg-dry	10	08/28/13 21:32
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3541 / 8/26/13	Analyst: RM
BatchID: <u>50815</u>							
2-Methylnaphthalene	87		10	84	µg/Kg-dry	1	08/27/13 19:01
Acenaphthene	U		9.5	31	µg/Kg-dry	1	08/27/13 19:01
Acenaphthylene	28	J	9.9	31	µg/Kg-dry	1	08/27/13 19:01
Anthracene	45		11	31	µg/Kg-dry	1	08/27/13 19:01
Benzo(a)anthracene	56		13	31	µg/Kg-dry	1	08/27/13 19:01
Benzo(a)pyrene	99		16	31	µg/Kg-dry	1	08/27/13 19:01
Benzo(b)fluoranthene	150		17	31	µg/Kg-dry	1	08/27/13 19:01
Benzo(g,h,i)perylene	120		25	31	µg/Kg-dry	1	08/27/13 19:01
Benzo(k)fluoranthene	65		14	31	µg/Kg-dry	1	08/27/13 19:01
Chrysene	87		12	31	µg/Kg-dry	1	08/27/13 19:01
Dibenzo(a,h)anthracene	79		18	31	µg/Kg-dry	1	08/27/13 19:01
Fluoranthene	110		12	31	µg/Kg-dry	1	08/27/13 19:01

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-071
Collection Date: 08/20/13 09:40 AM

Work Order: 1308936
Lab ID: 1308936-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		9.1	31	µg/Kg-dry	1	08/27/13 19:01
Indeno(1,2,3-cd)pyrene	120		20	31	µg/Kg-dry	1	08/27/13 19:01
Naphthalene	54		8.9	31	µg/Kg-dry	1	08/27/13 19:01
Phenanthrene	100		31	31	µg/Kg-dry	1	08/27/13 19:01
Pyrene	98		13	31	µg/Kg-dry	1	08/27/13 19:01
Surr: 2-Fluorobiphenyl	79.5			12-100	%REC	1	08/27/13 19:01
Surr: 4-Terphenyl-d14	113			25-137	%REC	1	08/27/13 19:01
Surr: Nitrobenzene-d5	70.5			37-107	%REC	1	08/27/13 19:01
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: AK
BatchID: 50820							
1,1,1-Trichloroethane	U		12	32	µg/Kg-dry	1	08/27/13 16:43
1,1,2,2-Tetrachloroethane	U		14	32	µg/Kg-dry	1	08/27/13 16:43
1,1,2-Trichloroethane	U		11	32	µg/Kg-dry	1	08/27/13 16:43
1,1,2-Trichlorotrifluoroethane	U		12	32	µg/Kg-dry	1	08/27/13 16:43
1,1-Dichloroethane	U		12	32	µg/Kg-dry	1	08/27/13 16:43
1,1-Dichloroethene	U		13	32	µg/Kg-dry	1	08/27/13 16:43
1,2,4-Trichlorobenzene	U		17	32	µg/Kg-dry	1	08/27/13 16:43
1,2-Dibromo-3-chloropropane	U		16	32	µg/Kg-dry	1	08/27/13 16:43
1,2-Dibromoethane	U		13	32	µg/Kg-dry	1	08/27/13 16:43
1,2-Dichlorobenzene	U		13	32	µg/Kg-dry	1	08/27/13 16:43
1,2-Dichloroethane	U		15	32	µg/Kg-dry	1	08/27/13 16:43
1,2-Dichloropropane	U		11	32	µg/Kg-dry	1	08/27/13 16:43
1,3-Dichlorobenzene	U		13	32	µg/Kg-dry	1	08/27/13 16:43
1,4-Dichlorobenzene	U		12	32	µg/Kg-dry	1	08/27/13 16:43
2-Butanone	U		79	210	µg/Kg-dry	1	08/27/13 16:43
2-Hexanone	U		7.9	32	µg/Kg-dry	1	08/27/13 16:43
4-Methyl-2-pentanone	U		11	32	µg/Kg-dry	1	08/27/13 16:43
Acetone	U		68	110	µg/Kg-dry	1	08/27/13 16:43
Benzene	U		13	32	µg/Kg-dry	1	08/27/13 16:43
Bromodichloromethane	U		7.2	32	µg/Kg-dry	1	08/27/13 16:43
Bromoform	U		6.3	32	µg/Kg-dry	1	08/27/13 16:43
Bromomethane	U		12	80	µg/Kg-dry	1	08/27/13 16:43
Carbon disulfide	U		16	32	µg/Kg-dry	1	08/27/13 16:43
Carbon tetrachloride	U		9.1	32	µg/Kg-dry	1	08/27/13 16:43
Chlorobenzene	U		13	32	µg/Kg-dry	1	08/27/13 16:43
Chloroethane	U		68	110	µg/Kg-dry	1	08/27/13 16:43
Chloroform	U		13	32	µg/Kg-dry	1	08/27/13 16:43
Chloromethane	U		18	110	µg/Kg-dry	1	08/27/13 16:43
cis-1,2-Dichloroethene	U		13	32	µg/Kg-dry	1	08/27/13 16:43

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-071
Collection Date: 08/20/13 09:40 AM

Work Order: 1308936
Lab ID: 1308936-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		11	32	µg/Kg-dry	1	08/27/13 16:43
Cyclohexane	U		14	32	µg/Kg-dry	1	08/27/13 16:43
Dibromochloromethane	U		5.9	32	µg/Kg-dry	1	08/27/13 16:43
Dichlorodifluoromethane	U		14	32	µg/Kg-dry	1	08/27/13 16:43
Ethylbenzene	U		12	32	µg/Kg-dry	1	08/27/13 16:43
Isopropylbenzene	U		14	32	µg/Kg-dry	1	08/27/13 16:43
Methyl acetate	U		43	210	µg/Kg-dry	1	08/27/13 16:43
Methyl tert-butyl ether	U		14	32	µg/Kg-dry	1	08/27/13 16:43
Methylcyclohexane	U		15	32	µg/Kg-dry	1	08/27/13 16:43
Methylene chloride	U		13	32	µg/Kg-dry	1	08/27/13 16:43
Styrene	U		12	32	µg/Kg-dry	1	08/27/13 16:43
Tetrachloroethene	U		14	32	µg/Kg-dry	1	08/27/13 16:43
Toluene	28	J	12	32	µg/Kg-dry	1	08/27/13 16:43
trans-1,2-Dichloroethene	U		9.9	32	µg/Kg-dry	1	08/27/13 16:43
trans-1,3-Dichloropropene	U		11	32	µg/Kg-dry	1	08/27/13 16:43
Trichloroethene	1,300		15	32	µg/Kg-dry	1	08/27/13 16:43
Trichlorofluoromethane	U		8.8	32	µg/Kg-dry	1	08/27/13 16:43
Vinyl chloride	U		14	32	µg/Kg-dry	1	08/27/13 16:43
Xylenes, Total	57	J	38	96	µg/Kg-dry	1	08/27/13 16:43
Surr: 1,2-Dichloroethane-d4	97.4			70-130	%REC	1	08/27/13 16:43
Surr: 4-Bromofluorobenzene	103			70-130	%REC	1	08/27/13 16:43
Surr: Dibromofluoromethane	94.2			70-130	%REC	1	08/27/13 16:43
Surr: Toluene-d8	93.8			70-130	%REC	1	08/27/13 16:43
MOISTURE			A2540 G			Analyst: LR	
BatchID: R125753							
Moisture	6.6		0.025	0.050	% of sample	1	08/26/13 21:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-072
Collection Date: 08/20/13 09:45 AM

Work Order: 1308936
Lab ID: 1308936-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471			Prep: SW7471 / 8/26/13	Analyst: LR
BatchID: <u>50800</u>							
Mercury	0.047		0.00083	0.042	mg/Kg-dry	1	08/26/13 18:00
METALS BY ICP-MS			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
BatchID: <u>50801</u>							
Antimony	0.38	J	0.0016	0.40	mg/Kg-dry	1	08/28/13 00:23
Arsenic	4.4		0.055	0.40	mg/Kg-dry	1	08/28/13 00:23
Barium	37		0.011	0.40	mg/Kg-dry	1	08/28/13 00:23
Beryllium	0.19		0.0032	0.16	mg/Kg-dry	1	08/28/13 00:23
Cadmium	0.27		0.0016	0.16	mg/Kg-dry	1	08/28/13 00:23
Chromium	7.6		0.066	0.40	mg/Kg-dry	1	08/28/13 00:23
Cobalt	3.0		0.0016	0.40	mg/Kg-dry	1	08/28/13 00:23
Copper	17		0.079	0.40	mg/Kg-dry	1	08/28/13 00:23
Iron	9,200		1.3	13	mg/Kg-dry	1	08/28/13 00:23
Lead	24		0.0016	0.40	mg/Kg-dry	1	08/28/13 00:23
Manganese	140		0.035	0.40	mg/Kg-dry	1	08/28/13 00:23
Molybdenum	1.4		0.018	0.40	mg/Kg-dry	1	08/28/13 00:23
Nickel	9.1		0.040	0.40	mg/Kg-dry	1	08/28/13 00:23
Selenium	0.61		0.052	0.40	mg/Kg-dry	1	08/28/13 00:23
Silver	0.042	J	0.0016	0.40	mg/Kg-dry	1	08/28/13 00:23
Thallium	0.093	J	0.0097	0.40	mg/Kg-dry	1	08/28/13 00:23
Vanadium	8.7		0.024	0.40	mg/Kg-dry	1	08/28/13 00:23
Zinc	18		0.034	0.81	mg/Kg-dry	1	08/28/13 00:23
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3541 / 8/26/13	Analyst: RM
BatchID: <u>50815</u>							
2-Methylnaphthalene	720		11	87	µg/Kg-dry	1	08/28/13 14:58
Acenaphthene	300		9.9	33	µg/Kg-dry	1	08/28/13 14:58
Acenaphthylene	48		10	33	µg/Kg-dry	1	08/28/13 14:58
Anthracene	180		11	33	µg/Kg-dry	1	08/28/13 14:58
Benzo(a)anthracene	280		13	33	µg/Kg-dry	1	08/28/13 14:58
Benzo(a)pyrene	280		17	33	µg/Kg-dry	1	08/28/13 14:58
Benzo(b)fluoranthene	410		18	33	µg/Kg-dry	1	08/28/13 14:58
Benzo(g,h,i)perylene	230		26	33	µg/Kg-dry	1	08/28/13 14:58
Benzo(k)fluoranthene	150		15	33	µg/Kg-dry	1	08/28/13 14:58
Chrysene	360		12	33	µg/Kg-dry	1	08/28/13 14:58
Dibenzo(a,h)anthracene	110		19	33	µg/Kg-dry	1	08/28/13 14:58
Fluoranthene	420		13	33	µg/Kg-dry	1	08/28/13 14:58
Fluorene	110		9.5	33	µg/Kg-dry	1	08/28/13 14:58

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-072
Collection Date: 08/20/13 09:45 AM

Work Order: 1308936
Lab ID: 1308936-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	290		21	33	µg/Kg-dry	1	08/28/13 14:58
Naphthalene	740		9.3	33	µg/Kg-dry	1	08/28/13 14:58
Phenanthrene	680		33	33	µg/Kg-dry	1	08/28/13 14:58
Pyrene	530		14	33	µg/Kg-dry	1	08/28/13 14:58
Surr: 2-Fluorobiphenyl	78.1			12-100	%REC	1	08/28/13 14:58
Surr: 4-Terphenyl-d14	111			25-137	%REC	1	08/28/13 14:58
Surr: Nitrobenzene-d5	66.0			37-107	%REC	1	08/28/13 14:58
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: AK
<u>BatchID: 50820</u>							
1,1,1-Trichloroethane	U		16	41	µg/Kg-dry	1	08/27/13 17:08
1,1,2,2-Tetrachloroethane	U		18	41	µg/Kg-dry	1	08/27/13 17:08
1,1,2-Trichloroethane	U		15	41	µg/Kg-dry	1	08/27/13 17:08
1,1,2-Trichlorotrifluoroethane	U		15	41	µg/Kg-dry	1	08/27/13 17:08
1,1-Dichloroethane	U		15	41	µg/Kg-dry	1	08/27/13 17:08
1,1-Dichloroethene	U		17	41	µg/Kg-dry	1	08/27/13 17:08
1,2,4-Trichlorobenzene	U		21	41	µg/Kg-dry	1	08/27/13 17:08
1,2-Dibromo-3-chloropropane	U		20	41	µg/Kg-dry	1	08/27/13 17:08
1,2-Dibromoethane	U		16	41	µg/Kg-dry	1	08/27/13 17:08
1,2-Dichlorobenzene	U		17	41	µg/Kg-dry	1	08/27/13 17:08
1,2-Dichloroethane	U		20	41	µg/Kg-dry	1	08/27/13 17:08
1,2-Dichloropropane	U		14	41	µg/Kg-dry	1	08/27/13 17:08
1,3-Dichlorobenzene	U		17	41	µg/Kg-dry	1	08/27/13 17:08
1,4-Dichlorobenzene	U		16	41	µg/Kg-dry	1	08/27/13 17:08
2-Butanone	U		100	280	µg/Kg-dry	1	08/27/13 17:08
2-Hexanone	U		10	41	µg/Kg-dry	1	08/27/13 17:08
4-Methyl-2-pentanone	U		14	41	µg/Kg-dry	1	08/27/13 17:08
Acetone	U		87	140	µg/Kg-dry	1	08/27/13 17:08
Benzene	U		17	41	µg/Kg-dry	1	08/27/13 17:08
Bromodichloromethane	U		9.3	41	µg/Kg-dry	1	08/27/13 17:08
Bromoform	U		8.1	41	µg/Kg-dry	1	08/27/13 17:08
Bromomethane	U		16	100	µg/Kg-dry	1	08/27/13 17:08
Carbon disulfide	U		20	41	µg/Kg-dry	1	08/27/13 17:08
Carbon tetrachloride	U		12	41	µg/Kg-dry	1	08/27/13 17:08
Chlorobenzene	U		17	41	µg/Kg-dry	1	08/27/13 17:08
Chloroethane	U		88	140	µg/Kg-dry	1	08/27/13 17:08
Chloroform	U		17	41	µg/Kg-dry	1	08/27/13 17:08
Chloromethane	U		23	140	µg/Kg-dry	1	08/27/13 17:08
cis-1,2-Dichloroethene	U		17	41	µg/Kg-dry	1	08/27/13 17:08
cis-1,3-Dichloropropene	U		14	41	µg/Kg-dry	1	08/27/13 17:08

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-072
Collection Date: 08/20/13 09:45 AM

Work Order: 1308936
Lab ID: 1308936-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		19	41	µg/Kg-dry	1	08/27/13 17:08
Dibromochloromethane	U		7.6	41	µg/Kg-dry	1	08/27/13 17:08
Dichlorodifluoromethane	U		19	41	µg/Kg-dry	1	08/27/13 17:08
Ethylbenzene	35	J	15	41	µg/Kg-dry	1	08/27/13 17:08
Isopropylbenzene	33	J	18	41	µg/Kg-dry	1	08/27/13 17:08
Methyl acetate	U		55	280	µg/Kg-dry	1	08/27/13 17:08
Methyl tert-butyl ether	U		17	41	µg/Kg-dry	1	08/27/13 17:08
Methylcyclohexane	260		19	41	µg/Kg-dry	1	08/27/13 17:08
Methylene chloride	U		16	41	µg/Kg-dry	1	08/27/13 17:08
Styrene	U		15	41	µg/Kg-dry	1	08/27/13 17:08
Tetrachloroethene	U		18	41	µg/Kg-dry	1	08/27/13 17:08
Toluene	98		15	41	µg/Kg-dry	1	08/27/13 17:08
trans-1,2-Dichloroethene	U		13	41	µg/Kg-dry	1	08/27/13 17:08
trans-1,3-Dichloropropene	U		14	41	µg/Kg-dry	1	08/27/13 17:08
Trichloroethene	4,900		19	41	µg/Kg-dry	1	08/27/13 17:08
Trichlorofluoromethane	U		11	41	µg/Kg-dry	1	08/27/13 17:08
Vinyl chloride	U		19	41	µg/Kg-dry	1	08/27/13 17:08
Xylenes, Total	230		49	120	µg/Kg-dry	1	08/27/13 17:08
Surr: 1,2-Dichloroethane-d4	102			70-130	%REC	1	08/27/13 17:08
Surr: 4-Bromofluorobenzene	107			70-130	%REC	1	08/27/13 17:08
Surr: Dibromofluoromethane	95.4			70-130	%REC	1	08/27/13 17:08
Surr: Toluene-d8	96.6			70-130	%REC	1	08/27/13 17:08
MOISTURE			A2540 G				Analyst: LR
BatchID: R125753							
Moisture	10		0.025	0.050	% of sample	1	08/26/13 21:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-073
Collection Date: 08/20/13 10:50 AM

Work Order: 1308936
Lab ID: 1308936-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/26/13	Analyst: LR
BatchID: 50800							
Mercury	0.027	J	0.00076	0.038	mg/Kg-dry	1	08/26/13 18:02
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
BatchID: 50801							
Antimony	0.53		0.0015	0.39	mg/Kg-dry	1	08/28/13 00:29
Arsenic	2.3		0.052	0.39	mg/Kg-dry	1	08/28/13 00:29
Barium	44		0.011	0.39	mg/Kg-dry	1	08/28/13 00:29
Beryllium	0.11	J	0.0031	0.15	mg/Kg-dry	1	08/28/13 00:29
Cadmium	0.22		0.0015	0.15	mg/Kg-dry	1	08/28/13 00:29
Chromium	48		0.063	0.39	mg/Kg-dry	1	08/28/13 00:29
Cobalt	3.1		0.0015	0.39	mg/Kg-dry	1	08/28/13 00:29
Copper	16		0.076	0.39	mg/Kg-dry	1	08/28/13 00:29
Iron	9,700		1.3	12	mg/Kg-dry	1	08/28/13 00:29
Lead	44		0.0015	0.39	mg/Kg-dry	1	08/28/13 00:29
Molybdenum	6.2		0.017	0.39	mg/Kg-dry	1	08/28/13 00:29
Nickel	42		0.039	0.39	mg/Kg-dry	1	08/28/13 00:29
Selenium	0.42		0.049	0.39	mg/Kg-dry	1	08/28/13 00:29
Silver	0.13	J	0.0015	0.39	mg/Kg-dry	1	08/28/13 00:29
Thallium	0.062	J	0.0093	0.39	mg/Kg-dry	1	08/28/13 00:29
Vanadium	10		0.023	0.39	mg/Kg-dry	1	08/28/13 00:29
Zinc	30		0.032	0.77	mg/Kg-dry	1	08/28/13 00:29
BatchID: 50801							
Manganese	220		0.34	3.9	mg/Kg-dry	10	08/28/13 21:38
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/26/13	Analyst: RM
BatchID: 50815							
2-Methylnaphthalene	U		110	860	µg/Kg-dry	10	08/27/13 19:40
Acenaphthene	U		98	320	µg/Kg-dry	10	08/27/13 19:40
Acenaphthylene	U		100	320	µg/Kg-dry	10	08/27/13 19:40
Anthracene	540		110	320	µg/Kg-dry	10	08/27/13 19:40
Benzo(a)anthracene	870		130	320	µg/Kg-dry	10	08/27/13 19:40
Benzo(a)pyrene	1,200		170	320	µg/Kg-dry	10	08/27/13 19:40
Benzo(b)fluoranthene	1,300		170	320	µg/Kg-dry	10	08/27/13 19:40
Benzo(g,h,i)perylene	980		250	320	µg/Kg-dry	10	08/27/13 19:40
Benzo(k)fluoranthene	640		150	320	µg/Kg-dry	10	08/27/13 19:40
Chrysene	780		120	320	µg/Kg-dry	10	08/27/13 19:40
Dibenzo(a,h)anthracene	740		180	320	µg/Kg-dry	10	08/27/13 19:40
Fluoranthene	2,100		130	320	µg/Kg-dry	10	08/27/13 19:40

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-073
Collection Date: 08/20/13 10:50 AM

Work Order: 1308936
Lab ID: 1308936-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		94	320	µg/Kg-dry	10	08/27/13 19:40
Indeno(1,2,3-cd)pyrene	930		200	320	µg/Kg-dry	10	08/27/13 19:40
Naphthalene	U		91	320	µg/Kg-dry	10	08/27/13 19:40
Phenanthrene	1,500		320	320	µg/Kg-dry	10	08/27/13 19:40
Pyrene	1,700		130	320	µg/Kg-dry	10	08/27/13 19:40
Surr: 2-Fluorobiphenyl	70.8			12-100	%REC	10	08/27/13 19:40
Surr: 4-Terphenyl-d14	100			25-137	%REC	10	08/27/13 19:40
Surr: Nitrobenzene-d5	77.6			37-107	%REC	10	08/27/13 19:40
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: AK
BatchID: 50820							
1,1,1-Trichloroethane	U		12	32	µg/Kg-dry	1	08/27/13 17:33
1,1,2,2-Tetrachloroethane	U		14	32	µg/Kg-dry	1	08/27/13 17:33
1,1,2-Trichloroethane	U		11	32	µg/Kg-dry	1	08/27/13 17:33
1,1,2-Trichlorotrifluoroethane	U		12	32	µg/Kg-dry	1	08/27/13 17:33
1,1-Dichloroethane	U		12	32	µg/Kg-dry	1	08/27/13 17:33
1,1-Dichloroethene	U		14	32	µg/Kg-dry	1	08/27/13 17:33
1,2,4-Trichlorobenzene	U		17	32	µg/Kg-dry	1	08/27/13 17:33
1,2-Dibromo-3-chloropropane	U		16	32	µg/Kg-dry	1	08/27/13 17:33
1,2-Dibromoethane	U		13	32	µg/Kg-dry	1	08/27/13 17:33
1,2-Dichlorobenzene	U		13	32	µg/Kg-dry	1	08/27/13 17:33
1,2-Dichloroethane	U		15	32	µg/Kg-dry	1	08/27/13 17:33
1,2-Dichloropropane	U		11	32	µg/Kg-dry	1	08/27/13 17:33
1,3-Dichlorobenzene	U		13	32	µg/Kg-dry	1	08/27/13 17:33
1,4-Dichlorobenzene	U		12	32	µg/Kg-dry	1	08/27/13 17:33
2-Butanone	U		80	210	µg/Kg-dry	1	08/27/13 17:33
2-Hexanone	U		7.9	32	µg/Kg-dry	1	08/27/13 17:33
4-Methyl-2-pentanone	U		11	32	µg/Kg-dry	1	08/27/13 17:33
Acetone	U		68	110	µg/Kg-dry	1	08/27/13 17:33
Benzene	U		13	32	µg/Kg-dry	1	08/27/13 17:33
Bromodichloromethane	U		7.2	32	µg/Kg-dry	1	08/27/13 17:33
Bromoform	U		6.3	32	µg/Kg-dry	1	08/27/13 17:33
Bromomethane	U		12	81	µg/Kg-dry	1	08/27/13 17:33
Carbon disulfide	U		16	32	µg/Kg-dry	1	08/27/13 17:33
Carbon tetrachloride	U		9.2	32	µg/Kg-dry	1	08/27/13 17:33
Chlorobenzene	U		13	32	µg/Kg-dry	1	08/27/13 17:33
Chloroethane	U		68	110	µg/Kg-dry	1	08/27/13 17:33
Chloroform	U		13	32	µg/Kg-dry	1	08/27/13 17:33
Chloromethane	U		18	110	µg/Kg-dry	1	08/27/13 17:33
cis-1,2-Dichloroethene	U		13	32	µg/Kg-dry	1	08/27/13 17:33

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-073
Collection Date: 08/20/13 10:50 AM

Work Order: 1308936
Lab ID: 1308936-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		11	32	µg/Kg-dry	1	08/27/13 17:33
Cyclohexane	U		14	32	µg/Kg-dry	1	08/27/13 17:33
Dibromochloromethane	U		6.0	32	µg/Kg-dry	1	08/27/13 17:33
Dichlorodifluoromethane	U		15	32	µg/Kg-dry	1	08/27/13 17:33
Ethylbenzene	U		12	32	µg/Kg-dry	1	08/27/13 17:33
Isopropylbenzene	U		14	32	µg/Kg-dry	1	08/27/13 17:33
Methyl acetate	100	J	43	210	µg/Kg-dry	1	08/27/13 17:33
Methyl tert-butyl ether	U		14	32	µg/Kg-dry	1	08/27/13 17:33
Methylcyclohexane	U		15	32	µg/Kg-dry	1	08/27/13 17:33
Methylene chloride	U		13	32	µg/Kg-dry	1	08/27/13 17:33
Styrene	U		12	32	µg/Kg-dry	1	08/27/13 17:33
Tetrachloroethene	U		14	32	µg/Kg-dry	1	08/27/13 17:33
Toluene	U		12	32	µg/Kg-dry	1	08/27/13 17:33
trans-1,2-Dichloroethene	U		9.9	32	µg/Kg-dry	1	08/27/13 17:33
trans-1,3-Dichloropropene	U		11	32	µg/Kg-dry	1	08/27/13 17:33
Trichloroethene	460		15	32	µg/Kg-dry	1	08/27/13 17:33
Trichlorofluoromethane	U		8.9	32	µg/Kg-dry	1	08/27/13 17:33
Vinyl chloride	U		15	32	µg/Kg-dry	1	08/27/13 17:33
Xylenes, Total	U		38	97	µg/Kg-dry	1	08/27/13 17:33
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	08/27/13 17:33
Surr: 4-Bromofluorobenzene	106			70-130	%REC	1	08/27/13 17:33
Surr: Dibromofluoromethane	97.3			70-130	%REC	1	08/27/13 17:33
Surr: Toluene-d8	95.3			70-130	%REC	1	08/27/13 17:33
MOISTURE			A2540 G			Analyst: LR	
BatchID: R125753							
Moisture	6.9		0.025	0.050	% of sample	1	08/26/13 21:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-074
Collection Date: 08/20/13 10:55 AM

Work Order: 1308936
Lab ID: 1308936-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471			Prep: SW7471 / 8/26/13	Analyst: LR
BatchID: <u>50800</u>							
Mercury	0.022	J	0.00084	0.042	mg/Kg-dry	1	08/26/13 18:04
METALS BY ICP-MS			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
BatchID: <u>50801</u>							
Antimony	0.38	J	0.0016	0.40	mg/Kg-dry	1	08/28/13 00:35
Arsenic	8.1		0.054	0.40	mg/Kg-dry	1	08/28/13 00:35
Barium	83		0.011	0.40	mg/Kg-dry	1	08/28/13 00:35
Beryllium	0.40		0.0032	0.16	mg/Kg-dry	1	08/28/13 00:35
Cadmium	0.13	J	0.0016	0.16	mg/Kg-dry	1	08/28/13 00:35
Chromium	5.4		0.066	0.40	mg/Kg-dry	1	08/28/13 00:35
Cobalt	3.5		0.0016	0.40	mg/Kg-dry	1	08/28/13 00:35
Copper	14		0.078	0.40	mg/Kg-dry	1	08/28/13 00:35
Iron	4,200		1.3	13	mg/Kg-dry	1	08/28/13 00:35
Lead	12		0.0016	0.40	mg/Kg-dry	1	08/28/13 00:35
Manganese	56		0.035	0.40	mg/Kg-dry	1	08/28/13 00:35
Molybdenum	1.0		0.018	0.40	mg/Kg-dry	1	08/28/13 00:35
Nickel	10		0.040	0.40	mg/Kg-dry	1	08/28/13 00:35
Selenium	0.55		0.051	0.40	mg/Kg-dry	1	08/28/13 00:35
Silver	0.036	J	0.0016	0.40	mg/Kg-dry	1	08/28/13 00:35
Thallium	0.15	J	0.0096	0.40	mg/Kg-dry	1	08/28/13 00:35
Vanadium	7.4		0.024	0.40	mg/Kg-dry	1	08/28/13 00:35
Zinc	13		0.034	0.80	mg/Kg-dry	1	08/28/13 00:35
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3541 / 8/26/13	Analyst: RM
BatchID: <u>50815</u>							
2-Methylnaphthalene	82	J	11	87	µg/Kg-dry	1	08/27/13 20:00
Acenaphthene	19	J	9.9	32	µg/Kg-dry	1	08/27/13 20:00
Acenaphthylene	26	J	10	32	µg/Kg-dry	1	08/27/13 20:00
Anthracene	70		11	32	µg/Kg-dry	1	08/27/13 20:00
Benzo(a)anthracene	280		13	32	µg/Kg-dry	1	08/27/13 20:00
Benzo(a)pyrene	260		17	32	µg/Kg-dry	1	08/27/13 20:00
Benzo(b)fluoranthene	380		17	32	µg/Kg-dry	1	08/27/13 20:00
Benzo(g,h,i)perylene	190		25	32	µg/Kg-dry	1	08/27/13 20:00
Benzo(k)fluoranthene	150		15	32	µg/Kg-dry	1	08/27/13 20:00
Chrysene	320		12	32	µg/Kg-dry	1	08/27/13 20:00
Dibenzo(a,h)anthracene	110		18	32	µg/Kg-dry	1	08/27/13 20:00
Fluoranthene	450		13	32	µg/Kg-dry	1	08/27/13 20:00
Fluorene	U		9.5	32	µg/Kg-dry	1	08/27/13 20:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-074
Collection Date: 08/20/13 10:55 AM

Work Order: 1308936
Lab ID: 1308936-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	230		20	32	µg/Kg-dry	1	08/27/13 20:00
Naphthalene	47		9.2	32	µg/Kg-dry	1	08/27/13 20:00
Phenanthrene	330		32	32	µg/Kg-dry	1	08/27/13 20:00
Pyrene	510		13	32	µg/Kg-dry	1	08/27/13 20:00
Surr: 2-Fluorobiphenyl	77.8			12-100	%REC	1	08/27/13 20:00
Surr: 4-Terphenyl-d14	119			25-137	%REC	1	08/27/13 20:00
Surr: Nitrobenzene-d5	76.2			37-107	%REC	1	08/27/13 20:00
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: AK
BatchID: 50820							
1,1,1-Trichloroethane	U		17	45	µg/Kg-dry	1	08/27/13 17:57
1,1,2,2-Tetrachloroethane	U		20	45	µg/Kg-dry	1	08/27/13 17:57
1,1,2-Trichloroethane	U		16	45	µg/Kg-dry	1	08/27/13 17:57
1,1,2-Trichlorotrifluoroethane	U		17	45	µg/Kg-dry	1	08/27/13 17:57
1,1-Dichloroethane	U		16	45	µg/Kg-dry	1	08/27/13 17:57
1,1-Dichloroethene	U		19	45	µg/Kg-dry	1	08/27/13 17:57
1,2,4-Trichlorobenzene	U		23	45	µg/Kg-dry	1	08/27/13 17:57
1,2-Dibromo-3-chloropropane	U		22	45	µg/Kg-dry	1	08/27/13 17:57
1,2-Dibromoethane	U		18	45	µg/Kg-dry	1	08/27/13 17:57
1,2-Dichlorobenzene	U		18	45	µg/Kg-dry	1	08/27/13 17:57
1,2-Dichloroethane	U		21	45	µg/Kg-dry	1	08/27/13 17:57
1,2-Dichloropropane	U		15	45	µg/Kg-dry	1	08/27/13 17:57
1,3-Dichlorobenzene	U		18	45	µg/Kg-dry	1	08/27/13 17:57
1,4-Dichlorobenzene	U		17	45	µg/Kg-dry	1	08/27/13 17:57
2-Butanone	U		110	300	µg/Kg-dry	1	08/27/13 17:57
2-Hexanone	U		11	45	µg/Kg-dry	1	08/27/13 17:57
4-Methyl-2-pentanone	U		15	45	µg/Kg-dry	1	08/27/13 17:57
Acetone	U		95	150	µg/Kg-dry	1	08/27/13 17:57
Benzene	U		18	45	µg/Kg-dry	1	08/27/13 17:57
Bromodichloromethane	U		10	45	µg/Kg-dry	1	08/27/13 17:57
Bromoform	U		8.9	45	µg/Kg-dry	1	08/27/13 17:57
Bromomethane	U		17	110	µg/Kg-dry	1	08/27/13 17:57
Carbon disulfide	U		22	45	µg/Kg-dry	1	08/27/13 17:57
Carbon tetrachloride	U		13	45	µg/Kg-dry	1	08/27/13 17:57
Chlorobenzene	U		18	45	µg/Kg-dry	1	08/27/13 17:57
Chloroethane	U		95	150	µg/Kg-dry	1	08/27/13 17:57
Chloroform	U		19	45	µg/Kg-dry	1	08/27/13 17:57
Chloromethane	U		25	150	µg/Kg-dry	1	08/27/13 17:57
cis-1,2-Dichloroethene	U		18	45	µg/Kg-dry	1	08/27/13 17:57
cis-1,3-Dichloropropene	U		15	45	µg/Kg-dry	1	08/27/13 17:57

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-074
Collection Date: 08/20/13 10:55 AM

Work Order: 1308936
Lab ID: 1308936-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		20	45	µg/Kg-dry	1	08/27/13 17:57
Dibromochloromethane	U		8.3	45	µg/Kg-dry	1	08/27/13 17:57
Dichlorodifluoromethane	U		20	45	µg/Kg-dry	1	08/27/13 17:57
Ethylbenzene	U		17	45	µg/Kg-dry	1	08/27/13 17:57
Isopropylbenzene	U		19	45	µg/Kg-dry	1	08/27/13 17:57
Methyl acetate	U		60	300	µg/Kg-dry	1	08/27/13 17:57
Methyl tert-butyl ether	U		19	45	µg/Kg-dry	1	08/27/13 17:57
Methylcyclohexane	360		21	45	µg/Kg-dry	1	08/27/13 17:57
Methylene chloride	U		18	45	µg/Kg-dry	1	08/27/13 17:57
Styrene	U		17	45	µg/Kg-dry	1	08/27/13 17:57
Tetrachloroethene	U		20	45	µg/Kg-dry	1	08/27/13 17:57
Toluene	43	J	17	45	µg/Kg-dry	1	08/27/13 17:57
trans-1,2-Dichloroethene	U		14	45	µg/Kg-dry	1	08/27/13 17:57
trans-1,3-Dichloropropene	U		15	45	µg/Kg-dry	1	08/27/13 17:57
Trichloroethene	5,000		21	45	µg/Kg-dry	1	08/27/13 17:57
Trichlorofluoromethane	U		12	45	µg/Kg-dry	1	08/27/13 17:57
Vinyl chloride	U		20	45	µg/Kg-dry	1	08/27/13 17:57
Xylenes, Total	150		53	130	µg/Kg-dry	1	08/27/13 17:57
Surr: 1,2-Dichloroethane-d4	99.2			70-130	%REC	1	08/27/13 17:57
Surr: 4-Bromofluorobenzene	106			70-130	%REC	1	08/27/13 17:57
Surr: Dibromofluoromethane	95.6			70-130	%REC	1	08/27/13 17:57
Surr: Toluene-d8	94.2			70-130	%REC	1	08/27/13 17:57
MOISTURE			A2540 G				Analyst: LR
BatchID: R125753							
Moisture	8.7		0.025	0.050	% of sample	1	08/26/13 21:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-075
Collection Date: 08/20/13 11:00 AM

Work Order: 1308936
Lab ID: 1308936-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/26/13	Analyst: LR
BatchID: 50800							
Mercury	0.0093	J	0.00087	0.043	mg/Kg-dry	1	08/26/13 18:06
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
BatchID: 50801							
Antimony	0.80		0.0017	0.43	mg/Kg-dry	1	08/28/13 00:41
Arsenic	9.5		0.059	0.43	mg/Kg-dry	1	08/28/13 00:41
Barium	120		0.012	0.43	mg/Kg-dry	1	08/28/13 00:41
Beryllium	0.68		0.0035	0.17	mg/Kg-dry	1	08/28/13 00:41
Cadmium	0.10	J	0.0017	0.17	mg/Kg-dry	1	08/28/13 00:41
Chromium	7.3		0.071	0.43	mg/Kg-dry	1	08/28/13 00:41
Cobalt	5.5		0.0017	0.43	mg/Kg-dry	1	08/28/13 00:41
Copper	21		0.085	0.43	mg/Kg-dry	1	08/28/13 00:41
Iron	5,300		1.4	14	mg/Kg-dry	1	08/28/13 00:41
Lead	24		0.0017	0.43	mg/Kg-dry	1	08/28/13 00:41
Manganese	76		0.038	0.43	mg/Kg-dry	1	08/28/13 00:41
Molybdenum	2.3		0.019	0.43	mg/Kg-dry	1	08/28/13 00:41
Nickel	12		0.043	0.43	mg/Kg-dry	1	08/28/13 00:41
Selenium	1.1		0.055	0.43	mg/Kg-dry	1	08/28/13 00:41
Silver	0.036	J	0.0017	0.43	mg/Kg-dry	1	08/28/13 00:41
Thallium	0.36	J	0.010	0.43	mg/Kg-dry	1	08/28/13 00:41
Vanadium	13		0.026	0.43	mg/Kg-dry	1	08/28/13 00:41
Zinc	14		0.036	0.87	mg/Kg-dry	1	08/28/13 00:41
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/26/13	Analyst: RM
BatchID: 50815							
2-Methylnaphthalene	35	J	16	130	µg/Kg-dry	1	08/27/13 20:19
Acenaphthene	U		15	49	µg/Kg-dry	1	08/27/13 20:19
Acenaphthylene	U		15	49	µg/Kg-dry	1	08/27/13 20:19
Anthracene	56		17	49	µg/Kg-dry	1	08/27/13 20:19
Benzo(a)anthracene	56		20	49	µg/Kg-dry	1	08/27/13 20:19
Benzo(a)pyrene	130		25	49	µg/Kg-dry	1	08/27/13 20:19
Benzo(b)fluoranthene	130		26	49	µg/Kg-dry	1	08/27/13 20:19
Benzo(g,h,i)perylene	120		39	49	µg/Kg-dry	1	08/27/13 20:19
Benzo(k)fluoranthene	67		22	49	µg/Kg-dry	1	08/27/13 20:19
Chrysene	67		19	49	µg/Kg-dry	1	08/27/13 20:19
Dibenzo(a,h)anthracene	U		28	49	µg/Kg-dry	1	08/27/13 20:19
Fluoranthene	140		19	49	µg/Kg-dry	1	08/27/13 20:19
Fluorene	U		14	49	µg/Kg-dry	1	08/27/13 20:19

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-075
Collection Date: 08/20/13 11:00 AM

Work Order: 1308936
Lab ID: 1308936-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	75		31	49	µg/Kg-dry	1	08/27/13 20:19
Naphthalene	U		14	49	µg/Kg-dry	1	08/27/13 20:19
Phenanthrene	96		49	49	µg/Kg-dry	1	08/27/13 20:19
Pyrene	87		20	49	µg/Kg-dry	1	08/27/13 20:19
Surr: 2-Fluorobiphenyl	66.3			12-100	%REC	1	08/27/13 20:19
Surr: 4-Terphenyl-d14	99.5			25-137	%REC	1	08/27/13 20:19
Surr: Nitrobenzene-d5	66.3			37-107	%REC	1	08/27/13 20:19
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: AK
BatchID: 50820							
1,1,1-Trichloroethane	U		28	74	µg/Kg-dry	1	08/27/13 18:22
1,1,2,2-Tetrachloroethane	U		32	74	µg/Kg-dry	1	08/27/13 18:22
1,1,2-Trichloroethane	U		26	74	µg/Kg-dry	1	08/27/13 18:22
1,1,2-Trichlorotrifluoroethane	U		27	74	µg/Kg-dry	1	08/27/13 18:22
1,1-Dichloroethane	U		27	74	µg/Kg-dry	1	08/27/13 18:22
1,1-Dichloroethene	U		31	74	µg/Kg-dry	1	08/27/13 18:22
1,2,4-Trichlorobenzene	U		38	74	µg/Kg-dry	1	08/27/13 18:22
1,2-Dibromo-3-chloropropane	U		36	74	µg/Kg-dry	1	08/27/13 18:22
1,2-Dibromoethane	U		29	74	µg/Kg-dry	1	08/27/13 18:22
1,2-Dichlorobenzene	U		29	74	µg/Kg-dry	1	08/27/13 18:22
1,2-Dichloroethane	U		35	74	µg/Kg-dry	1	08/27/13 18:22
1,2-Dichloropropane	U		24	74	µg/Kg-dry	1	08/27/13 18:22
1,3-Dichlorobenzene	U		30	74	µg/Kg-dry	1	08/27/13 18:22
1,4-Dichlorobenzene	U		28	74	µg/Kg-dry	1	08/27/13 18:22
2-Butanone	U		180	490	µg/Kg-dry	1	08/27/13 18:22
2-Hexanone	U		18	74	µg/Kg-dry	1	08/27/13 18:22
4-Methyl-2-pentanone	U		25	74	µg/Kg-dry	1	08/27/13 18:22
Acetone	U		160	250	µg/Kg-dry	1	08/27/13 18:22
Benzene	U		30	74	µg/Kg-dry	1	08/27/13 18:22
Bromodichloromethane	U		17	74	µg/Kg-dry	1	08/27/13 18:22
Bromoform	U		15	74	µg/Kg-dry	1	08/27/13 18:22
Bromomethane	U		28	180	µg/Kg-dry	1	08/27/13 18:22
Carbon disulfide	U		36	74	µg/Kg-dry	1	08/27/13 18:22
Carbon tetrachloride	U		21	74	µg/Kg-dry	1	08/27/13 18:22
Chlorobenzene	U		30	74	µg/Kg-dry	1	08/27/13 18:22
Chloroethane	U		160	250	µg/Kg-dry	1	08/27/13 18:22
Chloroform	U		30	74	µg/Kg-dry	1	08/27/13 18:22
Chloromethane	U		41	250	µg/Kg-dry	1	08/27/13 18:22
cis-1,2-Dichloroethene	U		30	74	µg/Kg-dry	1	08/27/13 18:22
cis-1,3-Dichloropropene	U		25	74	µg/Kg-dry	1	08/27/13 18:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-075
Collection Date: 08/20/13 11:00 AM

Work Order: 1308936
Lab ID: 1308936-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		33	74	µg/Kg-dry	1	08/27/13 18:22
Dibromochloromethane	U		14	74	µg/Kg-dry	1	08/27/13 18:22
Dichlorodifluoromethane	U		33	74	µg/Kg-dry	1	08/27/13 18:22
Ethylbenzene	U		27	74	µg/Kg-dry	1	08/27/13 18:22
Isopropylbenzene	U		32	74	µg/Kg-dry	1	08/27/13 18:22
Methyl acetate	U		99	490	µg/Kg-dry	1	08/27/13 18:22
Methyl tert-butyl ether	U		31	74	µg/Kg-dry	1	08/27/13 18:22
Methylcyclohexane	U		34	74	µg/Kg-dry	1	08/27/13 18:22
Methylene chloride	U		29	74	µg/Kg-dry	1	08/27/13 18:22
Styrene	U		27	74	µg/Kg-dry	1	08/27/13 18:22
Tetrachloroethene	U		33	74	µg/Kg-dry	1	08/27/13 18:22
Toluene	U		28	74	µg/Kg-dry	1	08/27/13 18:22
trans-1,2-Dichloroethene	U		23	74	µg/Kg-dry	1	08/27/13 18:22
trans-1,3-Dichloropropene	U		25	74	µg/Kg-dry	1	08/27/13 18:22
Trichloroethene	1,600		34	74	µg/Kg-dry	1	08/27/13 18:22
Trichlorofluoromethane	U		20	74	µg/Kg-dry	1	08/27/13 18:22
Vinyl chloride	U		33	74	µg/Kg-dry	1	08/27/13 18:22
Xylenes, Total	U		87	220	µg/Kg-dry	1	08/27/13 18:22
Surr: 1,2-Dichloroethane-d4	98.0			70-130	%REC	1	08/27/13 18:22
Surr: 4-Bromofluorobenzene	102			70-130	%REC	1	08/27/13 18:22
Surr: Dibromofluoromethane	96.6			70-130	%REC	1	08/27/13 18:22
Surr: Toluene-d8	95.0			70-130	%REC	1	08/27/13 18:22
MOISTURE			A2540 G				Analyst: LR
BatchID: R125753							
Moisture	9.7		0.025	0.050	% of sample	1	08/26/13 21:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-076
Collection Date: 08/20/13 11:05 AM

Work Order: 1308936
Lab ID: 1308936-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/26/13	Analyst: LR
<u>BatchID: 50800</u>							
Mercury	0.013	J	0.00078	0.039	mg/Kg-dry	1	08/26/13 18:08
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
<u>BatchID: 50801</u>							
Antimony	0.27	J	0.0015	0.38	mg/Kg-dry	1	08/28/13 01:32
Arsenic	9.2		0.052	0.38	mg/Kg-dry	1	08/28/13 01:32
Barium	53		0.011	0.38	mg/Kg-dry	1	08/28/13 01:32
Beryllium	0.20		0.0031	0.15	mg/Kg-dry	1	08/28/13 01:32
Cadmium	0.062	J	0.0015	0.15	mg/Kg-dry	1	08/28/13 01:32
Chromium	5.7		0.063	0.38	mg/Kg-dry	1	08/28/13 01:32
Cobalt	1.9		0.0015	0.38	mg/Kg-dry	1	08/28/13 01:32
Copper	4.2		0.075	0.38	mg/Kg-dry	1	08/28/13 01:32
Iron	4,900		1.3	12	mg/Kg-dry	1	08/28/13 01:32
Lead	5.5		0.0015	0.38	mg/Kg-dry	1	08/28/13 01:32
Molybdenum	0.58		0.017	0.38	mg/Kg-dry	1	08/28/13 01:32
Nickel	4.7		0.038	0.38	mg/Kg-dry	1	08/28/13 01:32
Selenium	0.49		0.049	0.38	mg/Kg-dry	1	08/28/13 01:32
Silver	0.0079	J	0.0015	0.38	mg/Kg-dry	1	08/28/13 01:32
Thallium	0.091	J	0.0092	0.38	mg/Kg-dry	1	08/28/13 01:32
Vanadium	8.9		0.023	0.38	mg/Kg-dry	1	08/28/13 01:32
Zinc	13		0.032	0.77	mg/Kg-dry	1	08/28/13 01:32
<u>BatchID: 50801</u>							
Manganese	220		0.34	3.8	mg/Kg-dry	10	08/28/13 21:44
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/26/13	Analyst: RM
<u>BatchID: 50815</u>							
2-Methylnaphthalene	23	J	11	86	µg/Kg-dry	1	08/27/13 20:39
Acenaphthene	U		9.8	32	µg/Kg-dry	1	08/27/13 20:39
Acenaphthylene	U		10	32	µg/Kg-dry	1	08/27/13 20:39
Anthracene	32	J	11	32	µg/Kg-dry	1	08/27/13 20:39
Benzo(a)anthracene	22	J	13	32	µg/Kg-dry	1	08/27/13 20:39
Benzo(a)pyrene	76		17	32	µg/Kg-dry	1	08/27/13 20:39
Benzo(b)fluoranthene	73		17	32	µg/Kg-dry	1	08/27/13 20:39
Benzo(g,h,i)perylene	73		25	32	µg/Kg-dry	1	08/27/13 20:39
Benzo(k)fluoranthene	42		15	32	µg/Kg-dry	1	08/27/13 20:39
Chrysene	24	J	12	32	µg/Kg-dry	1	08/27/13 20:39
Dibenzo(a,h)anthracene	U		18	32	µg/Kg-dry	1	08/27/13 20:39
Fluoranthene	65		13	32	µg/Kg-dry	1	08/27/13 20:39

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-076
Collection Date: 08/20/13 11:05 AM

Work Order: 1308936
Lab ID: 1308936-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		9.4	32	µg/Kg-dry	1	08/27/13 20:39
Indeno(1,2,3-cd)pyrene	48		20	32	µg/Kg-dry	1	08/27/13 20:39
Naphthalene	U		9.2	32	µg/Kg-dry	1	08/27/13 20:39
Phenanthrene	38		32	32	µg/Kg-dry	1	08/27/13 20:39
Pyrene	38		13	32	µg/Kg-dry	1	08/27/13 20:39
Surr: 2-Fluorobiphenyl	72.4			12-100	%REC	1	08/27/13 20:39
Surr: 4-Terphenyl-d14	124			25-137	%REC	1	08/27/13 20:39
Surr: Nitrobenzene-d5	70.9			37-107	%REC	1	08/27/13 20:39
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: AK
BatchID: 50820							
1,1,1-Trichloroethane	U		16	42	µg/Kg-dry	1	08/27/13 18:47
1,1,2,2-Tetrachloroethane	U		18	42	µg/Kg-dry	1	08/27/13 18:47
1,1,2-Trichloroethane	U		15	42	µg/Kg-dry	1	08/27/13 18:47
1,1,2-Trichlorotrifluoroethane	U		15	42	µg/Kg-dry	1	08/27/13 18:47
1,1-Dichloroethane	U		15	42	µg/Kg-dry	1	08/27/13 18:47
1,1-Dichloroethene	U		17	42	µg/Kg-dry	1	08/27/13 18:47
1,2,4-Trichlorobenzene	U		21	42	µg/Kg-dry	1	08/27/13 18:47
1,2-Dibromo-3-chloropropane	U		20	42	µg/Kg-dry	1	08/27/13 18:47
1,2-Dibromoethane	U		16	42	µg/Kg-dry	1	08/27/13 18:47
1,2-Dichlorobenzene	U		17	42	µg/Kg-dry	1	08/27/13 18:47
1,2-Dichloroethane	U		20	42	µg/Kg-dry	1	08/27/13 18:47
1,2-Dichloropropane	U		14	42	µg/Kg-dry	1	08/27/13 18:47
1,3-Dichlorobenzene	U		17	42	µg/Kg-dry	1	08/27/13 18:47
1,4-Dichlorobenzene	U		16	42	µg/Kg-dry	1	08/27/13 18:47
2-Butanone	U		100	280	µg/Kg-dry	1	08/27/13 18:47
2-Hexanone	U		10	42	µg/Kg-dry	1	08/27/13 18:47
4-Methyl-2-pentanone	U		14	42	µg/Kg-dry	1	08/27/13 18:47
Acetone	U		88	140	µg/Kg-dry	1	08/27/13 18:47
Benzene	U		17	42	µg/Kg-dry	1	08/27/13 18:47
Bromodichloromethane	U		9.3	42	µg/Kg-dry	1	08/27/13 18:47
Bromoform	U		8.2	42	µg/Kg-dry	1	08/27/13 18:47
Bromomethane	U		16	100	µg/Kg-dry	1	08/27/13 18:47
Carbon disulfide	U		21	42	µg/Kg-dry	1	08/27/13 18:47
Carbon tetrachloride	U		12	42	µg/Kg-dry	1	08/27/13 18:47
Chlorobenzene	U		17	42	µg/Kg-dry	1	08/27/13 18:47
Chloroethane	U		88	140	µg/Kg-dry	1	08/27/13 18:47
Chloroform	U		17	42	µg/Kg-dry	1	08/27/13 18:47
Chloromethane	U		23	140	µg/Kg-dry	1	08/27/13 18:47
cis-1,2-Dichloroethene	U		17	42	µg/Kg-dry	1	08/27/13 18:47

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-076
Collection Date: 08/20/13 11:05 AM

Work Order: 1308936
Lab ID: 1308936-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		14	42	µg/Kg-dry	1	08/27/13 18:47
Cyclohexane	U		19	42	µg/Kg-dry	1	08/27/13 18:47
Dibromochloromethane	U		7.7	42	µg/Kg-dry	1	08/27/13 18:47
Dichlorodifluoromethane	U		19	42	µg/Kg-dry	1	08/27/13 18:47
Ethylbenzene	U		15	42	µg/Kg-dry	1	08/27/13 18:47
Isopropylbenzene	U		18	42	µg/Kg-dry	1	08/27/13 18:47
Methyl acetate	U		56	280	µg/Kg-dry	1	08/27/13 18:47
Methyl tert-butyl ether	U		18	42	µg/Kg-dry	1	08/27/13 18:47
Methylcyclohexane	U		19	42	µg/Kg-dry	1	08/27/13 18:47
Methylene chloride	U		16	42	µg/Kg-dry	1	08/27/13 18:47
Styrene	U		15	42	µg/Kg-dry	1	08/27/13 18:47
Tetrachloroethene	U		19	42	µg/Kg-dry	1	08/27/13 18:47
Toluene	U		16	42	µg/Kg-dry	1	08/27/13 18:47
trans-1,2-Dichloroethene	U		13	42	µg/Kg-dry	1	08/27/13 18:47
trans-1,3-Dichloropropene	U		14	42	µg/Kg-dry	1	08/27/13 18:47
Trichloroethene	890		19	42	µg/Kg-dry	1	08/27/13 18:47
Trichlorofluoromethane	U		11	42	µg/Kg-dry	1	08/27/13 18:47
Vinyl chloride	U		19	42	µg/Kg-dry	1	08/27/13 18:47
Xylenes, Total	U		49	120	µg/Kg-dry	1	08/27/13 18:47
Surr: 1,2-Dichloroethane-d4	99.1			70-130	%REC	1	08/27/13 18:47
Surr: 4-Bromofluorobenzene	102			70-130	%REC	1	08/27/13 18:47
Surr: Dibromofluoromethane	95.4			70-130	%REC	1	08/27/13 18:47
Surr: Toluene-d8	95.6			70-130	%REC	1	08/27/13 18:47
MOISTURE			A2540 G			Analyst: LR	
BatchID: R125753							
Moisture	7.3		0.025	0.050	% of sample	1	08/26/13 21:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-077
Collection Date: 08/20/13 11:10 AM

Work Order: 1308936
Lab ID: 1308936-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/26/13	Analyst: LR
BatchID: 50800							
Mercury	0.020	J	0.00074	0.037	mg/Kg-dry	1	08/26/13 18:10
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
BatchID: 50801							
Antimony	0.11	J	0.0015	0.38	mg/Kg-dry	1	08/28/13 01:38
Arsenic	1.4		0.051	0.38	mg/Kg-dry	1	08/28/13 01:38
Barium	41		0.011	0.38	mg/Kg-dry	1	08/28/13 01:38
Beryllium	0.13	J	0.0030	0.15	mg/Kg-dry	1	08/28/13 01:38
Cadmium	0.12	J	0.0015	0.15	mg/Kg-dry	1	08/28/13 01:38
Chromium	5.4		0.062	0.38	mg/Kg-dry	1	08/28/13 01:38
Cobalt	1.8		0.0015	0.38	mg/Kg-dry	1	08/28/13 01:38
Copper	4.2		0.074	0.38	mg/Kg-dry	1	08/28/13 01:38
Iron	4,900		1.3	12	mg/Kg-dry	1	08/28/13 01:38
Lead	6.6		0.0015	0.38	mg/Kg-dry	1	08/28/13 01:38
Molybdenum	0.36	J	0.017	0.38	mg/Kg-dry	1	08/28/13 01:38
Nickel	4.0		0.038	0.38	mg/Kg-dry	1	08/28/13 01:38
Selenium	0.37	J	0.048	0.38	mg/Kg-dry	1	08/28/13 01:38
Silver	0.0077	J	0.0015	0.38	mg/Kg-dry	1	08/28/13 01:38
Thallium	0.051	J	0.0091	0.38	mg/Kg-dry	1	08/28/13 01:38
Vanadium	7.9		0.023	0.38	mg/Kg-dry	1	08/28/13 01:38
Zinc	18		0.032	0.76	mg/Kg-dry	1	08/28/13 01:38
BatchID: 50801							
Manganese	270		0.33	3.8	mg/Kg-dry	10	08/28/13 21:50
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/26/13	Analyst: RM
BatchID: 50815							
2-Methylnaphthalene	39	J	10	83	µg/Kg-dry	1	08/27/13 21:37
Acenaphthene	U		9.5	31	µg/Kg-dry	1	08/27/13 21:37
Acenaphthylene	25	J	9.8	31	µg/Kg-dry	1	08/27/13 21:37
Anthracene	38		11	31	µg/Kg-dry	1	08/27/13 21:37
Benzo(a)anthracene	60		13	31	µg/Kg-dry	1	08/27/13 21:37
Benzo(a)pyrene	100		16	31	µg/Kg-dry	1	08/27/13 21:37
Benzo(b)fluoranthene	100		17	31	µg/Kg-dry	1	08/27/13 21:37
Benzo(g,h,i)perylene	86		24	31	µg/Kg-dry	1	08/27/13 21:37
Benzo(k)fluoranthene	56		14	31	µg/Kg-dry	1	08/27/13 21:37
Chrysene	53		12	31	µg/Kg-dry	1	08/27/13 21:37
Dibenzo(a,h)anthracene	72		18	31	µg/Kg-dry	1	08/27/13 21:37
Fluoranthene	92		12	31	µg/Kg-dry	1	08/27/13 21:37

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-077
Collection Date: 08/20/13 11:10 AM

Work Order: 1308936
Lab ID: 1308936-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		9.1	31	µg/Kg-dry	1	08/27/13 21:37
Indeno(1,2,3-cd)pyrene	75		20	31	µg/Kg-dry	1	08/27/13 21:37
Naphthalene	29	J	8.9	31	µg/Kg-dry	1	08/27/13 21:37
Phenanthrene	42		31	31	µg/Kg-dry	1	08/27/13 21:37
Pyrene	76		13	31	µg/Kg-dry	1	08/27/13 21:37
Surr: 2-Fluorobiphenyl	72.7			12-100	%REC	1	08/27/13 21:37
Surr: 4-Terphenyl-d14	110			25-137	%REC	1	08/27/13 21:37
Surr: Nitrobenzene-d5	67.4			37-107	%REC	1	08/27/13 21:37
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: AK
BatchID: 50820							
1,1,1-Trichloroethane	U		13	34	µg/Kg-dry	1	08/27/13 19:11
1,1,2,2-Tetrachloroethane	U		15	34	µg/Kg-dry	1	08/27/13 19:11
1,1,2-Trichloroethane	U		12	34	µg/Kg-dry	1	08/27/13 19:11
1,1,2-Trichlorotrifluoroethane	U		12	34	µg/Kg-dry	1	08/27/13 19:11
1,1-Dichloroethane	U		12	34	µg/Kg-dry	1	08/27/13 19:11
1,1-Dichloroethene	U		14	34	µg/Kg-dry	1	08/27/13 19:11
1,2,4-Trichlorobenzene	U		17	34	µg/Kg-dry	1	08/27/13 19:11
1,2-Dibromo-3-chloropropane	U		16	34	µg/Kg-dry	1	08/27/13 19:11
1,2-Dibromoethane	U		13	34	µg/Kg-dry	1	08/27/13 19:11
1,2-Dichlorobenzene	U		13	34	µg/Kg-dry	1	08/27/13 19:11
1,2-Dichloroethane	U		16	34	µg/Kg-dry	1	08/27/13 19:11
1,2-Dichloropropane	U		11	34	µg/Kg-dry	1	08/27/13 19:11
1,3-Dichlorobenzene	U		13	34	µg/Kg-dry	1	08/27/13 19:11
1,4-Dichlorobenzene	U		13	34	µg/Kg-dry	1	08/27/13 19:11
2-Butanone	U		83	220	µg/Kg-dry	1	08/27/13 19:11
2-Hexanone	U		8.3	34	µg/Kg-dry	1	08/27/13 19:11
4-Methyl-2-pentanone	U		11	34	µg/Kg-dry	1	08/27/13 19:11
Acetone	U		71	110	µg/Kg-dry	1	08/27/13 19:11
Benzene	1,200		14	34	µg/Kg-dry	1	08/27/13 19:11
Bromodichloromethane	U		7.6	34	µg/Kg-dry	1	08/27/13 19:11
Bromoform	U		6.6	34	µg/Kg-dry	1	08/27/13 19:11
Bromomethane	U		13	84	µg/Kg-dry	1	08/27/13 19:11
Carbon disulfide	U		17	34	µg/Kg-dry	1	08/27/13 19:11
Carbon tetrachloride	U		9.6	34	µg/Kg-dry	1	08/27/13 19:11
Chlorobenzene	U		14	34	µg/Kg-dry	1	08/27/13 19:11
Chloroethane	U		72	110	µg/Kg-dry	1	08/27/13 19:11
Chloroform	U		14	34	µg/Kg-dry	1	08/27/13 19:11
Chloromethane	U		19	110	µg/Kg-dry	1	08/27/13 19:11
cis-1,2-Dichloroethene	U		14	34	µg/Kg-dry	1	08/27/13 19:11

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-077
Collection Date: 08/20/13 11:10 AM

Work Order: 1308936
Lab ID: 1308936-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		12	34	µg/Kg-dry	1	08/27/13 19:11
Cyclohexane	92		15	34	µg/Kg-dry	1	08/27/13 19:11
Dibromochloromethane	U		6.2	34	µg/Kg-dry	1	08/27/13 19:11
Dichlorodifluoromethane	U		15	34	µg/Kg-dry	1	08/27/13 19:11
Ethylbenzene	250		13	34	µg/Kg-dry	1	08/27/13 19:11
Isopropylbenzene	75		15	34	µg/Kg-dry	1	08/27/13 19:11
Methyl acetate	U		45	220	µg/Kg-dry	1	08/27/13 19:11
Methyl tert-butyl ether	U		14	34	µg/Kg-dry	1	08/27/13 19:11
Methylcyclohexane	220		16	34	µg/Kg-dry	1	08/27/13 19:11
Methylene chloride	U		13	34	µg/Kg-dry	1	08/27/13 19:11
Styrene	U		13	34	µg/Kg-dry	1	08/27/13 19:11
Tetrachloroethene	U		15	34	µg/Kg-dry	1	08/27/13 19:11
Toluene	1,900		13	34	µg/Kg-dry	1	08/27/13 19:11
trans-1,2-Dichloroethene	U		10	34	µg/Kg-dry	1	08/27/13 19:11
trans-1,3-Dichloropropene	U		11	34	µg/Kg-dry	1	08/27/13 19:11
Trichloroethene	630		16	34	µg/Kg-dry	1	08/27/13 19:11
Trichlorofluoromethane	U		9.3	34	µg/Kg-dry	1	08/27/13 19:11
Vinyl chloride	U		15	34	µg/Kg-dry	1	08/27/13 19:11
Xylenes, Total	790		40	100	µg/Kg-dry	1	08/27/13 19:11
Surr: 1,2-Dichloroethane-d4	102			70-130	%REC	1	08/27/13 19:11
Surr: 4-Bromofluorobenzene	105			70-130	%REC	1	08/27/13 19:11
Surr: Dibromofluoromethane	96.9			70-130	%REC	1	08/27/13 19:11
Surr: Toluene-d8	96.8			70-130	%REC	1	08/27/13 19:11
MOISTURE			A2540 G				Analyst: LR
BatchID: R125753							
Moisture	6.1		0.025	0.050	% of sample	1	08/26/13 21:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-078
Collection Date: 08/20/13 11:30 AM

Work Order: 1308936
Lab ID: 1308936-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/26/13	Analyst: LR
BatchID: 50800							
Mercury	0.022	J	0.00078	0.039	mg/Kg-dry	1	08/26/13 18:12
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
BatchID: 50801							
Antimony	0.26	J	0.0015	0.38	mg/Kg-dry	1	08/28/13 01:44
Arsenic	1.7		0.052	0.38	mg/Kg-dry	1	08/28/13 01:44
Barium	34		0.011	0.38	mg/Kg-dry	1	08/28/13 01:44
Beryllium	0.10	J	0.0031	0.15	mg/Kg-dry	1	08/28/13 01:44
Cadmium	0.080	J	0.0015	0.15	mg/Kg-dry	1	08/28/13 01:44
Chromium	5.6		0.063	0.38	mg/Kg-dry	1	08/28/13 01:44
Cobalt	1.9		0.0015	0.38	mg/Kg-dry	1	08/28/13 01:44
Copper	5.9		0.075	0.38	mg/Kg-dry	1	08/28/13 01:44
Iron	5,000		1.3	12	mg/Kg-dry	1	08/28/13 01:44
Lead	32		0.0015	0.38	mg/Kg-dry	1	08/28/13 01:44
Molybdenum	0.37	J	0.017	0.38	mg/Kg-dry	1	08/28/13 01:44
Nickel	4.8		0.038	0.38	mg/Kg-dry	1	08/28/13 01:44
Selenium	0.35	J	0.049	0.38	mg/Kg-dry	1	08/28/13 01:44
Silver	0.013	J	0.0015	0.38	mg/Kg-dry	1	08/28/13 01:44
Thallium	0.039	J	0.0092	0.38	mg/Kg-dry	1	08/28/13 01:44
Vanadium	8.5		0.023	0.38	mg/Kg-dry	1	08/28/13 01:44
Zinc	20		0.032	0.77	mg/Kg-dry	1	08/28/13 01:44
BatchID: 50801							
Manganese	160		0.34	3.8	mg/Kg-dry	10	08/28/13 21:57
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/26/13	Analyst: RM
BatchID: 50815							
2-Methylnaphthalene	U		100	830	µg/Kg-dry	10	08/27/13 21:57
Acenaphthene	U		94	310	µg/Kg-dry	10	08/27/13 21:57
Acenaphthylene	U		98	310	µg/Kg-dry	10	08/27/13 21:57
Anthracene	700		110	310	µg/Kg-dry	10	08/27/13 21:57
Benzo(a)anthracene	1,000		130	310	µg/Kg-dry	10	08/27/13 21:57
Benzo(a)pyrene	1,300		160	310	µg/Kg-dry	10	08/27/13 21:57
Benzo(b)fluoranthene	1,400		170	310	µg/Kg-dry	10	08/27/13 21:57
Benzo(g,h,i)perylene	960		240	310	µg/Kg-dry	10	08/27/13 21:57
Benzo(k)fluoranthene	700		140	310	µg/Kg-dry	10	08/27/13 21:57
Chrysene	920		120	310	µg/Kg-dry	10	08/27/13 21:57
Dibenzo(a,h)anthracene	730		180	310	µg/Kg-dry	10	08/27/13 21:57
Fluoranthene	2,700		120	310	µg/Kg-dry	10	08/27/13 21:57

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-078
Collection Date: 08/20/13 11:30 AM

Work Order: 1308936
Lab ID: 1308936-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		90	310	µg/Kg-dry	10	08/27/13 21:57
Indeno(1,2,3-cd)pyrene	950		200	310	µg/Kg-dry	10	08/27/13 21:57
Naphthalene	U		88	310	µg/Kg-dry	10	08/27/13 21:57
Phenanthrene	2,100		310	310	µg/Kg-dry	10	08/27/13 21:57
Pyrene	2,300		130	310	µg/Kg-dry	10	08/27/13 21:57
Surr: 2-Fluorobiphenyl	62.2			12-100	%REC	10	08/27/13 21:57
Surr: 4-Terphenyl-d14	103			25-137	%REC	10	08/27/13 21:57
Surr: Nitrobenzene-d5	73.4			37-107	%REC	10	08/27/13 21:57
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: AK
<u>BatchID: 50820</u>							
1,1,1-Trichloroethane	U		13	33	µg/Kg-dry	1	08/27/13 19:36
1,1,2,2-Tetrachloroethane	U		15	33	µg/Kg-dry	1	08/27/13 19:36
1,1,2-Trichloroethane	U		12	33	µg/Kg-dry	1	08/27/13 19:36
1,1,2-Trichlorotrifluoroethane	U		12	33	µg/Kg-dry	1	08/27/13 19:36
1,1-Dichloroethane	U		12	33	µg/Kg-dry	1	08/27/13 19:36
1,1-Dichloroethene	U		14	33	µg/Kg-dry	1	08/27/13 19:36
1,2,4-Trichlorobenzene	U		17	33	µg/Kg-dry	1	08/27/13 19:36
1,2-Dibromo-3-chloropropane	U		16	33	µg/Kg-dry	1	08/27/13 19:36
1,2-Dibromoethane	U		13	33	µg/Kg-dry	1	08/27/13 19:36
1,2-Dichlorobenzene	U		13	33	µg/Kg-dry	1	08/27/13 19:36
1,2-Dichloroethane	U		16	33	µg/Kg-dry	1	08/27/13 19:36
1,2-Dichloropropane	U		11	33	µg/Kg-dry	1	08/27/13 19:36
1,3-Dichlorobenzene	U		13	33	µg/Kg-dry	1	08/27/13 19:36
1,4-Dichlorobenzene	U		13	33	µg/Kg-dry	1	08/27/13 19:36
2-Butanone	U		83	220	µg/Kg-dry	1	08/27/13 19:36
2-Hexanone	U		8.2	33	µg/Kg-dry	1	08/27/13 19:36
4-Methyl-2-pentanone	U		11	33	µg/Kg-dry	1	08/27/13 19:36
Acetone	U		71	110	µg/Kg-dry	1	08/27/13 19:36
Benzene	U		13	33	µg/Kg-dry	1	08/27/13 19:36
Bromodichloromethane	U		7.5	33	µg/Kg-dry	1	08/27/13 19:36
Bromoform	U		6.6	33	µg/Kg-dry	1	08/27/13 19:36
Bromomethane	U		13	84	µg/Kg-dry	1	08/27/13 19:36
Carbon disulfide	U		17	33	µg/Kg-dry	1	08/27/13 19:36
Carbon tetrachloride	U		9.5	33	µg/Kg-dry	1	08/27/13 19:36
Chlorobenzene	U		14	33	µg/Kg-dry	1	08/27/13 19:36
Chloroethane	U		71	110	µg/Kg-dry	1	08/27/13 19:36
Chloroform	U		14	33	µg/Kg-dry	1	08/27/13 19:36
Chloromethane	U		19	110	µg/Kg-dry	1	08/27/13 19:36
cis-1,2-Dichloroethene	U		14	33	µg/Kg-dry	1	08/27/13 19:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-078
Collection Date: 08/20/13 11:30 AM

Work Order: 1308936
Lab ID: 1308936-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		11	33	µg/Kg-dry	1	08/27/13 19:36
Cyclohexane	U		15	33	µg/Kg-dry	1	08/27/13 19:36
Dibromochloromethane	U		6.2	33	µg/Kg-dry	1	08/27/13 19:36
Dichlorodifluoromethane	U		15	33	µg/Kg-dry	1	08/27/13 19:36
Ethylbenzene	U		12	33	µg/Kg-dry	1	08/27/13 19:36
Isopropylbenzene	U		14	33	µg/Kg-dry	1	08/27/13 19:36
Methyl acetate	100	J	45	220	µg/Kg-dry	1	08/27/13 19:36
Methyl tert-butyl ether	U		14	33	µg/Kg-dry	1	08/27/13 19:36
Methylcyclohexane	U		15	33	µg/Kg-dry	1	08/27/13 19:36
Methylene chloride	U		13	33	µg/Kg-dry	1	08/27/13 19:36
Styrene	U		12	33	µg/Kg-dry	1	08/27/13 19:36
Tetrachloroethene	U		15	33	µg/Kg-dry	1	08/27/13 19:36
Toluene	32	J	13	33	µg/Kg-dry	1	08/27/13 19:36
trans-1,2-Dichloroethene	U		10	33	µg/Kg-dry	1	08/27/13 19:36
trans-1,3-Dichloropropene	U		11	33	µg/Kg-dry	1	08/27/13 19:36
Trichloroethene	U		16	33	µg/Kg-dry	1	08/27/13 19:36
Trichlorofluoromethane	U		9.2	33	µg/Kg-dry	1	08/27/13 19:36
Vinyl chloride	U		15	33	µg/Kg-dry	1	08/27/13 19:36
Xylenes, Total	56	J	40	100	µg/Kg-dry	1	08/27/13 19:36
Surr: 1,2-Dichloroethane-d4	96.9			70-130	%REC	1	08/27/13 19:36
Surr: 4-Bromofluorobenzene	104			70-130	%REC	1	08/27/13 19:36
Surr: Dibromofluoromethane	93.5			70-130	%REC	1	08/27/13 19:36
Surr: Toluene-d8	94.9			70-130	%REC	1	08/27/13 19:36
MOISTURE			A2540 G				Analyst: LR
BatchID: R125753							
Moisture	5.5		0.025	0.050	% of sample	1	08/26/13 21:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-079
Collection Date: 08/20/13 11:35 AM

Work Order: 1308936
Lab ID: 1308936-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/26/13	Analyst: LR
BatchID: 50800							
Mercury	0.015	J	0.00075	0.037	mg/Kg-dry	1	08/26/13 18:14
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
BatchID: 50801							
Antimony	0.10	J	0.0016	0.40	mg/Kg-dry	1	08/28/13 01:50
Arsenic	1.4		0.054	0.40	mg/Kg-dry	1	08/28/13 01:50
Barium	21		0.011	0.40	mg/Kg-dry	1	08/28/13 01:50
Beryllium	0.096	J	0.0032	0.16	mg/Kg-dry	1	08/28/13 01:50
Cadmium	0.077	J	0.0016	0.16	mg/Kg-dry	1	08/28/13 01:50
Chromium	4.3		0.065	0.40	mg/Kg-dry	1	08/28/13 01:50
Cobalt	1.7		0.0016	0.40	mg/Kg-dry	1	08/28/13 01:50
Copper	5.2		0.078	0.40	mg/Kg-dry	1	08/28/13 01:50
Iron	4,400		1.3	13	mg/Kg-dry	1	08/28/13 01:50
Lead	6.0		0.0016	0.40	mg/Kg-dry	1	08/28/13 01:50
Molybdenum	0.27	J	0.018	0.40	mg/Kg-dry	1	08/28/13 01:50
Nickel	3.9		0.040	0.40	mg/Kg-dry	1	08/28/13 01:50
Selenium	0.39	J	0.051	0.40	mg/Kg-dry	1	08/28/13 01:50
Silver	0.0092	J	0.0016	0.40	mg/Kg-dry	1	08/28/13 01:50
Thallium	0.037	J	0.0096	0.40	mg/Kg-dry	1	08/28/13 01:50
Vanadium	8.3		0.024	0.40	mg/Kg-dry	1	08/28/13 01:50
Zinc	15		0.033	0.80	mg/Kg-dry	1	08/28/13 01:50
BatchID: 50801							
Manganese	170		0.35	4.0	mg/Kg-dry	10	08/28/13 22:03
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/26/13	Analyst: RM
BatchID: 50815							
2-Methylnaphthalene	26	J	10	82	µg/Kg-dry	1	08/28/13 15:17
Acenaphthene	U		9.4	31	µg/Kg-dry	1	08/28/13 15:17
Acenaphthylene	28	J	9.7	31	µg/Kg-dry	1	08/28/13 15:17
Anthracene	39		10	31	µg/Kg-dry	1	08/28/13 15:17
Benzo(a)anthracene	60		13	31	µg/Kg-dry	1	08/28/13 15:17
Benzo(a)pyrene	110		16	31	µg/Kg-dry	1	08/28/13 15:17
Benzo(b)fluoranthene	110		17	31	µg/Kg-dry	1	08/28/13 15:17
Benzo(g,h,i)perylene	90		24	31	µg/Kg-dry	1	08/28/13 15:17
Benzo(k)fluoranthene	59		14	31	µg/Kg-dry	1	08/28/13 15:17
Chrysene	59		12	31	µg/Kg-dry	1	08/28/13 15:17
Dibenzo(a,h)anthracene	73		18	31	µg/Kg-dry	1	08/28/13 15:17
Fluoranthene	110		12	31	µg/Kg-dry	1	08/28/13 15:17

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-079
Collection Date: 08/20/13 11:35 AM

Work Order: 1308936
Lab ID: 1308936-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		9.0	31	µg/Kg-dry	1	08/28/13 15:17
Indeno(1,2,3-cd)pyrene	80		19	31	µg/Kg-dry	1	08/28/13 15:17
Naphthalene	U		8.8	31	µg/Kg-dry	1	08/28/13 15:17
Phenanthrene	55		31	31	µg/Kg-dry	1	08/28/13 15:17
Pyrene	99		13	31	µg/Kg-dry	1	08/28/13 15:17
Surr: 2-Fluorobiphenyl	73.7			12-100	%REC	1	08/28/13 15:17
Surr: 4-Terphenyl-d14	106			25-137	%REC	1	08/28/13 15:17
Surr: Nitrobenzene-d5	62.5			37-107	%REC	1	08/28/13 15:17
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: AK
BatchID: 50820							
1,1,1-Trichloroethane	U		12	32	µg/Kg-dry	1	08/27/13 20:00
1,1,2,2-Tetrachloroethane	U		14	32	µg/Kg-dry	1	08/27/13 20:00
1,1,2-Trichloroethane	U		11	32	µg/Kg-dry	1	08/27/13 20:00
1,1,2-Trichlorotrifluoroethane	U		12	32	µg/Kg-dry	1	08/27/13 20:00
1,1-Dichloroethane	U		12	32	µg/Kg-dry	1	08/27/13 20:00
1,1-Dichloroethene	U		13	32	µg/Kg-dry	1	08/27/13 20:00
1,2,4-Trichlorobenzene	U		16	32	µg/Kg-dry	1	08/27/13 20:00
1,2-Dibromo-3-chloropropane	U		15	32	µg/Kg-dry	1	08/27/13 20:00
1,2-Dibromoethane	U		13	32	µg/Kg-dry	1	08/27/13 20:00
1,2-Dichlorobenzene	U		13	32	µg/Kg-dry	1	08/27/13 20:00
1,2-Dichloroethane	U		15	32	µg/Kg-dry	1	08/27/13 20:00
1,2-Dichloropropane	U		11	32	µg/Kg-dry	1	08/27/13 20:00
1,3-Dichlorobenzene	U		13	32	µg/Kg-dry	1	08/27/13 20:00
1,4-Dichlorobenzene	U		12	32	µg/Kg-dry	1	08/27/13 20:00
2-Butanone	U		78	210	µg/Kg-dry	1	08/27/13 20:00
2-Hexanone	U		7.8	32	µg/Kg-dry	1	08/27/13 20:00
4-Methyl-2-pentanone	U		11	32	µg/Kg-dry	1	08/27/13 20:00
Acetone	U		67	110	µg/Kg-dry	1	08/27/13 20:00
Benzene	39		13	32	µg/Kg-dry	1	08/27/13 20:00
Bromodichloromethane	U		7.1	32	µg/Kg-dry	1	08/27/13 20:00
Bromoform	U		6.2	32	µg/Kg-dry	1	08/27/13 20:00
Bromomethane	U		12	79	µg/Kg-dry	1	08/27/13 20:00
Carbon disulfide	U		16	32	µg/Kg-dry	1	08/27/13 20:00
Carbon tetrachloride	U		9.0	32	µg/Kg-dry	1	08/27/13 20:00
Chlorobenzene	U		13	32	µg/Kg-dry	1	08/27/13 20:00
Chloroethane	U		67	110	µg/Kg-dry	1	08/27/13 20:00
Chloroform	U		13	32	µg/Kg-dry	1	08/27/13 20:00
Chloromethane	U		18	110	µg/Kg-dry	1	08/27/13 20:00
cis-1,2-Dichloroethene	U		13	32	µg/Kg-dry	1	08/27/13 20:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-079
Collection Date: 08/20/13 11:35 AM

Work Order: 1308936
Lab ID: 1308936-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		11	32	µg/Kg-dry	1	08/27/13 20:00
Cyclohexane	U		14	32	µg/Kg-dry	1	08/27/13 20:00
Dibromochloromethane	U		5.9	32	µg/Kg-dry	1	08/27/13 20:00
Dichlorodifluoromethane	U		14	32	µg/Kg-dry	1	08/27/13 20:00
Ethylbenzene	21	J	12	32	µg/Kg-dry	1	08/27/13 20:00
Isopropylbenzene	U		14	32	µg/Kg-dry	1	08/27/13 20:00
Methyl acetate	U		43	210	µg/Kg-dry	1	08/27/13 20:00
Methyl tert-butyl ether	U		13	32	µg/Kg-dry	1	08/27/13 20:00
Methylcyclohexane	U		15	32	µg/Kg-dry	1	08/27/13 20:00
Methylene chloride	U		12	32	µg/Kg-dry	1	08/27/13 20:00
Styrene	U		12	32	µg/Kg-dry	1	08/27/13 20:00
Tetrachloroethene	U		14	32	µg/Kg-dry	1	08/27/13 20:00
Toluene	150		12	32	µg/Kg-dry	1	08/27/13 20:00
trans-1,2-Dichloroethene	U		9.8	32	µg/Kg-dry	1	08/27/13 20:00
trans-1,3-Dichloropropene	U		11	32	µg/Kg-dry	1	08/27/13 20:00
Trichloroethene	U		15	32	µg/Kg-dry	1	08/27/13 20:00
Trichlorofluoromethane	U		8.7	32	µg/Kg-dry	1	08/27/13 20:00
Vinyl chloride	U		14	32	µg/Kg-dry	1	08/27/13 20:00
Xylenes, Total	79	J	37	95	µg/Kg-dry	1	08/27/13 20:00
Surr: 1,2-Dichloroethane-d4	97.1			70-130	%REC	1	08/27/13 20:00
Surr: 4-Bromofluorobenzene	104			70-130	%REC	1	08/27/13 20:00
Surr: Dibromofluoromethane	94.8			70-130	%REC	1	08/27/13 20:00
Surr: Toluene-d8	96.0			70-130	%REC	1	08/27/13 20:00
MOISTURE			A2540 G			Analyst: LR	
<u>BatchID: R125753</u>							
Moisture	5.4		0.025	0.050	% of sample	1	08/26/13 21:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-080
Collection Date: 08/20/13 11:40 AM

Work Order: 1308936
Lab ID: 1308936-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/26/13	Analyst: LR
BatchID: 50800							
Mercury	0.016	J	0.00076	0.038	mg/Kg-dry	1	08/26/13 18:16
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
BatchID: 50801							
Antimony	0.12	J	0.0015	0.38	mg/Kg-dry	1	08/28/13 01:56
Arsenic	1.2		0.052	0.38	mg/Kg-dry	1	08/28/13 01:56
Barium	26		0.011	0.38	mg/Kg-dry	1	08/28/13 01:56
Beryllium	0.11	J	0.0031	0.15	mg/Kg-dry	1	08/28/13 01:56
Cadmium	0.087	J	0.0015	0.15	mg/Kg-dry	1	08/28/13 01:56
Chromium	6.2		0.063	0.38	mg/Kg-dry	1	08/28/13 01:56
Cobalt	2.0		0.0015	0.38	mg/Kg-dry	1	08/28/13 01:56
Copper	5.6		0.075	0.38	mg/Kg-dry	1	08/28/13 01:56
Iron	5,400		1.3	12	mg/Kg-dry	1	08/28/13 01:56
Lead	11		0.0015	0.38	mg/Kg-dry	1	08/28/13 01:56
Molybdenum	0.25	J	0.017	0.38	mg/Kg-dry	1	08/28/13 01:56
Nickel	4.8		0.038	0.38	mg/Kg-dry	1	08/28/13 01:56
Selenium	0.37	J	0.049	0.38	mg/Kg-dry	1	08/28/13 01:56
Silver	0.0072	J	0.0015	0.38	mg/Kg-dry	1	08/28/13 01:56
Thallium	0.039	J	0.0092	0.38	mg/Kg-dry	1	08/28/13 01:56
Vanadium	11		0.023	0.38	mg/Kg-dry	1	08/28/13 01:56
Zinc	14		0.032	0.77	mg/Kg-dry	1	08/28/13 01:56
BatchID: 50801							
Manganese	170		0.34	3.8	mg/Kg-dry	10	08/28/13 22:09
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/26/13	Analyst: RM
BatchID: 50822							
2-Methylnaphthalene	U		10	85	µg/Kg-dry	1	08/27/13 22:36
Acenaphthene	U		9.7	32	µg/Kg-dry	1	08/27/13 22:36
Acenaphthylene	31	J	10	32	µg/Kg-dry	1	08/27/13 22:36
Anthracene	41		11	32	µg/Kg-dry	1	08/27/13 22:36
Benzo(a)anthracene	72		13	32	µg/Kg-dry	1	08/27/13 22:36
Benzo(a)pyrene	120		16	32	µg/Kg-dry	1	08/27/13 22:36
Benzo(b)fluoranthene	140		17	32	µg/Kg-dry	1	08/27/13 22:36
Benzo(g,h,i)perylene	110		25	32	µg/Kg-dry	1	08/27/13 22:36
Benzo(k)fluoranthene	62		14	32	µg/Kg-dry	1	08/27/13 22:36
Chrysene	85		12	32	µg/Kg-dry	1	08/27/13 22:36
Dibenzo(a,h)anthracene	77		18	32	µg/Kg-dry	1	08/27/13 22:36
Fluoranthene	140		13	32	µg/Kg-dry	1	08/27/13 22:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-080
Collection Date: 08/20/13 11:40 AM

Work Order: 1308936
Lab ID: 1308936-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		9.3	32	µg/Kg-dry	1	08/27/13 22:36
Indeno(1,2,3-cd)pyrene	100		20	32	µg/Kg-dry	1	08/27/13 22:36
Naphthalene	U		9.0	32	µg/Kg-dry	1	08/27/13 22:36
Phenanthrene	56		32	32	µg/Kg-dry	1	08/27/13 22:36
Pyrene	110		13	32	µg/Kg-dry	1	08/27/13 22:36
Surr: 2-Fluorobiphenyl	75.4			12-100	%REC	1	08/27/13 22:36
Surr: 4-Terphenyl-d14	112			25-137	%REC	1	08/27/13 22:36
Surr: Nitrobenzene-d5	73.2			37-107	%REC	1	08/27/13 22:36
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: AK
BatchID: 50820							
1,1,1-Trichloroethane	U		13	33	µg/Kg-dry	1	08/27/13 20:25
1,1,2,2-Tetrachloroethane	U		15	33	µg/Kg-dry	1	08/27/13 20:25
1,1,2-Trichloroethane	U		12	33	µg/Kg-dry	1	08/27/13 20:25
1,1,2-Trichlorotrifluoroethane	U		12	33	µg/Kg-dry	1	08/27/13 20:25
1,1-Dichloroethane	U		12	33	µg/Kg-dry	1	08/27/13 20:25
1,1-Dichloroethene	U		14	33	µg/Kg-dry	1	08/27/13 20:25
1,2,4-Trichlorobenzene	U		17	33	µg/Kg-dry	1	08/27/13 20:25
1,2-Dibromo-3-chloropropane	U		16	33	µg/Kg-dry	1	08/27/13 20:25
1,2-Dibromoethane	U		13	33	µg/Kg-dry	1	08/27/13 20:25
1,2-Dichlorobenzene	U		13	33	µg/Kg-dry	1	08/27/13 20:25
1,2-Dichloroethane	U		16	33	µg/Kg-dry	1	08/27/13 20:25
1,2-Dichloropropane	U		11	33	µg/Kg-dry	1	08/27/13 20:25
1,3-Dichlorobenzene	U		13	33	µg/Kg-dry	1	08/27/13 20:25
1,4-Dichlorobenzene	U		13	33	µg/Kg-dry	1	08/27/13 20:25
2-Butanone	U		82	220	µg/Kg-dry	1	08/27/13 20:25
2-Hexanone	U		8.1	33	µg/Kg-dry	1	08/27/13 20:25
4-Methyl-2-pentanone	U		11	33	µg/Kg-dry	1	08/27/13 20:25
Acetone	U		70	110	µg/Kg-dry	1	08/27/13 20:25
Benzene	U		13	33	µg/Kg-dry	1	08/27/13 20:25
Bromodichloromethane	U		7.4	33	µg/Kg-dry	1	08/27/13 20:25
Bromoform	U		6.5	33	µg/Kg-dry	1	08/27/13 20:25
Bromomethane	U		13	83	µg/Kg-dry	1	08/27/13 20:25
Carbon disulfide	U		16	33	µg/Kg-dry	1	08/27/13 20:25
Carbon tetrachloride	U		9.4	33	µg/Kg-dry	1	08/27/13 20:25
Chlorobenzene	U		13	33	µg/Kg-dry	1	08/27/13 20:25
Chloroethane	U		70	110	µg/Kg-dry	1	08/27/13 20:25
Chloroform	U		14	33	µg/Kg-dry	1	08/27/13 20:25
Chloromethane	U		18	110	µg/Kg-dry	1	08/27/13 20:25
cis-1,2-Dichloroethene	U		13	33	µg/Kg-dry	1	08/27/13 20:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-080
Collection Date: 08/20/13 11:40 AM

Work Order: 1308936
Lab ID: 1308936-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		11	33	µg/Kg-dry	1	08/27/13 20:25
Cyclohexane	U		15	33	µg/Kg-dry	1	08/27/13 20:25
Dibromochloromethane	U		6.1	33	µg/Kg-dry	1	08/27/13 20:25
Dichlorodifluoromethane	U		15	33	µg/Kg-dry	1	08/27/13 20:25
Ethylbenzene	U		12	33	µg/Kg-dry	1	08/27/13 20:25
Isopropylbenzene	U		14	33	µg/Kg-dry	1	08/27/13 20:25
Methyl acetate	U		44	220	µg/Kg-dry	1	08/27/13 20:25
Methyl tert-butyl ether	U		14	33	µg/Kg-dry	1	08/27/13 20:25
Methylcyclohexane	U		15	33	µg/Kg-dry	1	08/27/13 20:25
Methylene chloride	U		13	33	µg/Kg-dry	1	08/27/13 20:25
Styrene	U		12	33	µg/Kg-dry	1	08/27/13 20:25
Tetrachloroethene	U		15	33	µg/Kg-dry	1	08/27/13 20:25
Toluene	U		12	33	µg/Kg-dry	1	08/27/13 20:25
trans-1,2-Dichloroethene	U		10	33	µg/Kg-dry	1	08/27/13 20:25
trans-1,3-Dichloropropene	U		11	33	µg/Kg-dry	1	08/27/13 20:25
Trichloroethene	U		15	33	µg/Kg-dry	1	08/27/13 20:25
Trichlorofluoromethane	U		9.1	33	µg/Kg-dry	1	08/27/13 20:25
Vinyl chloride	U		15	33	µg/Kg-dry	1	08/27/13 20:25
Xylenes, Total	U		39	99	µg/Kg-dry	1	08/27/13 20:25
Surr: 1,2-Dichloroethane-d4	97.7			70-130	%REC	1	08/27/13 20:25
Surr: 4-Bromofluorobenzene	102			70-130	%REC	1	08/27/13 20:25
Surr: Dibromofluoromethane	92.4			70-130	%REC	1	08/27/13 20:25
Surr: Toluene-d8	94.3			70-130	%REC	1	08/27/13 20:25
MOISTURE			A2540 G			Analyst: LR	
BatchID: R125753							
Moisture	6.2		0.025	0.050	% of sample	1	08/26/13 21:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-081
Collection Date: 08/20/13 11:45 AM

Work Order: 1308936
Lab ID: 1308936-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/26/13	Analyst: LR
BatchID: <u>50800</u>							
Mercury	0.013	J	0.00073	0.037	mg/Kg-dry	1	08/26/13 18:27
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
BatchID: <u>50801</u>							
Antimony	0.087	J	0.0016	0.40	mg/Kg-dry	1	08/28/13 02:02
Arsenic	1.1		0.054	0.40	mg/Kg-dry	1	08/28/13 02:02
Barium	21		0.011	0.40	mg/Kg-dry	1	08/28/13 02:02
Beryllium	0.083	J	0.0032	0.16	mg/Kg-dry	1	08/28/13 02:02
Cadmium	0.061	J	0.0016	0.16	mg/Kg-dry	1	08/28/13 02:02
Chromium	4.6		0.065	0.40	mg/Kg-dry	1	08/28/13 02:02
Cobalt	1.6		0.0016	0.40	mg/Kg-dry	1	08/28/13 02:02
Copper	3.8		0.078	0.40	mg/Kg-dry	1	08/28/13 02:02
Iron	4,400		1.3	13	mg/Kg-dry	1	08/28/13 02:02
Lead	5.9		0.0016	0.40	mg/Kg-dry	1	08/28/13 02:02
Manganese	140		0.035	0.40	mg/Kg-dry	1	08/28/13 02:02
Molybdenum	0.31	J	0.017	0.40	mg/Kg-dry	1	08/28/13 02:02
Nickel	3.7		0.040	0.40	mg/Kg-dry	1	08/28/13 02:02
Selenium	0.33	J	0.051	0.40	mg/Kg-dry	1	08/28/13 02:02
Silver	0.0049	J	0.0016	0.40	mg/Kg-dry	1	08/28/13 02:02
Thallium	0.031	J	0.0095	0.40	mg/Kg-dry	1	08/28/13 02:02
Vanadium	7.4		0.024	0.40	mg/Kg-dry	1	08/28/13 02:02
Zinc	11		0.033	0.80	mg/Kg-dry	1	08/28/13 02:02
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/26/13	Analyst: RM
BatchID: <u>50822</u>							
2-Methylnaphthalene	U		10	82	µg/Kg-dry	1	08/27/13 22:55
Acenaphthene	U		9.4	31	µg/Kg-dry	1	08/27/13 22:55
Acenaphthylene	31		9.8	31	µg/Kg-dry	1	08/27/13 22:55
Anthracene	41		10	31	µg/Kg-dry	1	08/27/13 22:55
Benzo(a)anthracene	98		13	31	µg/Kg-dry	1	08/27/13 22:55
Benzo(a)pyrene	140		16	31	µg/Kg-dry	1	08/27/13 22:55
Benzo(b)fluoranthene	160		17	31	µg/Kg-dry	1	08/27/13 22:55
Benzo(g,h,i)perylene	120		24	31	µg/Kg-dry	1	08/27/13 22:55
Benzo(k)fluoranthene	68		14	31	µg/Kg-dry	1	08/27/13 22:55
Chrysene	100		12	31	µg/Kg-dry	1	08/27/13 22:55
Dibenzo(a,h)anthracene	80		18	31	µg/Kg-dry	1	08/27/13 22:55
Fluoranthene	140		12	31	µg/Kg-dry	1	08/27/13 22:55
Fluorene	U		9.0	31	µg/Kg-dry	1	08/27/13 22:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-081
Collection Date: 08/20/13 11:45 AM

Work Order: 1308936
Lab ID: 1308936-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	120		20	31	µg/Kg-dry	1	08/27/13 22:55
Naphthalene	U		8.8	31	µg/Kg-dry	1	08/27/13 22:55
Phenanthrene	54		31	31	µg/Kg-dry	1	08/27/13 22:55
Pyrene	140		13	31	µg/Kg-dry	1	08/27/13 22:55
Surr: 2-Fluorobiphenyl	76.3			12-100	%REC	1	08/27/13 22:55
Surr: 4-Terphenyl-d14	128			25-137	%REC	1	08/27/13 22:55
Surr: Nitrobenzene-d5	72.1			37-107	%REC	1	08/27/13 22:55
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: AK
BatchID: 50820							
1,1,1-Trichloroethane	U		13	33	µg/Kg-dry	1	08/27/13 20:50
1,1,2,2-Tetrachloroethane	U		15	33	µg/Kg-dry	1	08/27/13 20:50
1,1,2-Trichloroethane	U		12	33	µg/Kg-dry	1	08/27/13 20:50
1,1,2-Trichlorotrifluoroethane	U		12	33	µg/Kg-dry	1	08/27/13 20:50
1,1-Dichloroethane	U		12	33	µg/Kg-dry	1	08/27/13 20:50
1,1-Dichloroethene	U		14	33	µg/Kg-dry	1	08/27/13 20:50
1,2,4-Trichlorobenzene	U		17	33	µg/Kg-dry	1	08/27/13 20:50
1,2-Dibromo-3-chloropropane	U		16	33	µg/Kg-dry	1	08/27/13 20:50
1,2-Dibromoethane	U		13	33	µg/Kg-dry	1	08/27/13 20:50
1,2-Dichlorobenzene	U		13	33	µg/Kg-dry	1	08/27/13 20:50
1,2-Dichloroethane	U		16	33	µg/Kg-dry	1	08/27/13 20:50
1,2-Dichloropropane	U		11	33	µg/Kg-dry	1	08/27/13 20:50
1,3-Dichlorobenzene	U		13	33	µg/Kg-dry	1	08/27/13 20:50
1,4-Dichlorobenzene	U		13	33	µg/Kg-dry	1	08/27/13 20:50
2-Butanone	U		83	220	µg/Kg-dry	1	08/27/13 20:50
2-Hexanone	U		8.2	33	µg/Kg-dry	1	08/27/13 20:50
4-Methyl-2-pentanone	U		11	33	µg/Kg-dry	1	08/27/13 20:50
Acetone	U		71	110	µg/Kg-dry	1	08/27/13 20:50
Benzene	110		13	33	µg/Kg-dry	1	08/27/13 20:50
Bromodichloromethane	U		7.5	33	µg/Kg-dry	1	08/27/13 20:50
Bromoform	U		6.6	33	µg/Kg-dry	1	08/27/13 20:50
Bromomethane	U		13	84	µg/Kg-dry	1	08/27/13 20:50
Carbon disulfide	U		17	33	µg/Kg-dry	1	08/27/13 20:50
Carbon tetrachloride	U		9.5	33	µg/Kg-dry	1	08/27/13 20:50
Chlorobenzene	U		14	33	µg/Kg-dry	1	08/27/13 20:50
Chloroethane	U		71	110	µg/Kg-dry	1	08/27/13 20:50
Chloroform	U		14	33	µg/Kg-dry	1	08/27/13 20:50
Chloromethane	U		19	110	µg/Kg-dry	1	08/27/13 20:50
cis-1,2-Dichloroethene	U		14	33	µg/Kg-dry	1	08/27/13 20:50
cis-1,3-Dichloropropene	U		11	33	µg/Kg-dry	1	08/27/13 20:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-081
Collection Date: 08/20/13 11:45 AM

Work Order: 1308936
Lab ID: 1308936-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		15	33	µg/Kg-dry	1	08/27/13 20:50
Dibromochloromethane	U		6.2	33	µg/Kg-dry	1	08/27/13 20:50
Dichlorodifluoromethane	U		15	33	µg/Kg-dry	1	08/27/13 20:50
Ethylbenzene	84		12	33	µg/Kg-dry	1	08/27/13 20:50
Isopropylbenzene	42		14	33	µg/Kg-dry	1	08/27/13 20:50
Methyl acetate	U		45	220	µg/Kg-dry	1	08/27/13 20:50
Methyl tert-butyl ether	U		14	33	µg/Kg-dry	1	08/27/13 20:50
Methylcyclohexane	140		15	33	µg/Kg-dry	1	08/27/13 20:50
Methylene chloride	U		13	33	µg/Kg-dry	1	08/27/13 20:50
Styrene	U		12	33	µg/Kg-dry	1	08/27/13 20:50
Tetrachloroethene	U		15	33	µg/Kg-dry	1	08/27/13 20:50
Toluene	400		13	33	µg/Kg-dry	1	08/27/13 20:50
trans-1,2-Dichloroethene	U		10	33	µg/Kg-dry	1	08/27/13 20:50
trans-1,3-Dichloropropene	U		11	33	µg/Kg-dry	1	08/27/13 20:50
Trichloroethene	U		16	33	µg/Kg-dry	1	08/27/13 20:50
Trichlorofluoromethane	U		9.2	33	µg/Kg-dry	1	08/27/13 20:50
Vinyl chloride	U		15	33	µg/Kg-dry	1	08/27/13 20:50
Xylenes, Total	340		39	100	µg/Kg-dry	1	08/27/13 20:50
Surr: 1,2-Dichloroethane-d4	99.8			70-130	%REC	1	08/27/13 20:50
Surr: 4-Bromofluorobenzene	106			70-130	%REC	1	08/27/13 20:50
Surr: Dibromofluoromethane	94.6			70-130	%REC	1	08/27/13 20:50
Surr: Toluene-d8	98.4			70-130	%REC	1	08/27/13 20:50
MOISTURE			A2540 G				Analyst: LR
<u>BatchID: R125753</u>							
Moisture	5.9		0.025	0.050	% of sample	1	08/26/13 21:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-082
Collection Date: 08/20/13 11:50 AM

Work Order: 1308936
Lab ID: 1308936-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471			Prep: SW7471 / 8/26/13	Analyst: LR
<u>BatchID: 50800</u>							
Mercury	0.012	J	0.00077	0.038	mg/Kg-dry	1	08/26/13 18:29
METALS BY ICP-MS			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
<u>BatchID: 50801</u>							
Antimony	0.043	J	0.0015	0.37	mg/Kg-dry	1	08/28/13 02:27
Arsenic	0.95		0.051	0.37	mg/Kg-dry	1	08/28/13 02:27
Barium	12		0.010	0.37	mg/Kg-dry	1	08/28/13 02:27
Beryllium	0.063	J	0.0030	0.15	mg/Kg-dry	1	08/28/13 02:27
Cadmium	0.045	J	0.0015	0.15	mg/Kg-dry	1	08/28/13 02:27
Chromium	3.6		0.061	0.37	mg/Kg-dry	1	08/28/13 02:27
Cobalt	1.3		0.0015	0.37	mg/Kg-dry	1	08/28/13 02:27
Copper	2.4		0.073	0.37	mg/Kg-dry	1	08/28/13 02:27
Iron	3,900		1.2	12	mg/Kg-dry	1	08/28/13 02:27
Lead	2.5		0.0015	0.37	mg/Kg-dry	1	08/28/13 02:27
Manganese	93		0.033	0.37	mg/Kg-dry	1	08/28/13 02:27
Molybdenum	0.14	J	0.016	0.37	mg/Kg-dry	1	08/28/13 02:27
Nickel	3.2		0.037	0.37	mg/Kg-dry	1	08/28/13 02:27
Selenium	0.24	J	0.048	0.37	mg/Kg-dry	1	08/28/13 02:27
Silver	0.0017	J	0.0015	0.37	mg/Kg-dry	1	08/28/13 02:27
Thallium	0.027	J	0.0090	0.37	mg/Kg-dry	1	08/28/13 02:27
Vanadium	6.1		0.022	0.37	mg/Kg-dry	1	08/28/13 02:27
Zinc	14		0.031	0.75	mg/Kg-dry	1	08/28/13 02:27
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3541 / 8/26/13	Analyst: RM
<u>BatchID: 50822</u>							
2-Methylnaphthalene	U		10	83	µg/Kg-dry	1	08/27/13 14:26
Acenaphthene	U		9.5	31	µg/Kg-dry	1	08/27/13 14:26
Acenaphthylene	U		9.9	31	µg/Kg-dry	1	08/27/13 14:26
Anthracene	47		11	31	µg/Kg-dry	1	08/27/13 14:26
Benzo(a)anthracene	89		13	31	µg/Kg-dry	1	08/27/13 14:26
Benzo(a)pyrene	120		16	31	µg/Kg-dry	1	08/27/13 14:26
Benzo(b)fluoranthene	130		17	31	µg/Kg-dry	1	08/27/13 14:26
Benzo(g,h,i)perylene	80		25	31	µg/Kg-dry	1	08/27/13 14:26
Benzo(k)fluoranthene	60		14	31	µg/Kg-dry	1	08/27/13 14:26
Chrysene	84		12	31	µg/Kg-dry	1	08/27/13 14:26
Dibenzo(a,h)anthracene	67		18	31	µg/Kg-dry	1	08/27/13 14:26
Fluoranthene	170		12	31	µg/Kg-dry	1	08/27/13 14:26
Fluorene	U		9.1	31	µg/Kg-dry	1	08/27/13 14:26

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-082
Collection Date: 08/20/13 11:50 AM

Work Order: 1308936
Lab ID: 1308936-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	65		20	31	µg/Kg-dry	1	08/27/13 14:26
Naphthalene	U		8.9	31	µg/Kg-dry	1	08/27/13 14:26
Phenanthrene	110		31	31	µg/Kg-dry	1	08/27/13 14:26
Pyrene	140		13	31	µg/Kg-dry	1	08/27/13 14:26
Surr: 2-Fluorobiphenyl	80.9			12-100	%REC	1	08/27/13 14:26
Surr: 4-Terphenyl-d14	117			25-137	%REC	1	08/27/13 14:26
Surr: Nitrobenzene-d5	78.1			37-107	%REC	1	08/27/13 14:26
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: AK
BatchID: 50820							
1,1,1-Trichloroethane	U		12	32	µg/Kg-dry	1	08/27/13 21:14
1,1,2,2-Tetrachloroethane	U		14	32	µg/Kg-dry	1	08/27/13 21:14
1,1,2-Trichloroethane	U		11	32	µg/Kg-dry	1	08/27/13 21:14
1,1,2-Trichlorotrifluoroethane	U		12	32	µg/Kg-dry	1	08/27/13 21:14
1,1-Dichloroethane	U		12	32	µg/Kg-dry	1	08/27/13 21:14
1,1-Dichloroethene	U		14	32	µg/Kg-dry	1	08/27/13 21:14
1,2,4-Trichlorobenzene	U		17	32	µg/Kg-dry	1	08/27/13 21:14
1,2-Dibromo-3-chloropropane	U		16	32	µg/Kg-dry	1	08/27/13 21:14
1,2-Dibromoethane	U		13	32	µg/Kg-dry	1	08/27/13 21:14
1,2-Dichlorobenzene	U		13	32	µg/Kg-dry	1	08/27/13 21:14
1,2-Dichloroethane	U		15	32	µg/Kg-dry	1	08/27/13 21:14
1,2-Dichloropropane	U		11	32	µg/Kg-dry	1	08/27/13 21:14
1,3-Dichlorobenzene	U		13	32	µg/Kg-dry	1	08/27/13 21:14
1,4-Dichlorobenzene	U		12	32	µg/Kg-dry	1	08/27/13 21:14
2-Butanone	U		80	210	µg/Kg-dry	1	08/27/13 21:14
2-Hexanone	U		7.9	32	µg/Kg-dry	1	08/27/13 21:14
4-Methyl-2-pentanone	U		11	32	µg/Kg-dry	1	08/27/13 21:14
Acetone	U		68	110	µg/Kg-dry	1	08/27/13 21:14
Benzene	U		13	32	µg/Kg-dry	1	08/27/13 21:14
Bromodichloromethane	U		7.2	32	µg/Kg-dry	1	08/27/13 21:14
Bromoform	U		6.3	32	µg/Kg-dry	1	08/27/13 21:14
Bromomethane	U		12	80	µg/Kg-dry	1	08/27/13 21:14
Carbon disulfide	U		16	32	µg/Kg-dry	1	08/27/13 21:14
Carbon tetrachloride	U		9.1	32	µg/Kg-dry	1	08/27/13 21:14
Chlorobenzene	U		13	32	µg/Kg-dry	1	08/27/13 21:14
Chloroethane	U		68	110	µg/Kg-dry	1	08/27/13 21:14
Chloroform	U		13	32	µg/Kg-dry	1	08/27/13 21:14
Chloromethane	U		18	110	µg/Kg-dry	1	08/27/13 21:14
cis-1,2-Dichloroethene	U		13	32	µg/Kg-dry	1	08/27/13 21:14
cis-1,3-Dichloropropene	U		11	32	µg/Kg-dry	1	08/27/13 21:14

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-082
Collection Date: 08/20/13 11:50 AM

Work Order: 1308936
Lab ID: 1308936-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane		U	14	32	µg/Kg-dry	1	08/27/13 21:14
Dibromochloromethane		U	6.0	32	µg/Kg-dry	1	08/27/13 21:14
Dichlorodifluoromethane		U	15	32	µg/Kg-dry	1	08/27/13 21:14
Ethylbenzene		U	12	32	µg/Kg-dry	1	08/27/13 21:14
Isopropylbenzene		U	14	32	µg/Kg-dry	1	08/27/13 21:14
Methyl acetate		U	43	210	µg/Kg-dry	1	08/27/13 21:14
Methyl tert-butyl ether		U	14	32	µg/Kg-dry	1	08/27/13 21:14
Methylcyclohexane		U	15	32	µg/Kg-dry	1	08/27/13 21:14
Methylene chloride		U	13	32	µg/Kg-dry	1	08/27/13 21:14
Styrene		U	12	32	µg/Kg-dry	1	08/27/13 21:14
Tetrachloroethene		U	14	32	µg/Kg-dry	1	08/27/13 21:14
Toluene		U	12	32	µg/Kg-dry	1	08/27/13 21:14
trans-1,2-Dichloroethene		U	9.9	32	µg/Kg-dry	1	08/27/13 21:14
trans-1,3-Dichloropropene		U	11	32	µg/Kg-dry	1	08/27/13 21:14
Trichloroethene		U	15	32	µg/Kg-dry	1	08/27/13 21:14
Trichlorofluoromethane		U	8.9	32	µg/Kg-dry	1	08/27/13 21:14
Vinyl chloride		U	15	32	µg/Kg-dry	1	08/27/13 21:14
Xylenes, Total		U	38	97	µg/Kg-dry	1	08/27/13 21:14
Surr: 1,2-Dichloroethane-d4	98.4			70-130	%REC	1	08/27/13 21:14
Surr: 4-Bromofluorobenzene	103			70-130	%REC	1	08/27/13 21:14
Surr: Dibromofluoromethane	95.4			70-130	%REC	1	08/27/13 21:14
Surr: Toluene-d8	94.3			70-130	%REC	1	08/27/13 21:14
MOISTURE			A2540 G			Analyst: LR	
<u>BatchID: R125753</u>							
Moisture	4.6		0.025	0.050	% of sample	1	08/26/13 21:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-084
Collection Date: 08/20/13 12:00 PM

Work Order: 1308936
Lab ID: 1308936-17
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471			Prep: SW7471 / 8/28/13	Analyst: LR
<u>BatchID: 50875</u>							
Mercury	0.0071	J	0.00072	0.036	mg/Kg-dry	1	08/28/13 15:42
METALS BY ICP-MS			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
<u>BatchID: 50801</u>							
Antimony	0.073	J	0.0015	0.38	mg/Kg-dry	1	08/28/13 02:46
Arsenic	1.0		0.052	0.38	mg/Kg-dry	1	08/28/13 02:46
Barium	11		0.011	0.38	mg/Kg-dry	1	08/28/13 02:46
Beryllium	0.062	J	0.0030	0.15	mg/Kg-dry	1	08/28/13 02:46
Cadmium	0.038	J	0.0015	0.15	mg/Kg-dry	1	08/28/13 02:46
Chromium	8.4		0.062	0.38	mg/Kg-dry	1	08/28/13 02:46
Cobalt	1.5		0.0015	0.38	mg/Kg-dry	1	08/28/13 02:46
Copper	2.9		0.075	0.38	mg/Kg-dry	1	08/28/13 02:46
Iron	3,900		1.3	12	mg/Kg-dry	1	08/28/13 02:46
Lead	3.6		0.0015	0.38	mg/Kg-dry	1	08/28/13 02:46
Manganese	98		0.033	0.38	mg/Kg-dry	1	08/28/13 02:46
Molybdenum	1.6		0.017	0.38	mg/Kg-dry	1	08/28/13 02:46
Nickel	3.9		0.038	0.38	mg/Kg-dry	1	08/28/13 02:46
Selenium	0.33	J	0.049	0.38	mg/Kg-dry	1	08/28/13 02:46
Silver	0.0065	J	0.0015	0.38	mg/Kg-dry	1	08/28/13 02:46
Thallium	0.071	J	0.0091	0.38	mg/Kg-dry	1	08/28/13 02:46
Vanadium	6.7		0.023	0.38	mg/Kg-dry	1	08/28/13 02:46
Zinc	8.2		0.032	0.76	mg/Kg-dry	1	08/28/13 02:46
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3541 / 8/26/13	Analyst: RM
<u>BatchID: 50822</u>							
2-Methylnaphthalene	U		10	83	µg/Kg-dry	1	08/27/13 23:15
Acenaphthene	U		9.4	31	µg/Kg-dry	1	08/27/13 23:15
Acenaphthylene	U		9.8	31	µg/Kg-dry	1	08/27/13 23:15
Anthracene	31	J	10	31	µg/Kg-dry	1	08/27/13 23:15
Benzo(a)anthracene	28	J	13	31	µg/Kg-dry	1	08/27/13 23:15
Benzo(a)pyrene	78		16	31	µg/Kg-dry	1	08/27/13 23:15
Benzo(b)fluoranthene	68		17	31	µg/Kg-dry	1	08/27/13 23:15
Benzo(g,h,i)perylene	67		24	31	µg/Kg-dry	1	08/27/13 23:15
Benzo(k)fluoranthene	42		14	31	µg/Kg-dry	1	08/27/13 23:15
Chrysene	25	J	12	31	µg/Kg-dry	1	08/27/13 23:15
Dibenzo(a,h)anthracene	U		18	31	µg/Kg-dry	1	08/27/13 23:15
Fluoranthene	70		12	31	µg/Kg-dry	1	08/27/13 23:15
Fluorene	U		9.0	31	µg/Kg-dry	1	08/27/13 23:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-084
Collection Date: 08/20/13 12:00 PM

Work Order: 1308936
Lab ID: 1308936-17
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	45		20	31	µg/Kg-dry	1	08/27/13 23:15
Naphthalene	U		8.8	31	µg/Kg-dry	1	08/27/13 23:15
Phenanthrene	U		31	31	µg/Kg-dry	1	08/27/13 23:15
Pyrene	49		13	31	µg/Kg-dry	1	08/27/13 23:15
Surr: 2-Fluorobiphenyl	76.3			12-100	%REC	1	08/27/13 23:15
Surr: 4-Terphenyl-d14	121			25-137	%REC	1	08/27/13 23:15
Surr: Nitrobenzene-d5	72.5			37-107	%REC	1	08/27/13 23:15
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: AK
BatchID: 50820							
1,1,1-Trichloroethane	U		13	34	µg/Kg-dry	1	08/27/13 21:39
1,1,2,2-Tetrachloroethane	U		15	34	µg/Kg-dry	1	08/27/13 21:39
1,1,2-Trichloroethane	U		12	34	µg/Kg-dry	1	08/27/13 21:39
1,1,2-Trichlorotrifluoroethane	U		13	34	µg/Kg-dry	1	08/27/13 21:39
1,1-Dichloroethane	U		13	34	µg/Kg-dry	1	08/27/13 21:39
1,1-Dichloroethene	U		14	34	µg/Kg-dry	1	08/27/13 21:39
1,2,4-Trichlorobenzene	U		18	34	µg/Kg-dry	1	08/27/13 21:39
1,2-Dibromo-3-chloropropane	U		17	34	µg/Kg-dry	1	08/27/13 21:39
1,2-Dibromoethane	U		14	34	µg/Kg-dry	1	08/27/13 21:39
1,2-Dichlorobenzene	U		14	34	µg/Kg-dry	1	08/27/13 21:39
1,2-Dichloroethane	U		16	34	µg/Kg-dry	1	08/27/13 21:39
1,2-Dichloropropane	U		11	34	µg/Kg-dry	1	08/27/13 21:39
1,3-Dichlorobenzene	U		14	34	µg/Kg-dry	1	08/27/13 21:39
1,4-Dichlorobenzene	U		13	34	µg/Kg-dry	1	08/27/13 21:39
2-Butanone	U		85	230	µg/Kg-dry	1	08/27/13 21:39
2-Hexanone	U		8.4	34	µg/Kg-dry	1	08/27/13 21:39
4-Methyl-2-pentanone	U		12	34	µg/Kg-dry	1	08/27/13 21:39
Acetone	U		73	110	µg/Kg-dry	1	08/27/13 21:39
Benzene	U		14	34	µg/Kg-dry	1	08/27/13 21:39
Bromodichloromethane	U		7.7	34	µg/Kg-dry	1	08/27/13 21:39
Bromoform	U		6.8	34	µg/Kg-dry	1	08/27/13 21:39
Bromomethane	U		13	86	µg/Kg-dry	1	08/27/13 21:39
Carbon disulfide	U		17	34	µg/Kg-dry	1	08/27/13 21:39
Carbon tetrachloride	U		9.7	34	µg/Kg-dry	1	08/27/13 21:39
Chlorobenzene	U		14	34	µg/Kg-dry	1	08/27/13 21:39
Chloroethane	U		73	110	µg/Kg-dry	1	08/27/13 21:39
Chloroform	U		14	34	µg/Kg-dry	1	08/27/13 21:39
Chloromethane	U		19	110	µg/Kg-dry	1	08/27/13 21:39
cis-1,2-Dichloroethene	U		14	34	µg/Kg-dry	1	08/27/13 21:39
cis-1,3-Dichloropropene	U		12	34	µg/Kg-dry	1	08/27/13 21:39

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-084
Collection Date: 08/20/13 12:00 PM

Work Order: 1308936
Lab ID: 1308936-17
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		15	34	µg/Kg-dry	1	08/27/13 21:39
Dibromochloromethane	U		6.3	34	µg/Kg-dry	1	08/27/13 21:39
Dichlorodifluoromethane	U		15	34	µg/Kg-dry	1	08/27/13 21:39
Ethylbenzene	38		13	34	µg/Kg-dry	1	08/27/13 21:39
Isopropylbenzene	U		15	34	µg/Kg-dry	1	08/27/13 21:39
Methyl acetate	590		46	230	µg/Kg-dry	1	08/27/13 21:39
Methyl tert-butyl ether	U		15	34	µg/Kg-dry	1	08/27/13 21:39
Methylcyclohexane	U		16	34	µg/Kg-dry	1	08/27/13 21:39
Methylene chloride	U		13	34	µg/Kg-dry	1	08/27/13 21:39
Styrene	U		13	34	µg/Kg-dry	1	08/27/13 21:39
Tetrachloroethene	U		15	34	µg/Kg-dry	1	08/27/13 21:39
Toluene	U		13	34	µg/Kg-dry	1	08/27/13 21:39
trans-1,2-Dichloroethene	U		11	34	µg/Kg-dry	1	08/27/13 21:39
trans-1,3-Dichloropropene	U		11	34	µg/Kg-dry	1	08/27/13 21:39
Trichloroethene	U		16	34	µg/Kg-dry	1	08/27/13 21:39
Trichlorofluoromethane	U		9.4	34	µg/Kg-dry	1	08/27/13 21:39
Vinyl chloride	U		15	34	µg/Kg-dry	1	08/27/13 21:39
Xylenes, Total	230		41	100	µg/Kg-dry	1	08/27/13 21:39
Surr: 1,2-Dichloroethane-d4	97.0			70-130	%REC	1	08/27/13 21:39
Surr: 4-Bromofluorobenzene	98.6			70-130	%REC	1	08/27/13 21:39
Surr: Dibromofluoromethane	94.8			70-130	%REC	1	08/27/13 21:39
Surr: Toluene-d8	96.0			70-130	%REC	1	08/27/13 21:39
MOISTURE			A2540 G				Analyst: LR
<u>BatchID: R125753</u>							
Moisture	4.0		0.025	0.050	% of sample	1	08/26/13 21:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-085
Collection Date: 08/20/13 12:25 PM

Work Order: 1308936
Lab ID: 1308936-18
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/28/13	Analyst: LR
BatchID: 50875							
Mercury	0.017	J	0.00077	0.039	mg/Kg-dry	1	08/29/13 12:19
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
BatchID: 50801							
Antimony	0.26	J	0.0015	0.38	mg/Kg-dry	1	08/28/13 02:52
Arsenic	1.5		0.052	0.38	mg/Kg-dry	1	08/28/13 02:52
Barium	25		0.011	0.38	mg/Kg-dry	1	08/28/13 02:52
Beryllium	0.071	J	0.0031	0.15	mg/Kg-dry	1	08/28/13 02:52
Cadmium	0.076	J	0.0015	0.15	mg/Kg-dry	1	08/28/13 02:52
Chromium	5.8		0.063	0.38	mg/Kg-dry	1	08/28/13 02:52
Cobalt	2.0		0.0015	0.38	mg/Kg-dry	1	08/28/13 02:52
Copper	6.9		0.075	0.38	mg/Kg-dry	1	08/28/13 02:52
Iron	4,700		1.3	12	mg/Kg-dry	1	08/28/13 02:52
Lead	51		0.0015	0.38	mg/Kg-dry	1	08/28/13 02:52
Molybdenum	0.32	J	0.017	0.38	mg/Kg-dry	1	08/28/13 02:52
Nickel	4.8		0.038	0.38	mg/Kg-dry	1	08/28/13 02:52
Selenium	0.32	J	0.049	0.38	mg/Kg-dry	1	08/28/13 02:52
Silver	0.011	J	0.0015	0.38	mg/Kg-dry	1	08/28/13 02:52
Thallium	0.053	J	0.0092	0.38	mg/Kg-dry	1	08/28/13 02:52
Vanadium	8.3		0.023	0.38	mg/Kg-dry	1	08/28/13 02:52
Zinc	15		0.032	0.77	mg/Kg-dry	1	08/28/13 02:52
BatchID: 50801							
Manganese	150		0.34	3.8	mg/Kg-dry	10	08/28/13 22:47
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/26/13	Analyst: HL
BatchID: 50822							
2-Methylnaphthalene	U		100	820	µg/Kg-dry	10	08/27/13 19:56
Acenaphthene	U		93	310	µg/Kg-dry	10	08/27/13 19:56
Acenaphthylene	U		97	310	µg/Kg-dry	10	08/27/13 19:56
Anthracene	250	J	100	310	µg/Kg-dry	10	08/27/13 19:56
Benzo(a)anthracene	710		120	310	µg/Kg-dry	10	08/27/13 19:56
Benzo(a)pyrene	470		160	310	µg/Kg-dry	10	08/27/13 19:56
Benzo(b)fluoranthene	770		170	310	µg/Kg-dry	10	08/27/13 19:56
Benzo(g,h,i)perylene	250	J	240	310	µg/Kg-dry	10	08/27/13 19:56
Benzo(k)fluoranthene	280	J	140	310	µg/Kg-dry	10	08/27/13 19:56
Chrysene	640		120	310	µg/Kg-dry	10	08/27/13 19:56
Dibenzo(a,h)anthracene	U		170	310	µg/Kg-dry	10	08/27/13 19:56
Fluoranthene	1,600		120	310	µg/Kg-dry	10	08/27/13 19:56

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-085
Collection Date: 08/20/13 12:25 PM

Work Order: 1308936
Lab ID: 1308936-18
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		90	310	µg/Kg-dry	10	08/27/13 19:56
Indeno(1,2,3-cd)pyrene	250	J	190	310	µg/Kg-dry	10	08/27/13 19:56
Naphthalene	U		87	310	µg/Kg-dry	10	08/27/13 19:56
Phenanthrene	1,500		310	310	µg/Kg-dry	10	08/27/13 19:56
Pyrene	1,500		130	310	µg/Kg-dry	10	08/27/13 19:56
Surr: 2-Fluorobiphenyl	53.0			12-100	%REC	10	08/27/13 19:56
Surr: 4-Terphenyl-d14	75.6			25-137	%REC	10	08/27/13 19:56
Surr: Nitrobenzene-d5	37.8			37-107	%REC	10	08/27/13 19:56
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: AK
BatchID: 50820							
1,1,1-Trichloroethane	U		13	35	µg/Kg-dry	1	08/28/13 15:23
1,1,2,2-Tetrachloroethane	U		15	35	µg/Kg-dry	1	08/28/13 15:23
1,1,2-Trichloroethane	U		12	35	µg/Kg-dry	1	08/28/13 15:23
1,1,2-Trichlorotrifluoroethane	U		13	35	µg/Kg-dry	1	08/28/13 15:23
1,1-Dichloroethane	U		13	35	µg/Kg-dry	1	08/28/13 15:23
1,1-Dichloroethene	U		15	35	µg/Kg-dry	1	08/28/13 15:23
1,2,4-Trichlorobenzene	U		18	35	µg/Kg-dry	1	08/28/13 15:23
1,2-Dibromo-3-chloropropane	U		17	35	µg/Kg-dry	1	08/28/13 15:23
1,2-Dibromoethane	U		14	35	µg/Kg-dry	1	08/28/13 15:23
1,2-Dichlorobenzene	U		14	35	µg/Kg-dry	1	08/28/13 15:23
1,2-Dichloroethane	U		16	35	µg/Kg-dry	1	08/28/13 15:23
1,2-Dichloropropane	U		11	35	µg/Kg-dry	1	08/28/13 15:23
1,3-Dichlorobenzene	U		14	35	µg/Kg-dry	1	08/28/13 15:23
1,4-Dichlorobenzene	U		13	35	µg/Kg-dry	1	08/28/13 15:23
2-Butanone	U		85	230	µg/Kg-dry	1	08/28/13 15:23
2-Hexanone	U		8.5	35	µg/Kg-dry	1	08/28/13 15:23
4-Methyl-2-pentanone	U		12	35	µg/Kg-dry	1	08/28/13 15:23
Acetone	U		73	120	µg/Kg-dry	1	08/28/13 15:23
Benzene	U		14	35	µg/Kg-dry	1	08/28/13 15:23
Bromodichloromethane	U		7.8	35	µg/Kg-dry	1	08/28/13 15:23
Bromoform	U		6.8	35	µg/Kg-dry	1	08/28/13 15:23
Bromomethane	U		13	86	µg/Kg-dry	1	08/28/13 15:23
Carbon disulfide	U		17	35	µg/Kg-dry	1	08/28/13 15:23
Carbon tetrachloride	U		9.8	35	µg/Kg-dry	1	08/28/13 15:23
Chlorobenzene	U		14	35	µg/Kg-dry	1	08/28/13 15:23
Chloroethane	U		73	120	µg/Kg-dry	1	08/28/13 15:23
Chloroform	U		14	35	µg/Kg-dry	1	08/28/13 15:23
Chloromethane	U		19	120	µg/Kg-dry	1	08/28/13 15:23
cis-1,2-Dichloroethene	U		14	35	µg/Kg-dry	1	08/28/13 15:23

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-085
Collection Date: 08/20/13 12:25 PM

Work Order: 1308936
Lab ID: 1308936-18
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		12	35	µg/Kg-dry	1	08/28/13 15:23
Cyclohexane	U		16	35	µg/Kg-dry	1	08/28/13 15:23
Dibromochloromethane	U		6.4	35	µg/Kg-dry	1	08/28/13 15:23
Dichlorodifluoromethane	U		16	35	µg/Kg-dry	1	08/28/13 15:23
Ethylbenzene	U		13	35	µg/Kg-dry	1	08/28/13 15:23
Isopropylbenzene	U		15	35	µg/Kg-dry	1	08/28/13 15:23
Methyl acetate	110	J	46	230	µg/Kg-dry	1	08/28/13 15:23
Methyl tert-butyl ether	U		15	35	µg/Kg-dry	1	08/28/13 15:23
Methylcyclohexane	U		16	35	µg/Kg-dry	1	08/28/13 15:23
Methylene chloride	U		14	35	µg/Kg-dry	1	08/28/13 15:23
Styrene	U		13	35	µg/Kg-dry	1	08/28/13 15:23
Tetrachloroethene	U		15	35	µg/Kg-dry	1	08/28/13 15:23
Toluene	35		13	35	µg/Kg-dry	1	08/28/13 15:23
trans-1,2-Dichloroethene	U		11	35	µg/Kg-dry	1	08/28/13 15:23
trans-1,3-Dichloropropene	U		12	35	µg/Kg-dry	1	08/28/13 15:23
Trichloroethene	U		16	35	µg/Kg-dry	1	08/28/13 15:23
Trichlorofluoromethane	U		9.5	35	µg/Kg-dry	1	08/28/13 15:23
Vinyl chloride	U		16	35	µg/Kg-dry	1	08/28/13 15:23
Xylenes, Total	120		41	100	µg/Kg-dry	1	08/28/13 15:23
Surr: 1,2-Dichloroethane-d4	100			70-130	%REC	1	08/28/13 15:23
Surr: 4-Bromofluorobenzene	101			70-130	%REC	1	08/28/13 15:23
Surr: Dibromofluoromethane	97.7			70-130	%REC	1	08/28/13 15:23
Surr: Toluene-d8	98.0			70-130	%REC	1	08/28/13 15:23
MOISTURE			A2540 G				Analyst: LR
<u>BatchID: R125753</u>							
Moisture	3.8		0.025	0.050	% of sample	1	08/26/13 21:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-086
Collection Date: 08/20/13 12:30 PM

Work Order: 1308936
Lab ID: 1308936-19
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/28/13	Analyst: LR
<u>BatchID: 50875</u>							
Mercury	0.0087	J	0.00075	0.037	mg/Kg-dry	1	08/29/13 12:21
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
<u>BatchID: 50801</u>							
Antimony	0.046	J	0.0015	0.38	mg/Kg-dry	1	08/28/13 02:58
Arsenic	1.2		0.051	0.38	mg/Kg-dry	1	08/28/13 02:58
Barium	36		0.011	0.38	mg/Kg-dry	1	08/28/13 02:58
Beryllium	0.11	J	0.0030	0.15	mg/Kg-dry	1	08/28/13 02:58
Cadmium	0.057	J	0.0015	0.15	mg/Kg-dry	1	08/28/13 02:58
Chromium	6.6		0.062	0.38	mg/Kg-dry	1	08/28/13 02:58
Cobalt	3.0		0.0015	0.38	mg/Kg-dry	1	08/28/13 02:58
Copper	5.5		0.074	0.38	mg/Kg-dry	1	08/28/13 02:58
Iron	8,500		1.3	12	mg/Kg-dry	1	08/28/13 02:58
Lead	4.6		0.0015	0.38	mg/Kg-dry	1	08/28/13 02:58
Molybdenum	0.23	J	0.017	0.38	mg/Kg-dry	1	08/28/13 02:58
Nickel	5.6		0.038	0.38	mg/Kg-dry	1	08/28/13 02:58
Selenium	0.41		0.048	0.38	mg/Kg-dry	1	08/28/13 02:58
Silver	0.0067	J	0.0015	0.38	mg/Kg-dry	1	08/28/13 02:58
Thallium	0.050	J	0.0090	0.38	mg/Kg-dry	1	08/28/13 02:58
Vanadium	23		0.023	0.38	mg/Kg-dry	1	08/28/13 02:58
Zinc	15		0.032	0.75	mg/Kg-dry	1	08/28/13 02:58
<u>BatchID: 50801</u>							
Manganese	300		0.33	3.8	mg/Kg-dry	10	08/28/13 22:53
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/26/13	Analyst: RM
<u>BatchID: 50822</u>							
2-Methylnaphthalene	U		10	83	µg/Kg-dry	1	08/27/13 23:34
Acenaphthene	U		9.5	31	µg/Kg-dry	1	08/27/13 23:34
Acenaphthylene	U		9.9	31	µg/Kg-dry	1	08/27/13 23:34
Anthracene	U		11	31	µg/Kg-dry	1	08/27/13 23:34
Benzo(a)anthracene	U		13	31	µg/Kg-dry	1	08/27/13 23:34
Benzo(a)pyrene	U		16	31	µg/Kg-dry	1	08/27/13 23:34
Benzo(b)fluoranthene	U		17	31	µg/Kg-dry	1	08/27/13 23:34
Benzo(g,h,i)perylene	U		25	31	µg/Kg-dry	1	08/27/13 23:34
Benzo(k)fluoranthene	U		14	31	µg/Kg-dry	1	08/27/13 23:34
Chrysene	U		12	31	µg/Kg-dry	1	08/27/13 23:34
Dibenzo(a,h)anthracene	U		18	31	µg/Kg-dry	1	08/27/13 23:34
Fluoranthene	U		12	31	µg/Kg-dry	1	08/27/13 23:34

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-086
Collection Date: 08/20/13 12:30 PM

Work Order: 1308936
Lab ID: 1308936-19
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene		U	9.1	31	µg/Kg-dry	1	08/27/13 23:34
Indeno(1,2,3-cd)pyrene		U	20	31	µg/Kg-dry	1	08/27/13 23:34
Naphthalene		U	8.9	31	µg/Kg-dry	1	08/27/13 23:34
Phenanthrene		U	31	31	µg/Kg-dry	1	08/27/13 23:34
Pyrene		U	13	31	µg/Kg-dry	1	08/27/13 23:34
Surr: 2-Fluorobiphenyl	82.9			12-100	%REC	1	08/27/13 23:34
Surr: 4-Terphenyl-d14	131			25-137	%REC	1	08/27/13 23:34
Surr: Nitrobenzene-d5	79.1			37-107	%REC	1	08/27/13 23:34
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: BG
BatchID: 50820							
1,1,1-Trichloroethane		U	12	32	µg/Kg-dry	1	08/27/13 17:15
1,1,2,2-Tetrachloroethane		U	14	32	µg/Kg-dry	1	08/27/13 17:15
1,1,2-Trichloroethane		U	11	32	µg/Kg-dry	1	08/27/13 17:15
1,1,2-Trichlorotrifluoroethane		U	12	32	µg/Kg-dry	1	08/27/13 17:15
1,1-Dichloroethane		U	12	32	µg/Kg-dry	1	08/27/13 17:15
1,1-Dichloroethene		U	13	32	µg/Kg-dry	1	08/27/13 17:15
1,2,4-Trichlorobenzene		U	16	32	µg/Kg-dry	1	08/27/13 17:15
1,2-Dibromo-3-chloropropane		U	16	32	µg/Kg-dry	1	08/27/13 17:15
1,2-Dibromoethane		U	13	32	µg/Kg-dry	1	08/27/13 17:15
1,2-Dichlorobenzene		U	13	32	µg/Kg-dry	1	08/27/13 17:15
1,2-Dichloroethane		U	15	32	µg/Kg-dry	1	08/27/13 17:15
1,2-Dichloropropane		U	11	32	µg/Kg-dry	1	08/27/13 17:15
1,3-Dichlorobenzene		U	13	32	µg/Kg-dry	1	08/27/13 17:15
1,4-Dichlorobenzene		U	12	32	µg/Kg-dry	1	08/27/13 17:15
2-Butanone		U	79	210	µg/Kg-dry	1	08/27/13 17:15
2-Hexanone		U	7.8	32	µg/Kg-dry	1	08/27/13 17:15
4-Methyl-2-pentanone		U	11	32	µg/Kg-dry	1	08/27/13 17:15
Acetone	68	J	67	110	µg/Kg-dry	1	08/27/13 17:15
Benzene		U	13	32	µg/Kg-dry	1	08/27/13 17:15
Bromodichloromethane		U	7.1	32	µg/Kg-dry	1	08/27/13 17:15
Bromoform		U	6.3	32	µg/Kg-dry	1	08/27/13 17:15
Bromomethane		U	12	80	µg/Kg-dry	1	08/27/13 17:15
Carbon disulfide		U	16	32	µg/Kg-dry	1	08/27/13 17:15
Carbon tetrachloride		U	9.1	32	µg/Kg-dry	1	08/27/13 17:15
Chlorobenzene		U	13	32	µg/Kg-dry	1	08/27/13 17:15
Chloroethane		U	68	110	µg/Kg-dry	1	08/27/13 17:15
Chloroform		U	13	32	µg/Kg-dry	1	08/27/13 17:15
Chloromethane		U	18	110	µg/Kg-dry	1	08/27/13 17:15
cis-1,2-Dichloroethene		U	13	32	µg/Kg-dry	1	08/27/13 17:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-086
Collection Date: 08/20/13 12:30 PM

Work Order: 1308936
Lab ID: 1308936-19
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		11	32	µg/Kg-dry	1	08/27/13 17:15
Cyclohexane	U		14	32	µg/Kg-dry	1	08/27/13 17:15
Dibromochloromethane	U		5.9	32	µg/Kg-dry	1	08/27/13 17:15
Dichlorodifluoromethane	U		14	32	µg/Kg-dry	1	08/27/13 17:15
Ethylbenzene	U		12	32	µg/Kg-dry	1	08/27/13 17:15
Isopropylbenzene	U		14	32	µg/Kg-dry	1	08/27/13 17:15
Methyl acetate	U		43	210	µg/Kg-dry	1	08/27/13 17:15
Methyl tert-butyl ether	U		13	32	µg/Kg-dry	1	08/27/13 17:15
Methylcyclohexane	U		15	32	µg/Kg-dry	1	08/27/13 17:15
Methylene chloride	55	J	12	58	µg/Kg-dry	1	08/27/13 17:15
Styrene	U		12	32	µg/Kg-dry	1	08/27/13 17:15
Tetrachloroethene	U		14	32	µg/Kg-dry	1	08/27/13 17:15
Toluene	U		12	32	µg/Kg-dry	1	08/27/13 17:15
trans-1,2-Dichloroethene	U		9.8	32	µg/Kg-dry	1	08/27/13 17:15
trans-1,3-Dichloropropene	U		11	32	µg/Kg-dry	1	08/27/13 17:15
Trichloroethene	U		15	32	µg/Kg-dry	1	08/27/13 17:15
Trichlorofluoromethane	U		8.8	32	µg/Kg-dry	1	08/27/13 17:15
Vinyl chloride	U		14	32	µg/Kg-dry	1	08/27/13 17:15
Xylenes, Total	U		38	96	µg/Kg-dry	1	08/27/13 17:15
Surr: 1,2-Dichloroethane-d4	105			70-130	%REC	1	08/27/13 17:15
Surr: 4-Bromofluorobenzene	99.4			70-130	%REC	1	08/27/13 17:15
Surr: Dibromofluoromethane	100			70-130	%REC	1	08/27/13 17:15
Surr: Toluene-d8	102			70-130	%REC	1	08/27/13 17:15
MOISTURE			A2540 G			Analyst: RLF	
BatchID: R125772							
Moisture	5.8		0.025	0.050	% of sample	1	08/27/13 08:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-087
Collection Date: 08/20/13 12:35 PM

Work Order: 1308936
Lab ID: 1308936-20
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471			Prep: SW7471 / 8/28/13	Analyst: LR
BatchID: <u>50875</u>							
Mercury	0.21		0.00079	0.039	mg/Kg-dry	1	08/29/13 12:23
METALS BY ICP-MS			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
BatchID: <u>50801</u>							
Antimony	0.16	J	0.0016	0.40	mg/Kg-dry	1	08/28/13 03:04
Arsenic	2.2		0.055	0.40	mg/Kg-dry	1	08/28/13 03:04
Barium	29		0.011	0.40	mg/Kg-dry	1	08/28/13 03:04
Beryllium	0.21		0.0032	0.16	mg/Kg-dry	1	08/28/13 03:04
Cadmium	0.14	J	0.0016	0.16	mg/Kg-dry	1	08/28/13 03:04
Chromium	5.4		0.066	0.40	mg/Kg-dry	1	08/28/13 03:04
Cobalt	3.4		0.0016	0.40	mg/Kg-dry	1	08/28/13 03:04
Copper	8.8		0.079	0.40	mg/Kg-dry	1	08/28/13 03:04
Iron	7,800		1.3	13	mg/Kg-dry	1	08/28/13 03:04
Lead	6.2		0.0016	0.40	mg/Kg-dry	1	08/28/13 03:04
Molybdenum	0.68		0.018	0.40	mg/Kg-dry	1	08/28/13 03:04
Nickel	12		0.040	0.40	mg/Kg-dry	1	08/28/13 03:04
Selenium	0.52		0.052	0.40	mg/Kg-dry	1	08/28/13 03:04
Silver	0.0069	J	0.0016	0.40	mg/Kg-dry	1	08/28/13 03:04
Thallium	0.067	J	0.0097	0.40	mg/Kg-dry	1	08/28/13 03:04
Vanadium	11		0.024	0.40	mg/Kg-dry	1	08/28/13 03:04
Zinc	14		0.034	0.81	mg/Kg-dry	1	08/28/13 03:04
BatchID: <u>50801</u>							
Manganese	190		0.36	4.0	mg/Kg-dry	10	08/28/13 22:59
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3541 / 8/26/13	Analyst: RM
BatchID: <u>50822</u>							
2-Methylnaphthalene	190		11	86	µg/Kg-dry	1	08/27/13 23:54
Acenaphthene	U		9.8	32	µg/Kg-dry	1	08/27/13 23:54
Acenaphthylene	27	J	10	32	µg/Kg-dry	1	08/27/13 23:54
Anthracene	42		11	32	µg/Kg-dry	1	08/27/13 23:54
Benzo(a)anthracene	47		13	32	µg/Kg-dry	1	08/27/13 23:54
Benzo(a)pyrene	92		17	32	µg/Kg-dry	1	08/27/13 23:54
Benzo(b)fluoranthene	98		17	32	µg/Kg-dry	1	08/27/13 23:54
Benzo(g,h,i)perylene	83		25	32	µg/Kg-dry	1	08/27/13 23:54
Benzo(k)fluoranthene	49		15	32	µg/Kg-dry	1	08/27/13 23:54
Chrysene	63		12	32	µg/Kg-dry	1	08/27/13 23:54
Dibenzo(a,h)anthracene	U		18	32	µg/Kg-dry	1	08/27/13 23:54
Fluoranthene	92		13	32	µg/Kg-dry	1	08/27/13 23:54

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-087
Collection Date: 08/20/13 12:35 PM

Work Order: 1308936
Lab ID: 1308936-20
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		9.4	32	µg/Kg-dry	1	08/27/13 23:54
Indeno(1,2,3-cd)pyrene	63		20	32	µg/Kg-dry	1	08/27/13 23:54
Naphthalene	130		9.1	32	µg/Kg-dry	1	08/27/13 23:54
Phenanthrene	120		32	32	µg/Kg-dry	1	08/27/13 23:54
Pyrene	70		13	32	µg/Kg-dry	1	08/27/13 23:54
Surr: 2-Fluorobiphenyl	79.3			12-100	%REC	1	08/27/13 23:54
Surr: 4-Terphenyl-d14	123			25-137	%REC	1	08/27/13 23:54
Surr: Nitrobenzene-d5	76.6			37-107	%REC	1	08/27/13 23:54
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: BG
BatchID: 50820							
1,1,1-Trichloroethane	U		22	59	µg/Kg-dry	1	08/27/13 17:43
1,1,2,2-Tetrachloroethane	U		26	59	µg/Kg-dry	1	08/27/13 17:43
1,1,2-Trichloroethane	U		21	59	µg/Kg-dry	1	08/27/13 17:43
1,1,2-Trichlorotrifluoroethane	U		22	59	µg/Kg-dry	1	08/27/13 17:43
1,1-Dichloroethane	U		21	59	µg/Kg-dry	1	08/27/13 17:43
1,1-Dichloroethene	U		25	59	µg/Kg-dry	1	08/27/13 17:43
1,2,4-Trichlorobenzene	U		30	59	µg/Kg-dry	1	08/27/13 17:43
1,2-Dibromo-3-chloropropane	U		29	59	µg/Kg-dry	1	08/27/13 17:43
1,2-Dibromoethane	U		23	59	µg/Kg-dry	1	08/27/13 17:43
1,2-Dichlorobenzene	U		23	59	µg/Kg-dry	1	08/27/13 17:43
1,2-Dichloroethane	U		28	59	µg/Kg-dry	1	08/27/13 17:43
1,2-Dichloropropane	U		19	59	µg/Kg-dry	1	08/27/13 17:43
1,3-Dichlorobenzene	U		23	59	µg/Kg-dry	1	08/27/13 17:43
1,4-Dichlorobenzene	U		22	59	µg/Kg-dry	1	08/27/13 17:43
2-Butanone	U		140	390	µg/Kg-dry	1	08/27/13 17:43
2-Hexanone	U		14	59	µg/Kg-dry	1	08/27/13 17:43
4-Methyl-2-pentanone	U		20	59	µg/Kg-dry	1	08/27/13 17:43
Acetone	U		120	200	µg/Kg-dry	1	08/27/13 17:43
Benzene	U		23	59	µg/Kg-dry	1	08/27/13 17:43
Bromodichloromethane	U		13	59	µg/Kg-dry	1	08/27/13 17:43
Bromoform	U		12	59	µg/Kg-dry	1	08/27/13 17:43
Bromomethane	U		22	150	µg/Kg-dry	1	08/27/13 17:43
Carbon disulfide	U		29	59	µg/Kg-dry	1	08/27/13 17:43
Carbon tetrachloride	U		17	59	µg/Kg-dry	1	08/27/13 17:43
Chlorobenzene	U		24	59	µg/Kg-dry	1	08/27/13 17:43
Chloroethane	U		120	200	µg/Kg-dry	1	08/27/13 17:43
Chloroform	U		24	59	µg/Kg-dry	1	08/27/13 17:43
Chloromethane	U		33	200	µg/Kg-dry	1	08/27/13 17:43
cis-1,2-Dichloroethene	U		24	59	µg/Kg-dry	1	08/27/13 17:43

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-087
Collection Date: 08/20/13 12:35 PM

Work Order: 1308936
Lab ID: 1308936-20
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		20	59	µg/Kg-dry	1	08/27/13 17:43
Cyclohexane	U		26	59	µg/Kg-dry	1	08/27/13 17:43
Dibromochloromethane	U		11	59	µg/Kg-dry	1	08/27/13 17:43
Dichlorodifluoromethane	U		26	59	µg/Kg-dry	1	08/27/13 17:43
Ethylbenzene	U		22	59	µg/Kg-dry	1	08/27/13 17:43
Isopropylbenzene	U		25	59	µg/Kg-dry	1	08/27/13 17:43
Methyl acetate	U		79	390	µg/Kg-dry	1	08/27/13 17:43
Methyl tert-butyl ether	U		25	59	µg/Kg-dry	1	08/27/13 17:43
Methylcyclohexane	120		27	59	µg/Kg-dry	1	08/27/13 17:43
Methylene chloride	89	J	23	98	µg/Kg-dry	1	08/27/13 17:43
Styrene	U		22	59	µg/Kg-dry	1	08/27/13 17:43
Tetrachloroethene	U		26	59	µg/Kg-dry	1	08/27/13 17:43
Toluene	71		22	59	µg/Kg-dry	1	08/27/13 17:43
trans-1,2-Dichloroethene	U		18	59	µg/Kg-dry	1	08/27/13 17:43
trans-1,3-Dichloropropene	U		20	59	µg/Kg-dry	1	08/27/13 17:43
Trichloroethene	U		27	59	µg/Kg-dry	1	08/27/13 17:43
Trichlorofluoromethane	U		16	59	µg/Kg-dry	1	08/27/13 17:43
Vinyl chloride	U		26	59	µg/Kg-dry	1	08/27/13 17:43
Xylenes, Total	130	J	69	180	µg/Kg-dry	1	08/27/13 17:43
Surr: 1,2-Dichloroethane-d4	107			70-130	%REC	1	08/27/13 17:43
Surr: 4-Bromofluorobenzene	98.4			70-130	%REC	1	08/27/13 17:43
Surr: Dibromofluoromethane	99.7			70-130	%REC	1	08/27/13 17:43
Surr: Toluene-d8	102			70-130	%REC	1	08/27/13 17:43
MOISTURE			A2540 G				Analyst: RLF
BatchID: R125772							
Moisture	7.0		0.025	0.050	% of sample	1	08/27/13 08:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-088
Collection Date: 08/20/13 12:40 PM

Work Order: 1308936
Lab ID: 1308936-21
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/28/13	Analyst: LR
<u>BatchID: 50875</u>							
Mercury	0.012	J	0.00078	0.039	mg/Kg-dry	1	08/29/13 12:25
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
<u>BatchID: 50802</u>							
Antimony	0.11	J	0.0016	0.39	mg/Kg-dry	1	08/27/13 21:30
Arsenic	1.4		0.054	0.39	mg/Kg-dry	1	08/27/13 21:30
Barium	37		0.011	0.39	mg/Kg-dry	1	08/27/13 21:30
Beryllium	0.15	J	0.0032	0.16	mg/Kg-dry	1	08/27/13 21:30
Cadmium	0.073	J	0.0016	0.16	mg/Kg-dry	1	08/27/13 21:30
Chromium	5.7		0.065	0.39	mg/Kg-dry	1	08/27/13 21:30
Cobalt	2.1		0.0016	0.39	mg/Kg-dry	1	08/27/13 21:30
Copper	4.2		0.077	0.39	mg/Kg-dry	1	08/27/13 21:30
Iron	6,500		1.3	6.3	mg/Kg-dry	1	08/27/13 21:30
Lead	4.6		0.0016	0.39	mg/Kg-dry	1	08/27/13 21:30
Molybdenum	0.35	J	0.017	0.39	mg/Kg-dry	1	08/27/13 21:30
Nickel	5.3		0.039	0.39	mg/Kg-dry	1	08/27/13 21:30
Selenium	0.37	J	0.050	0.39	mg/Kg-dry	1	08/27/13 21:30
Silver	0.0060	J	0.0016	0.39	mg/Kg-dry	1	08/27/13 21:30
Thallium	0.057	J	0.0095	0.39	mg/Kg-dry	1	08/27/13 21:30
Vanadium	11		0.024	0.39	mg/Kg-dry	1	08/27/13 21:30
Zinc	17		0.033	0.79	mg/Kg-dry	1	08/27/13 21:30
<u>BatchID: 50802</u>							
Manganese	200		0.35	3.9	mg/Kg-dry	10	08/28/13 18:54
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/26/13	Analyst: RM
<u>BatchID: 50822</u>							
2-Methylnaphthalene	91		10	85	µg/Kg-dry	1	08/28/13 12:13
Acenaphthene	U		9.7	32	µg/Kg-dry	1	08/28/13 12:13
Acenaphthylene	U		10	32	µg/Kg-dry	1	08/28/13 12:13
Anthracene	34		11	32	µg/Kg-dry	1	08/28/13 12:13
Benzo(a)anthracene	27	J	13	32	µg/Kg-dry	1	08/28/13 12:13
Benzo(a)pyrene	79		16	32	µg/Kg-dry	1	08/28/13 12:13
Benzo(b)fluoranthene	77		17	32	µg/Kg-dry	1	08/28/13 12:13
Benzo(g,h,i)perylene	72		25	32	µg/Kg-dry	1	08/28/13 12:13
Benzo(k)fluoranthene	41		14	32	µg/Kg-dry	1	08/28/13 12:13
Chrysene	37		12	32	µg/Kg-dry	1	08/28/13 12:13
Dibenzo(a,h)anthracene	U		18	32	µg/Kg-dry	1	08/28/13 12:13
Fluoranthene	66		13	32	µg/Kg-dry	1	08/28/13 12:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-088
Collection Date: 08/20/13 12:40 PM

Work Order: 1308936
Lab ID: 1308936-21
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		9.3	32	µg/Kg-dry	1	08/28/13 12:13
Indeno(1,2,3-cd)pyrene	49		20	32	µg/Kg-dry	1	08/28/13 12:13
Naphthalene	58		9.1	32	µg/Kg-dry	1	08/28/13 12:13
Phenanthrene	57		32	32	µg/Kg-dry	1	08/28/13 12:13
Pyrene	41		13	32	µg/Kg-dry	1	08/28/13 12:13
Surr: 2-Fluorobiphenyl	78.2			12-100	%REC	1	08/28/13 12:13
Surr: 4-Terphenyl-d14	133			25-137	%REC	1	08/28/13 12:13
Surr: Nitrobenzene-d5	75.0			37-107	%REC	1	08/28/13 12:13
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: BG
BatchID: 50821							
1,1,1-Trichloroethane	U		13	34	µg/Kg-dry	1	08/27/13 18:10
1,1,2,2-Tetrachloroethane	U		15	34	µg/Kg-dry	1	08/27/13 18:10
1,1,2-Trichloroethane	U		12	34	µg/Kg-dry	1	08/27/13 18:10
1,1,2-Trichlorotrifluoroethane	U		12	34	µg/Kg-dry	1	08/27/13 18:10
1,1-Dichloroethane	U		12	34	µg/Kg-dry	1	08/27/13 18:10
1,1-Dichloroethene	U		14	34	µg/Kg-dry	1	08/27/13 18:10
1,2,4-Trichlorobenzene	U		17	34	µg/Kg-dry	1	08/27/13 18:10
1,2-Dibromo-3-chloropropane	U		16	34	µg/Kg-dry	1	08/27/13 18:10
1,2-Dibromoethane	U		13	34	µg/Kg-dry	1	08/27/13 18:10
1,2-Dichlorobenzene	U		14	34	µg/Kg-dry	1	08/27/13 18:10
1,2-Dichloroethane	U		16	34	µg/Kg-dry	1	08/27/13 18:10
1,2-Dichloropropane	U		11	34	µg/Kg-dry	1	08/27/13 18:10
1,3-Dichlorobenzene	U		14	34	µg/Kg-dry	1	08/27/13 18:10
1,4-Dichlorobenzene	U		13	34	µg/Kg-dry	1	08/27/13 18:10
2-Butanone	U		84	230	µg/Kg-dry	1	08/27/13 18:10
2-Hexanone	U		8.3	34	µg/Kg-dry	1	08/27/13 18:10
4-Methyl-2-pentanone	U		11	34	µg/Kg-dry	1	08/27/13 18:10
Acetone	U		71	110	µg/Kg-dry	1	08/27/13 18:10
Benzene	15	J	14	34	µg/Kg-dry	1	08/27/13 18:10
Bromodichloromethane	U		7.6	34	µg/Kg-dry	1	08/27/13 18:10
Bromoform	U		6.7	34	µg/Kg-dry	1	08/27/13 18:10
Bromomethane	U		13	84	µg/Kg-dry	1	08/27/13 18:10
Carbon disulfide	U		17	34	µg/Kg-dry	1	08/27/13 18:10
Carbon tetrachloride	U		9.6	34	µg/Kg-dry	1	08/27/13 18:10
Chlorobenzene	U		14	34	µg/Kg-dry	1	08/27/13 18:10
Chloroethane	U		72	110	µg/Kg-dry	1	08/27/13 18:10
Chloroform	U		14	34	µg/Kg-dry	1	08/27/13 18:10
Chloromethane	U		19	110	µg/Kg-dry	1	08/27/13 18:10
cis-1,2-Dichloroethene	U		14	34	µg/Kg-dry	1	08/27/13 18:10

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-088
Collection Date: 08/20/13 12:40 PM

Work Order: 1308936
Lab ID: 1308936-21
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		12	34	µg/Kg-dry	1	08/27/13 18:10
Cyclohexane	38		15	34	µg/Kg-dry	1	08/27/13 18:10
Dibromochloromethane	U		6.2	34	µg/Kg-dry	1	08/27/13 18:10
Dichlorodifluoromethane	U		15	34	µg/Kg-dry	1	08/27/13 18:10
Ethylbenzene	20	J	13	34	µg/Kg-dry	1	08/27/13 18:10
Isopropylbenzene	31	J	15	34	µg/Kg-dry	1	08/27/13 18:10
Methyl acetate	U		45	230	µg/Kg-dry	1	08/27/13 18:10
Methyl tert-butyl ether	U		14	34	µg/Kg-dry	1	08/27/13 18:10
Methylcyclohexane	140		16	34	µg/Kg-dry	1	08/27/13 18:10
Methylene chloride	70	J	13	73	µg/Kg-dry	1	08/27/13 18:10
Styrene	U		13	34	µg/Kg-dry	1	08/27/13 18:10
Tetrachloroethene	U		15	34	µg/Kg-dry	1	08/27/13 18:10
Toluene	52		13	34	µg/Kg-dry	1	08/27/13 18:10
trans-1,2-Dichloroethene	U		10	34	µg/Kg-dry	1	08/27/13 18:10
trans-1,3-Dichloropropene	U		11	34	µg/Kg-dry	1	08/27/13 18:10
Trichloroethene	100		16	34	µg/Kg-dry	1	08/27/13 18:10
Trichlorofluoromethane	U		9.3	34	µg/Kg-dry	1	08/27/13 18:10
Vinyl chloride	U		15	34	µg/Kg-dry	1	08/27/13 18:10
Xylenes, Total	160		40	100	µg/Kg-dry	1	08/27/13 18:10
Surr: 1,2-Dichloroethane-d4	102			70-130	%REC	1	08/27/13 18:10
Surr: 4-Bromofluorobenzene	100			70-130	%REC	1	08/27/13 18:10
Surr: Dibromofluoromethane	96.2			70-130	%REC	1	08/27/13 18:10
Surr: Toluene-d8	103			70-130	%REC	1	08/27/13 18:10
MOISTURE			A2540 G			Analyst: RLF	
<u>BatchID: R125772</u>							
Moisture	6.1		0.025	0.050	% of sample	1	08/27/13 08:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-089
Collection Date: 08/20/13 12:45 PM

Work Order: 1308936
Lab ID: 1308936-22
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/28/13	Analyst: LR
BatchID: <u>50875</u>							
Mercury	0.017	J	0.00083	0.042	mg/Kg-dry	1	08/29/13 12:27
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
BatchID: <u>50802</u>							
Antimony	0.062	J	0.0015	0.38	mg/Kg-dry	1	08/27/13 21:36
Arsenic	1.2		0.052	0.38	mg/Kg-dry	1	08/27/13 21:36
Barium	19		0.011	0.38	mg/Kg-dry	1	08/27/13 21:36
Beryllium	0.11	J	0.0030	0.15	mg/Kg-dry	1	08/27/13 21:36
Cadmium	0.043	J	0.0015	0.15	mg/Kg-dry	1	08/27/13 21:36
Chromium	5.6		0.062	0.38	mg/Kg-dry	1	08/27/13 21:36
Cobalt	2.3		0.0015	0.38	mg/Kg-dry	1	08/27/13 21:36
Copper	2.5		0.075	0.38	mg/Kg-dry	1	08/27/13 21:36
Iron	5,000		1.3	6.1	mg/Kg-dry	1	08/27/13 21:36
Lead	3.8		0.0015	0.38	mg/Kg-dry	1	08/27/13 21:36
Manganese	89		0.033	0.38	mg/Kg-dry	1	08/27/13 21:36
Molybdenum	0.22	J	0.017	0.38	mg/Kg-dry	1	08/27/13 21:36
Nickel	4.9		0.038	0.38	mg/Kg-dry	1	08/27/13 21:36
Selenium	0.39		0.049	0.38	mg/Kg-dry	1	08/27/13 21:36
Silver	0.0068	J	0.0015	0.38	mg/Kg-dry	1	08/27/13 21:36
Thallium	0.044	J	0.0091	0.38	mg/Kg-dry	1	08/27/13 21:36
Vanadium	9.5		0.023	0.38	mg/Kg-dry	1	08/27/13 21:36
Zinc	10		0.032	0.76	mg/Kg-dry	1	08/27/13 21:36
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/26/13	Analyst: RM
BatchID: <u>50822</u>							
2-Methylnaphthalene	U		11	88	µg/Kg-dry	1	08/28/13 12:33
Acenaphthene	U		10	33	µg/Kg-dry	1	08/28/13 12:33
Acenaphthylene	U		10	33	µg/Kg-dry	1	08/28/13 12:33
Anthracene	U		11	33	µg/Kg-dry	1	08/28/13 12:33
Benzo(a)anthracene	U		13	33	µg/Kg-dry	1	08/28/13 12:33
Benzo(a)pyrene	U		17	33	µg/Kg-dry	1	08/28/13 12:33
Benzo(b)fluoranthene	U		18	33	µg/Kg-dry	1	08/28/13 12:33
Benzo(g,h,i)perylene	U		26	33	µg/Kg-dry	1	08/28/13 12:33
Benzo(k)fluoranthene	U		15	33	µg/Kg-dry	1	08/28/13 12:33
Chrysene	U		12	33	µg/Kg-dry	1	08/28/13 12:33
Dibenzo(a,h)anthracene	U		19	33	µg/Kg-dry	1	08/28/13 12:33
Fluoranthene	U		13	33	µg/Kg-dry	1	08/28/13 12:33
Fluorene	U		9.6	33	µg/Kg-dry	1	08/28/13 12:33

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-089
Collection Date: 08/20/13 12:45 PM

Work Order: 1308936
Lab ID: 1308936-22
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	U		21	33	µg/Kg-dry	1	08/28/13 12:33
Naphthalene	U		9.4	33	µg/Kg-dry	1	08/28/13 12:33
Phenanthrene	U		33	33	µg/Kg-dry	1	08/28/13 12:33
Pyrene	U		14	33	µg/Kg-dry	1	08/28/13 12:33
Surr: 2-Fluorobiphenyl	78.4			12-100	%REC	1	08/28/13 12:33
Surr: 4-Terphenyl-d14	126			25-137	%REC	1	08/28/13 12:33
Surr: Nitrobenzene-d5	73.5			37-107	%REC	1	08/28/13 12:33
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: BG
BatchID: 50821							
1,1,1-Trichloroethane	U		15	39	µg/Kg-dry	1	08/27/13 18:37
1,1,2,2-Tetrachloroethane	U		17	39	µg/Kg-dry	1	08/27/13 18:37
1,1,2-Trichloroethane	U		14	39	µg/Kg-dry	1	08/27/13 18:37
1,1,2-Trichlorotrifluoroethane	U		14	39	µg/Kg-dry	1	08/27/13 18:37
1,1-Dichloroethane	U		14	39	µg/Kg-dry	1	08/27/13 18:37
1,1-Dichloroethene	U		16	39	µg/Kg-dry	1	08/27/13 18:37
1,2,4-Trichlorobenzene	U		20	39	µg/Kg-dry	1	08/27/13 18:37
1,2-Dibromo-3-chloropropane	U		19	39	µg/Kg-dry	1	08/27/13 18:37
1,2-Dibromoethane	U		15	39	µg/Kg-dry	1	08/27/13 18:37
1,2-Dichlorobenzene	U		16	39	µg/Kg-dry	1	08/27/13 18:37
1,2-Dichloroethane	U		19	39	µg/Kg-dry	1	08/27/13 18:37
1,2-Dichloropropane	U		13	39	µg/Kg-dry	1	08/27/13 18:37
1,3-Dichlorobenzene	U		16	39	µg/Kg-dry	1	08/27/13 18:37
1,4-Dichlorobenzene	U		15	39	µg/Kg-dry	1	08/27/13 18:37
2-Butanone	U		97	260	µg/Kg-dry	1	08/27/13 18:37
2-Hexanone	U		9.6	39	µg/Kg-dry	1	08/27/13 18:37
4-Methyl-2-pentanone	U		13	39	µg/Kg-dry	1	08/27/13 18:37
Acetone	120	J	83	130	µg/Kg-dry	1	08/27/13 18:37
Benzene	U		16	39	µg/Kg-dry	1	08/27/13 18:37
Bromodichloromethane	U		8.8	39	µg/Kg-dry	1	08/27/13 18:37
Bromoform	U		7.7	39	µg/Kg-dry	1	08/27/13 18:37
Bromomethane	U		15	98	µg/Kg-dry	1	08/27/13 18:37
Carbon disulfide	U		19	39	µg/Kg-dry	1	08/27/13 18:37
Carbon tetrachloride	U		11	39	µg/Kg-dry	1	08/27/13 18:37
Chlorobenzene	U		16	39	µg/Kg-dry	1	08/27/13 18:37
Chloroethane	U		83	130	µg/Kg-dry	1	08/27/13 18:37
Chloroform	U		16	39	µg/Kg-dry	1	08/27/13 18:37
Chloromethane	U		22	130	µg/Kg-dry	1	08/27/13 18:37
cis-1,2-Dichloroethene	U		16	39	µg/Kg-dry	1	08/27/13 18:37
cis-1,3-Dichloropropene	U		13	39	µg/Kg-dry	1	08/27/13 18:37

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-089
Collection Date: 08/20/13 12:45 PM

Work Order: 1308936
Lab ID: 1308936-22
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		18	39	µg/Kg-dry	1	08/27/13 18:37
Dibromochloromethane	U		7.2	39	µg/Kg-dry	1	08/27/13 18:37
Dichlorodifluoromethane	U		18	39	µg/Kg-dry	1	08/27/13 18:37
Ethylbenzene	U		15	39	µg/Kg-dry	1	08/27/13 18:37
Isopropylbenzene	U		17	39	µg/Kg-dry	1	08/27/13 18:37
Methyl acetate	U		52	260	µg/Kg-dry	1	08/27/13 18:37
Methyl tert-butyl ether	U		17	39	µg/Kg-dry	1	08/27/13 18:37
Methylcyclohexane	U		18	39	µg/Kg-dry	1	08/27/13 18:37
Methylene chloride	100	J	15	110	µg/Kg-dry	1	08/27/13 18:37
Styrene	U		15	39	µg/Kg-dry	1	08/27/13 18:37
Tetrachloroethene	U		17	39	µg/Kg-dry	1	08/27/13 18:37
Toluene	U		15	39	µg/Kg-dry	1	08/27/13 18:37
trans-1,2-Dichloroethene	U		12	39	µg/Kg-dry	1	08/27/13 18:37
trans-1,3-Dichloropropene	U		13	39	µg/Kg-dry	1	08/27/13 18:37
Trichloroethene	U		18	39	µg/Kg-dry	1	08/27/13 18:37
Trichlorofluoromethane	U		11	39	µg/Kg-dry	1	08/27/13 18:37
Vinyl chloride	U		18	39	µg/Kg-dry	1	08/27/13 18:37
Xylenes, Total	U		46	120	µg/Kg-dry	1	08/27/13 18:37
Surr: 1,2-Dichloroethane-d4	102			70-130	%REC	1	08/27/13 18:37
Surr: 4-Bromofluorobenzene	99.9			70-130	%REC	1	08/27/13 18:37
Surr: Dibromofluoromethane	99.6			70-130	%REC	1	08/27/13 18:37
Surr: Toluene-d8	100			70-130	%REC	1	08/27/13 18:37
MOISTURE			A2540 G				Analyst: RLF
BatchID: R125772							
Moisture	10		0.025	0.050	% of sample	1	08/27/13 08:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-089 (246-13)
Collection Date: 08/20/13 01:00 PM

Work Order: 1308936
Lab ID: 1308936-23
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/28/13	Analyst: LR
<u>BatchID: 50875</u>							
Mercury	0.010	J	0.00081	0.040	mg/Kg-dry	1	08/29/13 12:29
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
<u>BatchID: 50802</u>							
Antimony	0.37	J	0.0015	0.38	mg/Kg-dry	1	08/27/13 21:42
Arsenic	1.8		0.052	0.38	mg/Kg-dry	1	08/27/13 21:42
Barium	30		0.011	0.38	mg/Kg-dry	1	08/27/13 21:42
Beryllium	0.10	J	0.0031	0.15	mg/Kg-dry	1	08/27/13 21:42
Cadmium	0.084	J	0.0015	0.15	mg/Kg-dry	1	08/27/13 21:42
Chromium	5.8		0.063	0.38	mg/Kg-dry	1	08/27/13 21:42
Cobalt	1.8		0.0015	0.38	mg/Kg-dry	1	08/27/13 21:42
Copper	7.0		0.075	0.38	mg/Kg-dry	1	08/27/13 21:42
Iron	4,700		1.3	6.1	mg/Kg-dry	1	08/27/13 21:42
Lead	21		0.0015	0.38	mg/Kg-dry	1	08/27/13 21:42
Manganese	120		0.034	0.38	mg/Kg-dry	1	08/27/13 21:42
Molybdenum	0.74		0.017	0.38	mg/Kg-dry	1	08/27/13 21:42
Nickel	5.2		0.038	0.38	mg/Kg-dry	1	08/27/13 21:42
Selenium	0.25	J	0.049	0.38	mg/Kg-dry	1	08/27/13 21:42
Silver	0.027	J	0.0015	0.38	mg/Kg-dry	1	08/27/13 21:42
Thallium	0.042	J	0.0092	0.38	mg/Kg-dry	1	08/27/13 21:42
Vanadium	8.0		0.023	0.38	mg/Kg-dry	1	08/27/13 21:42
Zinc	17		0.032	0.77	mg/Kg-dry	1	08/27/13 21:42
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/26/13	Analyst: HL
<u>BatchID: 50822</u>							
2-Methylnaphthalene	290	J	100	830	µg/Kg-dry	10	08/27/13 20:17
Acenaphthene	770		94	310	µg/Kg-dry	10	08/27/13 20:17
Acenaphthylene	U		98	310	µg/Kg-dry	10	08/27/13 20:17
Anthracene	620		110	310	µg/Kg-dry	10	08/27/13 20:17
Benzo(a)anthracene	980		130	310	µg/Kg-dry	10	08/27/13 20:17
Benzo(a)pyrene	780		160	310	µg/Kg-dry	10	08/27/13 20:17
Benzo(b)fluoranthene	1,200		170	310	µg/Kg-dry	10	08/27/13 20:17
Benzo(g,h,i)perylene	390		240	310	µg/Kg-dry	10	08/27/13 20:17
Benzo(k)fluoranthene	430		140	310	µg/Kg-dry	10	08/27/13 20:17
Chrysene	960		120	310	µg/Kg-dry	10	08/27/13 20:17
Dibenzo(a,h)anthracene	U		180	310	µg/Kg-dry	10	08/27/13 20:17
Fluoranthene	2,300		120	310	µg/Kg-dry	10	08/27/13 20:17
Fluorene	460		90	310	µg/Kg-dry	10	08/27/13 20:17

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-089 (246-13)
Collection Date: 08/20/13 01:00 PM

Work Order: 1308936
Lab ID: 1308936-23
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	390		200	310	µg/Kg-dry	10	08/27/13 20:17
Naphthalene	U		88	310	µg/Kg-dry	10	08/27/13 20:17
Phenanthrene	3,600		310	310	µg/Kg-dry	10	08/27/13 20:17
Pyrene	1,800		130	310	µg/Kg-dry	10	08/27/13 20:17
Surr: 2-Fluorobiphenyl	73.4			12-100	%REC	10	08/27/13 20:17
Surr: 4-Terphenyl-d14	84.4			25-137	%REC	10	08/27/13 20:17
Surr: Nitrobenzene-d5	54.8			37-107	%REC	10	08/27/13 20:17
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: BG
BatchID: 50821							
1,1,1-Trichloroethane	U		13	34	µg/Kg-dry	1	08/27/13 19:04
1,1,2,2-Tetrachloroethane	U		15	34	µg/Kg-dry	1	08/27/13 19:04
1,1,2-Trichloroethane	U		12	34	µg/Kg-dry	1	08/27/13 19:04
1,1,2-Trichlorotrifluoroethane	U		13	34	µg/Kg-dry	1	08/27/13 19:04
1,1-Dichloroethane	U		13	34	µg/Kg-dry	1	08/27/13 19:04
1,1-Dichloroethene	U		14	34	µg/Kg-dry	1	08/27/13 19:04
1,2,4-Trichlorobenzene	U		18	34	µg/Kg-dry	1	08/27/13 19:04
1,2-Dibromo-3-chloropropane	U		17	34	µg/Kg-dry	1	08/27/13 19:04
1,2-Dibromoethane	U		14	34	µg/Kg-dry	1	08/27/13 19:04
1,2-Dichlorobenzene	U		14	34	µg/Kg-dry	1	08/27/13 19:04
1,2-Dichloroethane	U		16	34	µg/Kg-dry	1	08/27/13 19:04
1,2-Dichloropropane	U		11	34	µg/Kg-dry	1	08/27/13 19:04
1,3-Dichlorobenzene	U		14	34	µg/Kg-dry	1	08/27/13 19:04
1,4-Dichlorobenzene	U		13	34	µg/Kg-dry	1	08/27/13 19:04
2-Butanone	U		85	230	µg/Kg-dry	1	08/27/13 19:04
2-Hexanone	U		8.4	34	µg/Kg-dry	1	08/27/13 19:04
4-Methyl-2-pentanone	U		12	34	µg/Kg-dry	1	08/27/13 19:04
Acetone	82	J	73	110	µg/Kg-dry	1	08/27/13 19:04
Benzene	U		14	34	µg/Kg-dry	1	08/27/13 19:04
Bromodichloromethane	U		7.7	34	µg/Kg-dry	1	08/27/13 19:04
Bromoform	U		6.8	34	µg/Kg-dry	1	08/27/13 19:04
Bromomethane	U		13	86	µg/Kg-dry	1	08/27/13 19:04
Carbon disulfide	U		17	34	µg/Kg-dry	1	08/27/13 19:04
Carbon tetrachloride	U		9.8	34	µg/Kg-dry	1	08/27/13 19:04
Chlorobenzene	U		14	34	µg/Kg-dry	1	08/27/13 19:04
Chloroethane	U		73	110	µg/Kg-dry	1	08/27/13 19:04
Chloroform	U		14	34	µg/Kg-dry	1	08/27/13 19:04
Chloromethane	U		19	110	µg/Kg-dry	1	08/27/13 19:04
cis-1,2-Dichloroethene	U		14	34	µg/Kg-dry	1	08/27/13 19:04
cis-1,3-Dichloropropene	U		12	34	µg/Kg-dry	1	08/27/13 19:04

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-089 (246-13)
Collection Date: 08/20/13 01:00 PM

Work Order: 1308936
Lab ID: 1308936-23
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		15	34	µg/Kg-dry	1	08/27/13 19:04
Dibromochloromethane	U		6.4	34	µg/Kg-dry	1	08/27/13 19:04
Dichlorodifluoromethane	U		16	34	µg/Kg-dry	1	08/27/13 19:04
Ethylbenzene	U		13	34	µg/Kg-dry	1	08/27/13 19:04
Isopropylbenzene	U		15	34	µg/Kg-dry	1	08/27/13 19:04
Methyl acetate	570		46	230	µg/Kg-dry	1	08/27/13 19:04
Methyl tert-butyl ether	U		15	34	µg/Kg-dry	1	08/27/13 19:04
Methylcyclohexane	26	J	16	34	µg/Kg-dry	1	08/27/13 19:04
Methylene chloride	110	J	13	110	µg/Kg-dry	1	08/27/13 19:04
Styrene	U		13	34	µg/Kg-dry	1	08/27/13 19:04
Tetrachloroethene	U		15	34	µg/Kg-dry	1	08/27/13 19:04
Toluene	U		13	34	µg/Kg-dry	1	08/27/13 19:04
trans-1,2-Dichloroethene	U		11	34	µg/Kg-dry	1	08/27/13 19:04
trans-1,3-Dichloropropene	U		12	34	µg/Kg-dry	1	08/27/13 19:04
Trichloroethene	U		16	34	µg/Kg-dry	1	08/27/13 19:04
Trichlorofluoromethane	U		9.5	34	µg/Kg-dry	1	08/27/13 19:04
Vinyl chloride	U		16	34	µg/Kg-dry	1	08/27/13 19:04
Xylenes, Total	57	J	41	100	µg/Kg-dry	1	08/27/13 19:04
Surr: 1,2-Dichloroethane-d4	104			70-130	%REC	1	08/27/13 19:04
Surr: 4-Bromofluorobenzene	101			70-130	%REC	1	08/27/13 19:04
Surr: Dibromofluoromethane	99.6			70-130	%REC	1	08/27/13 19:04
Surr: Toluene-d8	101			70-130	%REC	1	08/27/13 19:04
MOISTURE			A2540 G				Analyst: RLF
BatchID: R125772							
Moisture	5.2		0.025	0.050	% of sample	1	08/27/13 08:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-090
Collection Date: 08/20/13 01:05 PM

Work Order: 1308936
Lab ID: 1308936-24
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471			Prep: SW7471 / 8/28/13	Analyst: LR
BatchID: <u>50875</u>							
Mercury	0.0064	J	0.00072	0.036	mg/Kg-dry	1	08/29/13 12:32
METALS BY ICP-MS			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
BatchID: <u>50802</u>							
Antimony	0.058	J	0.0016	0.39	mg/Kg-dry	1	08/27/13 21:48
Arsenic	0.96		0.054	0.39	mg/Kg-dry	1	08/27/13 21:48
Barium	14		0.011	0.39	mg/Kg-dry	1	08/27/13 21:48
Beryllium	0.075	J	0.0031	0.16	mg/Kg-dry	1	08/27/13 21:48
Cadmium	0.028	J	0.0016	0.16	mg/Kg-dry	1	08/27/13 21:48
Chromium	3.7		0.065	0.39	mg/Kg-dry	1	08/27/13 21:48
Cobalt	1.3		0.0016	0.39	mg/Kg-dry	1	08/27/13 21:48
Copper	2.6		0.077	0.39	mg/Kg-dry	1	08/27/13 21:48
Iron	3,700		1.3	6.3	mg/Kg-dry	1	08/27/13 21:48
Lead	2.3		0.0016	0.39	mg/Kg-dry	1	08/27/13 21:48
Manganese	81		0.035	0.39	mg/Kg-dry	1	08/27/13 21:48
Molybdenum	0.22	J	0.017	0.39	mg/Kg-dry	1	08/27/13 21:48
Nickel	3.2		0.039	0.39	mg/Kg-dry	1	08/27/13 21:48
Selenium	0.21	J	0.050	0.39	mg/Kg-dry	1	08/27/13 21:48
Silver	0.0023	J	0.0016	0.39	mg/Kg-dry	1	08/27/13 21:48
Thallium	0.022	J	0.0094	0.39	mg/Kg-dry	1	08/27/13 21:48
Vanadium	7.4		0.024	0.39	mg/Kg-dry	1	08/27/13 21:48
Zinc	7.9		0.033	0.79	mg/Kg-dry	1	08/27/13 21:48
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3541 / 8/26/13	Analyst: RM
BatchID: <u>50822</u>							
2-Methylnaphthalene	U		10	82	µg/Kg-dry	1	08/28/13 12:52
Acenaphthene	U		9.4	31	µg/Kg-dry	1	08/28/13 12:52
Acenaphthylene	U		9.7	31	µg/Kg-dry	1	08/28/13 12:52
Anthracene	30	J	10	31	µg/Kg-dry	1	08/28/13 12:52
Benzo(a)anthracene	21	J	13	31	µg/Kg-dry	1	08/28/13 12:52
Benzo(a)pyrene	72		16	31	µg/Kg-dry	1	08/28/13 12:52
Benzo(b)fluoranthene	62		17	31	µg/Kg-dry	1	08/28/13 12:52
Benzo(g,h,i)perylene	62		24	31	µg/Kg-dry	1	08/28/13 12:52
Benzo(k)fluoranthene	38		14	31	µg/Kg-dry	1	08/28/13 12:52
Chrysene	18	J	12	31	µg/Kg-dry	1	08/28/13 12:52
Dibenzo(a,h)anthracene	U		18	31	µg/Kg-dry	1	08/28/13 12:52
Fluoranthene	65		12	31	µg/Kg-dry	1	08/28/13 12:52
Fluorene	U		9.0	31	µg/Kg-dry	1	08/28/13 12:52

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-090
Collection Date: 08/20/13 01:05 PM

Work Order: 1308936
Lab ID: 1308936-24
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	36		20	31	µg/Kg-dry	1	08/28/13 12:52
Naphthalene	U		8.8	31	µg/Kg-dry	1	08/28/13 12:52
Phenanthrene	U		31	31	µg/Kg-dry	1	08/28/13 12:52
Pyrene	40		13	31	µg/Kg-dry	1	08/28/13 12:52
Surr: 2-Fluorobiphenyl	80.2			12-100	%REC	1	08/28/13 12:52
Surr: 4-Terphenyl-d14	131			25-137	%REC	1	08/28/13 12:52
Surr: Nitrobenzene-d5	74.3			37-107	%REC	1	08/28/13 12:52
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: BG
BatchID: 50821							
1,1,1-Trichloroethane	U		14	36	µg/Kg-dry	1	08/27/13 19:31
1,1,2,2-Tetrachloroethane	U		16	36	µg/Kg-dry	1	08/27/13 19:31
1,1,2-Trichloroethane	U		13	36	µg/Kg-dry	1	08/27/13 19:31
1,1,2-Trichlorotrifluoroethane	U		13	36	µg/Kg-dry	1	08/27/13 19:31
1,1-Dichloroethane	U		13	36	µg/Kg-dry	1	08/27/13 19:31
1,1-Dichloroethene	U		15	36	µg/Kg-dry	1	08/27/13 19:31
1,2,4-Trichlorobenzene	U		18	36	µg/Kg-dry	1	08/27/13 19:31
1,2-Dibromo-3-chloropropane	U		17	36	µg/Kg-dry	1	08/27/13 19:31
1,2-Dibromoethane	U		14	36	µg/Kg-dry	1	08/27/13 19:31
1,2-Dichlorobenzene	U		14	36	µg/Kg-dry	1	08/27/13 19:31
1,2-Dichloroethane	U		17	36	µg/Kg-dry	1	08/27/13 19:31
1,2-Dichloropropane	U		12	36	µg/Kg-dry	1	08/27/13 19:31
1,3-Dichlorobenzene	U		14	36	µg/Kg-dry	1	08/27/13 19:31
1,4-Dichlorobenzene	U		14	36	µg/Kg-dry	1	08/27/13 19:31
2-Butanone	U		88	240	µg/Kg-dry	1	08/27/13 19:31
2-Hexanone	U		8.7	36	µg/Kg-dry	1	08/27/13 19:31
4-Methyl-2-pentanone	U		12	36	µg/Kg-dry	1	08/27/13 19:31
Acetone	U		76	120	µg/Kg-dry	1	08/27/13 19:31
Benzene	U		14	36	µg/Kg-dry	1	08/27/13 19:31
Bromodichloromethane	U		8.0	36	µg/Kg-dry	1	08/27/13 19:31
Bromoform	U		7.0	36	µg/Kg-dry	1	08/27/13 19:31
Bromomethane	U		14	89	µg/Kg-dry	1	08/27/13 19:31
Carbon disulfide	U		18	36	µg/Kg-dry	1	08/27/13 19:31
Carbon tetrachloride	U		10	36	µg/Kg-dry	1	08/27/13 19:31
Chlorobenzene	U		15	36	µg/Kg-dry	1	08/27/13 19:31
Chloroethane	U		76	120	µg/Kg-dry	1	08/27/13 19:31
Chloroform	U		15	36	µg/Kg-dry	1	08/27/13 19:31
Chloromethane	U		20	120	µg/Kg-dry	1	08/27/13 19:31
cis-1,2-Dichloroethene	U		14	36	µg/Kg-dry	1	08/27/13 19:31
cis-1,3-Dichloropropene	U		12	36	µg/Kg-dry	1	08/27/13 19:31

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-090
Collection Date: 08/20/13 01:05 PM

Work Order: 1308936
Lab ID: 1308936-24
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		16	36	µg/Kg-dry	1	08/27/13 19:31
Dibromochloromethane	U		6.6	36	µg/Kg-dry	1	08/27/13 19:31
Dichlorodifluoromethane	U		16	36	µg/Kg-dry	1	08/27/13 19:31
Ethylbenzene	U		13	36	µg/Kg-dry	1	08/27/13 19:31
Isopropylbenzene	U		15	36	µg/Kg-dry	1	08/27/13 19:31
Methyl acetate	U		48	240	µg/Kg-dry	1	08/27/13 19:31
Methyl tert-butyl ether	U		15	36	µg/Kg-dry	1	08/27/13 19:31
Methylcyclohexane	U		17	36	µg/Kg-dry	1	08/27/13 19:31
Methylene chloride	130	J	14	140	µg/Kg-dry	1	08/27/13 19:31
Styrene	U		13	36	µg/Kg-dry	1	08/27/13 19:31
Tetrachloroethene	U		16	36	µg/Kg-dry	1	08/27/13 19:31
Toluene	U		13	36	µg/Kg-dry	1	08/27/13 19:31
trans-1,2-Dichloroethene	U		11	36	µg/Kg-dry	1	08/27/13 19:31
trans-1,3-Dichloropropene	U		12	36	µg/Kg-dry	1	08/27/13 19:31
Trichloroethene	U		17	36	µg/Kg-dry	1	08/27/13 19:31
Trichlorofluoromethane	U		9.8	36	µg/Kg-dry	1	08/27/13 19:31
Vinyl chloride	U		16	36	µg/Kg-dry	1	08/27/13 19:31
Xylenes, Total	U		42	110	µg/Kg-dry	1	08/27/13 19:31
Surr: 1,2-Dichloroethane-d4	104			70-130	%REC	1	08/27/13 19:31
Surr: 4-Bromofluorobenzene	98.4			70-130	%REC	1	08/27/13 19:31
Surr: Dibromofluoromethane	96.4			70-130	%REC	1	08/27/13 19:31
Surr: Toluene-d8	100			70-130	%REC	1	08/27/13 19:31
MOISTURE			A2540 G			Analyst: RLF	
BatchID: R125772							
Moisture	4.5		0.025	0.050	% of sample	1	08/27/13 08:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-091
Collection Date: 08/20/13 01:10 PM

Work Order: 1308936
Lab ID: 1308936-25
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471			Prep: SW7471 / 8/28/13	Analyst: LR
BatchID: <u>50875</u>							
Mercury	0.0062	J	0.00077	0.038	mg/Kg-dry	1	08/28/13 15:36
METALS BY ICP-MS			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
BatchID: <u>50802</u>							
Antimony	0.067	J	0.0015	0.37	mg/Kg-dry	1	08/27/13 21:54
Arsenic	1.2		0.051	0.37	mg/Kg-dry	1	08/27/13 21:54
Barium	15		0.010	0.37	mg/Kg-dry	1	08/27/13 21:54
Beryllium	0.081	J	0.0030	0.15	mg/Kg-dry	1	08/27/13 21:54
Cadmium	0.032	J	0.0015	0.15	mg/Kg-dry	1	08/27/13 21:54
Chromium	4.4		0.061	0.37	mg/Kg-dry	1	08/27/13 21:54
Cobalt	1.3		0.0015	0.37	mg/Kg-dry	1	08/27/13 21:54
Copper	2.6		0.073	0.37	mg/Kg-dry	1	08/27/13 21:54
Iron	4,000		1.2	6.0	mg/Kg-dry	1	08/27/13 21:54
Lead	2.4		0.0015	0.37	mg/Kg-dry	1	08/27/13 21:54
Manganese	81		0.033	0.37	mg/Kg-dry	1	08/27/13 21:54
Molybdenum	0.39		0.016	0.37	mg/Kg-dry	1	08/27/13 21:54
Nickel	3.3		0.037	0.37	mg/Kg-dry	1	08/27/13 21:54
Selenium	0.24	J	0.048	0.37	mg/Kg-dry	1	08/27/13 21:54
Silver	0.0028	J	0.0015	0.37	mg/Kg-dry	1	08/27/13 21:54
Thallium	0.025	J	0.0089	0.37	mg/Kg-dry	1	08/27/13 21:54
Vanadium	7.3		0.022	0.37	mg/Kg-dry	1	08/27/13 21:54
Zinc	8.2		0.031	0.75	mg/Kg-dry	1	08/27/13 21:54
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3541 / 8/26/13	Analyst: RM
BatchID: <u>50822</u>							
2-Methylnaphthalene	91		10	81	µg/Kg-dry	1	08/28/13 01:12
Acenaphthene	U		9.3	31	µg/Kg-dry	1	08/28/13 01:12
Acenaphthylene	U		9.6	31	µg/Kg-dry	1	08/28/13 01:12
Anthracene	31		10	31	µg/Kg-dry	1	08/28/13 01:12
Benzo(a)anthracene	23	J	12	31	µg/Kg-dry	1	08/28/13 01:12
Benzo(a)pyrene	72		16	31	µg/Kg-dry	1	08/28/13 01:12
Benzo(b)fluoranthene	61		16	31	µg/Kg-dry	1	08/28/13 01:12
Benzo(g,h,i)perylene	60		24	31	µg/Kg-dry	1	08/28/13 01:12
Benzo(k)fluoranthene	36		14	31	µg/Kg-dry	1	08/28/13 01:12
Chrysene	18	J	12	31	µg/Kg-dry	1	08/28/13 01:12
Dibenzo(a,h)anthracene	U		17	31	µg/Kg-dry	1	08/28/13 01:12
Fluoranthene	65		12	31	µg/Kg-dry	1	08/28/13 01:12
Fluorene	U		8.9	31	µg/Kg-dry	1	08/28/13 01:12

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-091
Collection Date: 08/20/13 01:10 PM

Work Order: 1308936
Lab ID: 1308936-25
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	35		19	31	µg/Kg-dry	1	08/28/13 01:12
Naphthalene	71		8.7	31	µg/Kg-dry	1	08/28/13 01:12
Phenanthrene	48		31	31	µg/Kg-dry	1	08/28/13 01:12
Pyrene	42		13	31	µg/Kg-dry	1	08/28/13 01:12
Surr: 2-Fluorobiphenyl	74.4			12-100	%REC	1	08/28/13 01:12
Surr: 4-Terphenyl-d14	125			25-137	%REC	1	08/28/13 01:12
Surr: Nitrobenzene-d5	69.3			37-107	%REC	1	08/28/13 01:12
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: BG
BatchID: 50821							
1,1,1-Trichloroethane	U		13	35	µg/Kg-dry	1	08/27/13 19:58
1,1,2,2-Tetrachloroethane	U		15	35	µg/Kg-dry	1	08/27/13 19:58
1,1,2-Trichloroethane	U		12	35	µg/Kg-dry	1	08/27/13 19:58
1,1,2-Trichlorotrifluoroethane	U		13	35	µg/Kg-dry	1	08/27/13 19:58
1,1-Dichloroethane	U		13	35	µg/Kg-dry	1	08/27/13 19:58
1,1-Dichloroethene	U		15	35	µg/Kg-dry	1	08/27/13 19:58
1,2,4-Trichlorobenzene	U		18	35	µg/Kg-dry	1	08/27/13 19:58
1,2-Dibromo-3-chloropropane	U		17	35	µg/Kg-dry	1	08/27/13 19:58
1,2-Dibromoethane	U		14	35	µg/Kg-dry	1	08/27/13 19:58
1,2-Dichlorobenzene	U		14	35	µg/Kg-dry	1	08/27/13 19:58
1,2-Dichloroethane	U		16	35	µg/Kg-dry	1	08/27/13 19:58
1,2-Dichloropropane	U		11	35	µg/Kg-dry	1	08/27/13 19:58
1,3-Dichlorobenzene	U		14	35	µg/Kg-dry	1	08/27/13 19:58
1,4-Dichlorobenzene	U		13	35	µg/Kg-dry	1	08/27/13 19:58
2-Butanone	U		85	230	µg/Kg-dry	1	08/27/13 19:58
2-Hexanone	U		8.5	35	µg/Kg-dry	1	08/27/13 19:58
4-Methyl-2-pentanone	U		12	35	µg/Kg-dry	1	08/27/13 19:58
Acetone	U		73	120	µg/Kg-dry	1	08/27/13 19:58
Benzene	U		14	35	µg/Kg-dry	1	08/27/13 19:58
Bromodichloromethane	U		7.7	35	µg/Kg-dry	1	08/27/13 19:58
Bromoform	U		6.8	35	µg/Kg-dry	1	08/27/13 19:58
Bromomethane	U		13	86	µg/Kg-dry	1	08/27/13 19:58
Carbon disulfide	U		17	35	µg/Kg-dry	1	08/27/13 19:58
Carbon tetrachloride	U		9.8	35	µg/Kg-dry	1	08/27/13 19:58
Chlorobenzene	U		14	35	µg/Kg-dry	1	08/27/13 19:58
Chloroethane	U		73	120	µg/Kg-dry	1	08/27/13 19:58
Chloroform	U		14	35	µg/Kg-dry	1	08/27/13 19:58
Chloromethane	U		19	120	µg/Kg-dry	1	08/27/13 19:58
cis-1,2-Dichloroethene	U		14	35	µg/Kg-dry	1	08/27/13 19:58
cis-1,3-Dichloropropene	U		12	35	µg/Kg-dry	1	08/27/13 19:58

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-091
Collection Date: 08/20/13 01:10 PM

Work Order: 1308936
Lab ID: 1308936-25
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		16	35	µg/Kg-dry	1	08/27/13 19:58
Dibromochloromethane	U		6.4	35	µg/Kg-dry	1	08/27/13 19:58
Dichlorodifluoromethane	U		16	35	µg/Kg-dry	1	08/27/13 19:58
Ethylbenzene	U		13	35	µg/Kg-dry	1	08/27/13 19:58
Isopropylbenzene	U		15	35	µg/Kg-dry	1	08/27/13 19:58
Methyl acetate	U		46	230	µg/Kg-dry	1	08/27/13 19:58
Methyl tert-butyl ether	U		15	35	µg/Kg-dry	1	08/27/13 19:58
Methylcyclohexane	U		16	35	µg/Kg-dry	1	08/27/13 19:58
Methylene chloride	110	J	14	120	µg/Kg-dry	1	08/27/13 19:58
Styrene	U		13	35	µg/Kg-dry	1	08/27/13 19:58
Tetrachloroethene	U		15	35	µg/Kg-dry	1	08/27/13 19:58
Toluene	U		13	35	µg/Kg-dry	1	08/27/13 19:58
trans-1,2-Dichloroethene	U		11	35	µg/Kg-dry	1	08/27/13 19:58
trans-1,3-Dichloropropene	U		12	35	µg/Kg-dry	1	08/27/13 19:58
Trichloroethene	U		16	35	µg/Kg-dry	1	08/27/13 19:58
Trichlorofluoromethane	U		9.5	35	µg/Kg-dry	1	08/27/13 19:58
Vinyl chloride	U		16	35	µg/Kg-dry	1	08/27/13 19:58
Xylenes, Total	U		41	100	µg/Kg-dry	1	08/27/13 19:58
Surr: 1,2-Dichloroethane-d4	103			70-130	%REC	1	08/27/13 19:58
Surr: 4-Bromofluorobenzene	98.5			70-130	%REC	1	08/27/13 19:58
Surr: Dibromofluoromethane	96.6			70-130	%REC	1	08/27/13 19:58
Surr: Toluene-d8	101			70-130	%REC	1	08/27/13 19:58
MOISTURE			A2540 G				Analyst: RLF
BatchID: <u>R125772</u>							
Moisture	4.8		0.025	0.050	% of sample	1	08/27/13 08:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-092
Collection Date: 08/20/13 01:15 PM

Work Order: 1308936
Lab ID: 1308936-26
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471			Prep: SW7471 / 8/28/13	Analyst: LR
BatchID: <u>50875</u>							
Mercury	0.0062	J	0.00074	0.037	mg/Kg-dry	1	08/29/13 12:34
METALS BY ICP-MS			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
BatchID: <u>50802</u>							
Antimony	0.048	J	0.0014	0.36	mg/Kg-dry	1	08/27/13 22:01
Arsenic	1.1		0.049	0.36	mg/Kg-dry	1	08/27/13 22:01
Barium	13		0.010	0.36	mg/Kg-dry	1	08/27/13 22:01
Beryllium	0.084	J	0.0029	0.14	mg/Kg-dry	1	08/27/13 22:01
Cadmium	0.032	J	0.0014	0.14	mg/Kg-dry	1	08/27/13 22:01
Chromium	4.0		0.059	0.36	mg/Kg-dry	1	08/27/13 22:01
Cobalt	1.3		0.0014	0.36	mg/Kg-dry	1	08/27/13 22:01
Copper	2.4		0.070	0.36	mg/Kg-dry	1	08/27/13 22:01
Iron	3,700		1.2	5.8	mg/Kg-dry	1	08/27/13 22:01
Lead	2.4		0.0014	0.36	mg/Kg-dry	1	08/27/13 22:01
Manganese	72		0.032	0.36	mg/Kg-dry	1	08/27/13 22:01
Molybdenum	0.24	J	0.016	0.36	mg/Kg-dry	1	08/27/13 22:01
Nickel	3.3		0.036	0.36	mg/Kg-dry	1	08/27/13 22:01
Selenium	0.24	J	0.046	0.36	mg/Kg-dry	1	08/27/13 22:01
Silver	0.0020	J	0.0014	0.36	mg/Kg-dry	1	08/27/13 22:01
Thallium	0.021	J	0.0086	0.36	mg/Kg-dry	1	08/27/13 22:01
Vanadium	7.1		0.022	0.36	mg/Kg-dry	1	08/27/13 22:01
Zinc	7.6		0.030	0.72	mg/Kg-dry	1	08/27/13 22:01
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3541 / 8/26/13	Analyst: HL
BatchID: <u>50822</u>							
2-Methylnaphthalene	U		10	82	µg/Kg-dry	1	08/27/13 18:28
Acenaphthene	U		9.4	31	µg/Kg-dry	1	08/27/13 18:28
Acenaphthylene	U		9.7	31	µg/Kg-dry	1	08/27/13 18:28
Anthracene	30	J	10	31	µg/Kg-dry	1	08/27/13 18:28
Benzo(a)anthracene	120		13	31	µg/Kg-dry	1	08/27/13 18:28
Benzo(a)pyrene	93		16	31	µg/Kg-dry	1	08/27/13 18:28
Benzo(b)fluoranthene	170		17	31	µg/Kg-dry	1	08/27/13 18:28
Benzo(g,h,i)perylene	69		24	31	µg/Kg-dry	1	08/27/13 18:28
Benzo(k)fluoranthene	55		14	31	µg/Kg-dry	1	08/27/13 18:28
Chrysene	130		12	31	µg/Kg-dry	1	08/27/13 18:28
Dibenzo(a,h)anthracene	19	J	18	31	µg/Kg-dry	1	08/27/13 18:28
Fluoranthene	210		12	31	µg/Kg-dry	1	08/27/13 18:28
Fluorene	U		9.0	31	µg/Kg-dry	1	08/27/13 18:28

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-092
Collection Date: 08/20/13 01:15 PM

Work Order: 1308936
Lab ID: 1308936-26
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	67		19	31	µg/Kg-dry	1	08/27/13 18:28
Naphthalene	U		8.8	31	µg/Kg-dry	1	08/27/13 18:28
Phenanthrene	140		31	31	µg/Kg-dry	1	08/27/13 18:28
Pyrene	170		13	31	µg/Kg-dry	1	08/27/13 18:28
Surr: 2-Fluorobiphenyl	76.0			12-100	%REC	1	08/27/13 18:28
Surr: 4-Terphenyl-d14	108			25-137	%REC	1	08/27/13 18:28
Surr: Nitrobenzene-d5	61.4			37-107	%REC	1	08/27/13 18:28
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: BG
BatchID: 50821							
1,1,1-Trichloroethane	U		14	37	µg/Kg-dry	1	08/27/13 20:25
1,1,2,2-Tetrachloroethane	U		16	37	µg/Kg-dry	1	08/27/13 20:25
1,1,2-Trichloroethane	U		13	37	µg/Kg-dry	1	08/27/13 20:25
1,1,2-Trichlorotrifluoroethane	U		14	37	µg/Kg-dry	1	08/27/13 20:25
1,1-Dichloroethane	U		14	37	µg/Kg-dry	1	08/27/13 20:25
1,1-Dichloroethene	U		16	37	µg/Kg-dry	1	08/27/13 20:25
1,2,4-Trichlorobenzene	U		19	37	µg/Kg-dry	1	08/27/13 20:25
1,2-Dibromo-3-chloropropane	U		18	37	µg/Kg-dry	1	08/27/13 20:25
1,2-Dibromoethane	U		15	37	µg/Kg-dry	1	08/27/13 20:25
1,2-Dichlorobenzene	U		15	37	µg/Kg-dry	1	08/27/13 20:25
1,2-Dichloroethane	U		18	37	µg/Kg-dry	1	08/27/13 20:25
1,2-Dichloropropane	U		12	37	µg/Kg-dry	1	08/27/13 20:25
1,3-Dichlorobenzene	U		15	37	µg/Kg-dry	1	08/27/13 20:25
1,4-Dichlorobenzene	U		14	37	µg/Kg-dry	1	08/27/13 20:25
2-Butanone	U		93	250	µg/Kg-dry	1	08/27/13 20:25
2-Hexanone	U		9.2	37	µg/Kg-dry	1	08/27/13 20:25
4-Methyl-2-pentanone	U		13	37	µg/Kg-dry	1	08/27/13 20:25
Acetone	U		79	120	µg/Kg-dry	1	08/27/13 20:25
Benzene	U		15	37	µg/Kg-dry	1	08/27/13 20:25
Bromodichloromethane	U		8.4	37	µg/Kg-dry	1	08/27/13 20:25
Bromoform	U		7.4	37	µg/Kg-dry	1	08/27/13 20:25
Bromomethane	U		14	94	µg/Kg-dry	1	08/27/13 20:25
Carbon disulfide	U		19	37	µg/Kg-dry	1	08/27/13 20:25
Carbon tetrachloride	U		11	37	µg/Kg-dry	1	08/27/13 20:25
Chlorobenzene	U		15	37	µg/Kg-dry	1	08/27/13 20:25
Chloroethane	U		79	120	µg/Kg-dry	1	08/27/13 20:25
Chloroform	U		15	37	µg/Kg-dry	1	08/27/13 20:25
Chloromethane	U		21	120	µg/Kg-dry	1	08/27/13 20:25
cis-1,2-Dichloroethene	U		15	37	µg/Kg-dry	1	08/27/13 20:25
cis-1,3-Dichloropropene	U		13	37	µg/Kg-dry	1	08/27/13 20:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-092
Collection Date: 08/20/13 01:15 PM

Work Order: 1308936
Lab ID: 1308936-26
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		17	37	µg/Kg-dry	1	08/27/13 20:25
Dibromochloromethane	U		6.9	37	µg/Kg-dry	1	08/27/13 20:25
Dichlorodifluoromethane	U		17	37	µg/Kg-dry	1	08/27/13 20:25
Ethylbenzene	U		14	37	µg/Kg-dry	1	08/27/13 20:25
Isopropylbenzene	U		16	37	µg/Kg-dry	1	08/27/13 20:25
Methyl acetate	U		50	250	µg/Kg-dry	1	08/27/13 20:25
Methyl tert-butyl ether	U		16	37	µg/Kg-dry	1	08/27/13 20:25
Methylcyclohexane	U		17	37	µg/Kg-dry	1	08/27/13 20:25
Methylene chloride	110	J	15	120	µg/Kg-dry	1	08/27/13 20:25
Styrene	U		14	37	µg/Kg-dry	1	08/27/13 20:25
Tetrachloroethene	U		17	37	µg/Kg-dry	1	08/27/13 20:25
Toluene	U		14	37	µg/Kg-dry	1	08/27/13 20:25
trans-1,2-Dichloroethene	U		12	37	µg/Kg-dry	1	08/27/13 20:25
trans-1,3-Dichloropropene	U		13	37	µg/Kg-dry	1	08/27/13 20:25
Trichloroethene	U		17	37	µg/Kg-dry	1	08/27/13 20:25
Trichlorofluoromethane	U		10	37	µg/Kg-dry	1	08/27/13 20:25
Vinyl chloride	U		17	37	µg/Kg-dry	1	08/27/13 20:25
Xylenes, Total	U		44	110	µg/Kg-dry	1	08/27/13 20:25
Surr: 1,2-Dichloroethane-d4	102			70-130	%REC	1	08/27/13 20:25
Surr: 4-Bromofluorobenzene	101			70-130	%REC	1	08/27/13 20:25
Surr: Dibromofluoromethane	96.7			70-130	%REC	1	08/27/13 20:25
Surr: Toluene-d8	102			70-130	%REC	1	08/27/13 20:25
MOISTURE			A2540 G				Analyst: RLF
BatchID: <u>R125772</u>							
Moisture	4.1		0.025	0.050	% of sample	1	08/27/13 08:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-093
Collection Date: 08/20/13 01:20 PM

Work Order: 1308936
Lab ID: 1308936-27
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471			Prep: SW7471 / 8/28/13	Analyst: LR
BatchID: <u>50875</u>							
Mercury	0.012	J	0.00077	0.038	mg/Kg-dry	1	08/29/13 12:36
METALS BY ICP-MS			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
BatchID: <u>50802</u>							
Antimony	0.062	J	0.0015	0.38	mg/Kg-dry	1	08/27/13 23:02
Arsenic	1.0		0.052	0.38	mg/Kg-dry	1	08/27/13 23:02
Barium	22		0.011	0.38	mg/Kg-dry	1	08/27/13 23:02
Beryllium	0.11	J	0.0031	0.15	mg/Kg-dry	1	08/27/13 23:02
Cadmium	0.039	J	0.0015	0.15	mg/Kg-dry	1	08/27/13 23:02
Chromium	5.0		0.063	0.38	mg/Kg-dry	1	08/27/13 23:02
Cobalt	1.8		0.0015	0.38	mg/Kg-dry	1	08/27/13 23:02
Copper	2.1		0.075	0.38	mg/Kg-dry	1	08/27/13 23:02
Iron	4,500		1.3	6.1	mg/Kg-dry	1	08/27/13 23:02
Lead	3.6		0.0015	0.38	mg/Kg-dry	1	08/27/13 23:02
Manganese	78		0.034	0.38	mg/Kg-dry	1	08/27/13 23:02
Molybdenum	0.18	J	0.017	0.38	mg/Kg-dry	1	08/27/13 23:02
Nickel	4.1		0.038	0.38	mg/Kg-dry	1	08/27/13 23:02
Selenium	0.35	J	0.049	0.38	mg/Kg-dry	1	08/27/13 23:02
Silver	0.0077	J	0.0015	0.38	mg/Kg-dry	1	08/27/13 23:02
Thallium	0.076	J	0.0092	0.38	mg/Kg-dry	1	08/27/13 23:02
Vanadium	8.9		0.023	0.38	mg/Kg-dry	1	08/27/13 23:02
Zinc	9.5		0.032	0.77	mg/Kg-dry	1	08/27/13 23:02
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3541 / 8/26/13	Analyst: HL
BatchID: <u>50822</u>							
2-Methylnaphthalene	U		10	84	µg/Kg-dry	1	08/27/13 18:50
Acenaphthene	U		9.6	32	µg/Kg-dry	1	08/27/13 18:50
Acenaphthylene	U		9.9	32	µg/Kg-dry	1	08/27/13 18:50
Anthracene	U		11	32	µg/Kg-dry	1	08/27/13 18:50
Benzo(a)anthracene	37		13	32	µg/Kg-dry	1	08/27/13 18:50
Benzo(a)pyrene	24	J	16	32	µg/Kg-dry	1	08/27/13 18:50
Benzo(b)fluoranthene	41		17	32	µg/Kg-dry	1	08/27/13 18:50
Benzo(g,h,i)perylene	U		25	32	µg/Kg-dry	1	08/27/13 18:50
Benzo(k)fluoranthene	U		14	32	µg/Kg-dry	1	08/27/13 18:50
Chrysene	34		12	32	µg/Kg-dry	1	08/27/13 18:50
Dibenzo(a,h)anthracene	U		18	32	µg/Kg-dry	1	08/27/13 18:50
Fluoranthene	55		12	32	µg/Kg-dry	1	08/27/13 18:50
Fluorene	U		9.2	32	µg/Kg-dry	1	08/27/13 18:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-093
Collection Date: 08/20/13 01:20 PM

Work Order: 1308936
Lab ID: 1308936-27
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	U		20	32	µg/Kg-dry	1	08/27/13 18:50
Naphthalene	U		9.0	32	µg/Kg-dry	1	08/27/13 18:50
Phenanthrene	39		32	32	µg/Kg-dry	1	08/27/13 18:50
Pyrene	51		13	32	µg/Kg-dry	1	08/27/13 18:50
Surr: 2-Fluorobiphenyl	68.9			12-100	%REC	1	08/27/13 18:50
Surr: 4-Terphenyl-d14	113			25-137	%REC	1	08/27/13 18:50
Surr: Nitrobenzene-d5	54.8			37-107	%REC	1	08/27/13 18:50
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: BG
BatchID: 50821							
1,1,1-Trichloroethane	U		15	40	µg/Kg-dry	1	08/27/13 20:52
1,1,2,2-Tetrachloroethane	U		18	40	µg/Kg-dry	1	08/27/13 20:52
1,1,2-Trichloroethane	U		14	40	µg/Kg-dry	1	08/27/13 20:52
1,1,2-Trichlorotrifluoroethane	U		15	40	µg/Kg-dry	1	08/27/13 20:52
1,1-Dichloroethane	U		15	40	µg/Kg-dry	1	08/27/13 20:52
1,1-Dichloroethene	U		17	40	µg/Kg-dry	1	08/27/13 20:52
1,2,4-Trichlorobenzene	U		21	40	µg/Kg-dry	1	08/27/13 20:52
1,2-Dibromo-3-chloropropane	U		20	40	µg/Kg-dry	1	08/27/13 20:52
1,2-Dibromoethane	U		16	40	µg/Kg-dry	1	08/27/13 20:52
1,2-Dichlorobenzene	U		16	40	µg/Kg-dry	1	08/27/13 20:52
1,2-Dichloroethane	U		19	40	µg/Kg-dry	1	08/27/13 20:52
1,2-Dichloropropane	U		13	40	µg/Kg-dry	1	08/27/13 20:52
1,3-Dichlorobenzene	U		16	40	µg/Kg-dry	1	08/27/13 20:52
1,4-Dichlorobenzene	U		15	40	µg/Kg-dry	1	08/27/13 20:52
2-Butanone	U		100	270	µg/Kg-dry	1	08/27/13 20:52
2-Hexanone	U		9.9	40	µg/Kg-dry	1	08/27/13 20:52
4-Methyl-2-pentanone	U		14	40	µg/Kg-dry	1	08/27/13 20:52
Acetone	U		85	130	µg/Kg-dry	1	08/27/13 20:52
Benzene	U		16	40	µg/Kg-dry	1	08/27/13 20:52
Bromodichloromethane	U		9.0	40	µg/Kg-dry	1	08/27/13 20:52
Bromoform	U		7.9	40	µg/Kg-dry	1	08/27/13 20:52
Bromomethane	U		15	100	µg/Kg-dry	1	08/27/13 20:52
Carbon disulfide	U		20	40	µg/Kg-dry	1	08/27/13 20:52
Carbon tetrachloride	U		11	40	µg/Kg-dry	1	08/27/13 20:52
Chlorobenzene	U		16	40	µg/Kg-dry	1	08/27/13 20:52
Chloroethane	U		86	130	µg/Kg-dry	1	08/27/13 20:52
Chloroform	U		17	40	µg/Kg-dry	1	08/27/13 20:52
Chloromethane	U		22	130	µg/Kg-dry	1	08/27/13 20:52
cis-1,2-Dichloroethene	U		16	40	µg/Kg-dry	1	08/27/13 20:52
cis-1,3-Dichloropropene	U		14	40	µg/Kg-dry	1	08/27/13 20:52

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-093
Collection Date: 08/20/13 01:20 PM

Work Order: 1308936
Lab ID: 1308936-27
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		18	40	µg/Kg-dry	1	08/27/13 20:52
Dibromochloromethane	U		7.5	40	µg/Kg-dry	1	08/27/13 20:52
Dichlorodifluoromethane	U		18	40	µg/Kg-dry	1	08/27/13 20:52
Ethylbenzene	U		15	40	µg/Kg-dry	1	08/27/13 20:52
Isopropylbenzene	U		17	40	µg/Kg-dry	1	08/27/13 20:52
Methyl acetate	U		54	270	µg/Kg-dry	1	08/27/13 20:52
Methyl tert-butyl ether	U		17	40	µg/Kg-dry	1	08/27/13 20:52
Methylcyclohexane	U		19	40	µg/Kg-dry	1	08/27/13 20:52
Methylene chloride	110	J	16	120	µg/Kg-dry	1	08/27/13 20:52
Styrene	U		15	40	µg/Kg-dry	1	08/27/13 20:52
Tetrachloroethene	U		18	40	µg/Kg-dry	1	08/27/13 20:52
Toluene	U		15	40	µg/Kg-dry	1	08/27/13 20:52
trans-1,2-Dichloroethene	U		12	40	µg/Kg-dry	1	08/27/13 20:52
trans-1,3-Dichloropropene	U		13	40	µg/Kg-dry	1	08/27/13 20:52
Trichloroethene	U		19	40	µg/Kg-dry	1	08/27/13 20:52
Trichlorofluoromethane	U		11	40	µg/Kg-dry	1	08/27/13 20:52
Vinyl chloride	U		18	40	µg/Kg-dry	1	08/27/13 20:52
Xylenes, Total	U		48	120	µg/Kg-dry	1	08/27/13 20:52
Surr: 1,2-Dichloroethane-d4	105			70-130	%REC	1	08/27/13 20:52
Surr: 4-Bromofluorobenzene	101			70-130	%REC	1	08/27/13 20:52
Surr: Dibromofluoromethane	95.2			70-130	%REC	1	08/27/13 20:52
Surr: Toluene-d8	102			70-130	%REC	1	08/27/13 20:52
MOISTURE			A2540 G			Analyst: RLF	
BatchID: R125772							
Moisture	7.4		0.025	0.050	% of sample	1	08/27/13 08:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-094
Collection Date: 08/20/13 01:25 PM

Work Order: 1308936
Lab ID: 1308936-28
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/28/13	Analyst: LR
<u>BatchID: 50875</u>							
Mercury	0.025	J	0.00089	0.045	mg/Kg-dry	1	08/29/13 12:38
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
<u>BatchID: 50802</u>							
Antimony	0.082	J	0.0017	0.42	mg/Kg-dry	1	08/27/13 22:26
Arsenic	1.2		0.057	0.42	mg/Kg-dry	1	08/27/13 22:26
Barium	32		0.012	0.42	mg/Kg-dry	1	08/27/13 22:26
Beryllium	0.13	J	0.0034	0.17	mg/Kg-dry	1	08/27/13 22:26
Cadmium	0.10	J	0.0017	0.17	mg/Kg-dry	1	08/27/13 22:26
Chromium	5.5		0.069	0.42	mg/Kg-dry	1	08/27/13 22:26
Cobalt	1.7		0.0017	0.42	mg/Kg-dry	1	08/27/13 22:26
Copper	3.8		0.082	0.42	mg/Kg-dry	1	08/27/13 22:26
Iron	4,600		1.4	6.7	mg/Kg-dry	1	08/27/13 22:26
Lead	5.2		0.0017	0.42	mg/Kg-dry	1	08/27/13 22:26
Manganese	120		0.037	0.42	mg/Kg-dry	1	08/27/13 22:26
Molybdenum	0.23	J	0.018	0.42	mg/Kg-dry	1	08/27/13 22:26
Nickel	4.1		0.042	0.42	mg/Kg-dry	1	08/27/13 22:26
Selenium	0.53		0.054	0.42	mg/Kg-dry	1	08/27/13 22:26
Silver	0.011	J	0.0017	0.42	mg/Kg-dry	1	08/27/13 22:26
Thallium	0.056	J	0.010	0.42	mg/Kg-dry	1	08/27/13 22:26
Vanadium	9.0		0.025	0.42	mg/Kg-dry	1	08/27/13 22:26
Zinc	14		0.035	0.84	mg/Kg-dry	1	08/27/13 22:26
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/26/13	Analyst: HL
<u>BatchID: 50822</u>							
2-Methylnaphthalene	U		12	96	µg/Kg-dry	1	08/28/13 22:53
Acenaphthene	U		11	36	µg/Kg-dry	1	08/28/13 22:53
Acenaphthylene	U		11	36	µg/Kg-dry	1	08/28/13 22:53
Anthracene	U		12	36	µg/Kg-dry	1	08/28/13 22:53
Benzo(a)anthracene	U		15	36	µg/Kg-dry	1	08/28/13 22:53
Benzo(a)pyrene	U		19	36	µg/Kg-dry	1	08/28/13 22:53
Benzo(b)fluoranthene	U		19	36	µg/Kg-dry	1	08/28/13 22:53
Benzo(g,h,i)perylene	U		28	36	µg/Kg-dry	1	08/28/13 22:53
Benzo(k)fluoranthene	U		16	36	µg/Kg-dry	1	08/28/13 22:53
Chrysene	U		14	36	µg/Kg-dry	1	08/28/13 22:53
Dibenzo(a,h)anthracene	U		20	36	µg/Kg-dry	1	08/28/13 22:53
Fluoranthene	U		14	36	µg/Kg-dry	1	08/28/13 22:53
Fluorene	U		10	36	µg/Kg-dry	1	08/28/13 22:53

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-094
Collection Date: 08/20/13 01:25 PM

Work Order: 1308936
Lab ID: 1308936-28
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	U		23	36	µg/Kg-dry	1	08/28/13 22:53
Naphthalene	U		10	36	µg/Kg-dry	1	08/28/13 22:53
Phenanthrene	U		36	36	µg/Kg-dry	1	08/28/13 22:53
Pyrene	U		15	36	µg/Kg-dry	1	08/28/13 22:53
Surr: 2-Fluorobiphenyl	69.4			12-100	%REC	1	08/28/13 22:53
Surr: 4-Terphenyl-d14	112			25-137	%REC	1	08/28/13 22:53
Surr: Nitrobenzene-d5	56.8			37-107	%REC	1	08/28/13 22:53
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: BG
BatchID: 50821							
1,1,1-Trichloroethane	U		14	37	µg/Kg-dry	1	08/27/13 21:19
1,1,2,2-Tetrachloroethane	U		16	37	µg/Kg-dry	1	08/27/13 21:19
1,1,2-Trichloroethane	U		13	37	µg/Kg-dry	1	08/27/13 21:19
1,1,2-Trichlorotrifluoroethane	U		14	37	µg/Kg-dry	1	08/27/13 21:19
1,1-Dichloroethane	U		14	37	µg/Kg-dry	1	08/27/13 21:19
1,1-Dichloroethene	U		16	37	µg/Kg-dry	1	08/27/13 21:19
1,2,4-Trichlorobenzene	U		19	37	µg/Kg-dry	1	08/27/13 21:19
1,2-Dibromo-3-chloropropane	U		18	37	µg/Kg-dry	1	08/27/13 21:19
1,2-Dibromoethane	U		15	37	µg/Kg-dry	1	08/27/13 21:19
1,2-Dichlorobenzene	U		15	37	µg/Kg-dry	1	08/27/13 21:19
1,2-Dichloroethane	U		18	37	µg/Kg-dry	1	08/27/13 21:19
1,2-Dichloropropane	U		12	37	µg/Kg-dry	1	08/27/13 21:19
1,3-Dichlorobenzene	U		15	37	µg/Kg-dry	1	08/27/13 21:19
1,4-Dichlorobenzene	U		14	37	µg/Kg-dry	1	08/27/13 21:19
2-Butanone	U		92	250	µg/Kg-dry	1	08/27/13 21:19
2-Hexanone	U		9.1	37	µg/Kg-dry	1	08/27/13 21:19
4-Methyl-2-pentanone	U		13	37	µg/Kg-dry	1	08/27/13 21:19
Acetone	U		78	120	µg/Kg-dry	1	08/27/13 21:19
Benzene	U		15	37	µg/Kg-dry	1	08/27/13 21:19
Bromodichloromethane	U		8.3	37	µg/Kg-dry	1	08/27/13 21:19
Bromoform	U		7.3	37	µg/Kg-dry	1	08/27/13 21:19
Bromomethane	U		14	93	µg/Kg-dry	1	08/27/13 21:19
Carbon disulfide	U		18	37	µg/Kg-dry	1	08/27/13 21:19
Carbon tetrachloride	U		11	37	µg/Kg-dry	1	08/27/13 21:19
Chlorobenzene	U		15	37	µg/Kg-dry	1	08/27/13 21:19
Chloroethane	U		79	120	µg/Kg-dry	1	08/27/13 21:19
Chloroform	U		15	37	µg/Kg-dry	1	08/27/13 21:19
Chloromethane	U		21	120	µg/Kg-dry	1	08/27/13 21:19
cis-1,2-Dichloroethene	U		15	37	µg/Kg-dry	1	08/27/13 21:19
cis-1,3-Dichloropropene	U		13	37	µg/Kg-dry	1	08/27/13 21:19

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-094
Collection Date: 08/20/13 01:25 PM

Work Order: 1308936
Lab ID: 1308936-28
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		17	37	µg/Kg-dry	1	08/27/13 21:19
Dibromochloromethane	U		6.8	37	µg/Kg-dry	1	08/27/13 21:19
Dichlorodifluoromethane	U		17	37	µg/Kg-dry	1	08/27/13 21:19
Ethylbenzene	U		14	37	µg/Kg-dry	1	08/27/13 21:19
Isopropylbenzene	U		16	37	µg/Kg-dry	1	08/27/13 21:19
Methyl acetate	U		50	250	µg/Kg-dry	1	08/27/13 21:19
Methyl tert-butyl ether	U		16	37	µg/Kg-dry	1	08/27/13 21:19
Methylcyclohexane	U		17	37	µg/Kg-dry	1	08/27/13 21:19
Methylene chloride	92	J	15	93	µg/Kg-dry	1	08/27/13 21:19
Styrene	U		14	37	µg/Kg-dry	1	08/27/13 21:19
Tetrachloroethene	U		16	37	µg/Kg-dry	1	08/27/13 21:19
Toluene	U		14	37	µg/Kg-dry	1	08/27/13 21:19
trans-1,2-Dichloroethene	U		11	37	µg/Kg-dry	1	08/27/13 21:19
trans-1,3-Dichloropropene	U		12	37	µg/Kg-dry	1	08/27/13 21:19
Trichloroethene	U		17	37	µg/Kg-dry	1	08/27/13 21:19
Trichlorofluoromethane	U		10	37	µg/Kg-dry	1	08/27/13 21:19
Vinyl chloride	U		17	37	µg/Kg-dry	1	08/27/13 21:19
Xylenes, Total	U		44	110	µg/Kg-dry	1	08/27/13 21:19
Surr: 1,2-Dichloroethane-d4	103			70-130	%REC	1	08/27/13 21:19
Surr: 4-Bromofluorobenzene	101			70-130	%REC	1	08/27/13 21:19
Surr: Dibromofluoromethane	97.6			70-130	%REC	1	08/27/13 21:19
Surr: Toluene-d8	102			70-130	%REC	1	08/27/13 21:19
MOISTURE			A2540 G				Analyst: RLF
BatchID: <u>R125772</u>							
Moisture	17		0.025	0.050	% of sample	1	08/27/13 08:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-095
Collection Date: 08/20/13 02:10 PM

Work Order: 1308936
Lab ID: 1308936-29
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/28/13	Analyst: LR
BatchID: 50875							
Mercury	0.017	J	0.00075	0.037	mg/Kg-dry	1	08/29/13 12:46
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
BatchID: 50802							
Antimony	0.95		0.0015	0.38	mg/Kg-dry	1	08/27/13 22:32
Arsenic	2.1		0.052	0.38	mg/Kg-dry	1	08/27/13 22:32
Barium	53		0.011	0.38	mg/Kg-dry	1	08/27/13 22:32
Beryllium	0.11	J	0.0030	0.15	mg/Kg-dry	1	08/27/13 22:32
Cadmium	0.16		0.0015	0.15	mg/Kg-dry	1	08/27/13 22:32
Chromium	15		0.062	0.38	mg/Kg-dry	1	08/27/13 22:32
Cobalt	2.6		0.0015	0.38	mg/Kg-dry	1	08/27/13 22:32
Copper	9.9		0.074	0.38	mg/Kg-dry	1	08/27/13 22:32
Iron	7,900		1.3	6.1	mg/Kg-dry	1	08/27/13 22:32
Lead	99		0.0015	0.38	mg/Kg-dry	1	08/27/13 22:32
Molybdenum	1.5		0.017	0.38	mg/Kg-dry	1	08/27/13 22:32
Nickel	10		0.038	0.38	mg/Kg-dry	1	08/27/13 22:32
Selenium	0.32	J	0.049	0.38	mg/Kg-dry	1	08/27/13 22:32
Silver	0.13	J	0.0015	0.38	mg/Kg-dry	1	08/27/13 22:32
Thallium	0.045	J	0.0091	0.38	mg/Kg-dry	1	08/27/13 22:32
Vanadium	14		0.023	0.38	mg/Kg-dry	1	08/27/13 22:32
Zinc	31		0.032	0.76	mg/Kg-dry	1	08/27/13 22:32
BatchID: 50802							
Manganese	230		0.33	3.8	mg/Kg-dry	10	08/28/13 19:00
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/26/13	Analyst: HL
BatchID: 50822							
2-Methylnaphthalene	330	J	100	840	µg/Kg-dry	10	08/27/13 20:39
Acenaphthene	600		96	320	µg/Kg-dry	10	08/27/13 20:39
Acenaphthylene	U		100	320	µg/Kg-dry	10	08/27/13 20:39
Anthracene	750		110	320	µg/Kg-dry	10	08/27/13 20:39
Benzo(a)anthracene	2,100		130	320	µg/Kg-dry	10	08/27/13 20:39
Benzo(a)pyrene	1,600		160	320	µg/Kg-dry	10	08/27/13 20:39
Benzo(b)fluoranthene	2,500		170	320	µg/Kg-dry	10	08/27/13 20:39
Benzo(g,h,i)perylene	840		250	320	µg/Kg-dry	10	08/27/13 20:39
Benzo(k)fluoranthene	880		140	320	µg/Kg-dry	10	08/27/13 20:39
Chrysene	2,100		120	320	µg/Kg-dry	10	08/27/13 20:39
Dibenzo(a,h)anthracene	210	J	180	320	µg/Kg-dry	10	08/27/13 20:39
Fluoranthene	5,800		130	320	µg/Kg-dry	10	08/27/13 20:39

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-095
Collection Date: 08/20/13 02:10 PM

Work Order: 1308936
Lab ID: 1308936-29
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	320	J	92	320	µg/Kg-dry	10	08/27/13 20:39
Indeno(1,2,3-cd)pyrene	910		200	320	µg/Kg-dry	10	08/27/13 20:39
Naphthalene	250		90	320	µg/Kg-dry	10	08/27/13 20:39
Phenanthrene	5,100		320	320	µg/Kg-dry	10	08/27/13 20:39
Pyrene	4,900		130	320	µg/Kg-dry	10	08/27/13 20:39
Surr: 2-Fluorobiphenyl	76.8			12-100	%REC	10	08/27/13 20:39
Surr: 4-Terphenyl-d14	111			25-137	%REC	10	08/27/13 20:39
Surr: Nitrobenzene-d5	55.0				37-107	%REC	10
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: BG
BatchID: 50821							
1,1,1-Trichloroethane	U		12	32	µg/Kg-dry	1	08/27/13 21:46
1,1,2,2-Tetrachloroethane	U		14	32	µg/Kg-dry	1	08/27/13 21:46
1,1,2-Trichloroethane	U		11	32	µg/Kg-dry	1	08/27/13 21:46
1,1,2-Trichlorotrifluoroethane	U		12	32	µg/Kg-dry	1	08/27/13 21:46
1,1-Dichloroethane	U		12	32	µg/Kg-dry	1	08/27/13 21:46
1,1-Dichloroethene	U		14	32	µg/Kg-dry	1	08/27/13 21:46
1,2,4-Trichlorobenzene	U		17	32	µg/Kg-dry	1	08/27/13 21:46
1,2-Dibromo-3-chloropropane	U		16	32	µg/Kg-dry	1	08/27/13 21:46
1,2-Dibromoethane	U		13	32	µg/Kg-dry	1	08/27/13 21:46
1,2-Dichlorobenzene	U		13	32	µg/Kg-dry	1	08/27/13 21:46
1,2-Dichloroethane	U		15	32	µg/Kg-dry	1	08/27/13 21:46
1,2-Dichloropropane	U		11	32	µg/Kg-dry	1	08/27/13 21:46
1,3-Dichlorobenzene	U		13	32	µg/Kg-dry	1	08/27/13 21:46
1,4-Dichlorobenzene	U		12	32	µg/Kg-dry	1	08/27/13 21:46
2-Butanone	U		80	220	µg/Kg-dry	1	08/27/13 21:46
2-Hexanone	U		7.9	32	µg/Kg-dry	1	08/27/13 21:46
4-Methyl-2-pentanone	U		11	32	µg/Kg-dry	1	08/27/13 21:46
Acetone	U		69	110	µg/Kg-dry	1	08/27/13 21:46
Benzene	U		13	32	µg/Kg-dry	1	08/27/13 21:46
Bromodichloromethane	U		7.3	32	µg/Kg-dry	1	08/27/13 21:46
Bromoform	U		6.4	32	µg/Kg-dry	1	08/27/13 21:46
Bromomethane	U		12	81	µg/Kg-dry	1	08/27/13 21:46
Carbon disulfide	U		16	32	µg/Kg-dry	1	08/27/13 21:46
Carbon tetrachloride	U		9.2	32	µg/Kg-dry	1	08/27/13 21:46
Chlorobenzene	U		13	32	µg/Kg-dry	1	08/27/13 21:46
Chloroethane	U		69	110	µg/Kg-dry	1	08/27/13 21:46
Chloroform	U		13	32	µg/Kg-dry	1	08/27/13 21:46
Chloromethane	U		18	110	µg/Kg-dry	1	08/27/13 21:46
cis-1,2-Dichloroethene	U		13	32	µg/Kg-dry	1	08/27/13 21:46

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-095
Collection Date: 08/20/13 02:10 PM

Work Order: 1308936
Lab ID: 1308936-29
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		11	32	µg/Kg-dry	1	08/27/13 21:46
Cyclohexane	U		15	32	µg/Kg-dry	1	08/27/13 21:46
Dibromochloromethane	U		6.0	32	µg/Kg-dry	1	08/27/13 21:46
Dichlorodifluoromethane	U		15	32	µg/Kg-dry	1	08/27/13 21:46
Ethylbenzene	U		12	32	µg/Kg-dry	1	08/27/13 21:46
Isopropylbenzene	U		14	32	µg/Kg-dry	1	08/27/13 21:46
Methyl acetate	190	J	43	220	µg/Kg-dry	1	08/27/13 21:46
Methyl tert-butyl ether	U		14	32	µg/Kg-dry	1	08/27/13 21:46
Methylcyclohexane	32	J	15	32	µg/Kg-dry	1	08/27/13 21:46
Methylene chloride	91	J	13	92	µg/Kg-dry	1	08/27/13 21:46
Styrene	U		12	32	µg/Kg-dry	1	08/27/13 21:46
Tetrachloroethene	U		14	32	µg/Kg-dry	1	08/27/13 21:46
Toluene	44		12	32	µg/Kg-dry	1	08/27/13 21:46
trans-1,2-Dichloroethene	U		10	32	µg/Kg-dry	1	08/27/13 21:46
trans-1,3-Dichloropropene	U		11	32	µg/Kg-dry	1	08/27/13 21:46
Trichloroethene	150		15	32	µg/Kg-dry	1	08/27/13 21:46
Trichlorofluoromethane	U		8.9	32	µg/Kg-dry	1	08/27/13 21:46
Vinyl chloride	U		15	32	µg/Kg-dry	1	08/27/13 21:46
Xylenes, Total	53	J	38	97	µg/Kg-dry	1	08/27/13 21:46
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	08/27/13 21:46
Surr: 4-Bromofluorobenzene	99.9			70-130	%REC	1	08/27/13 21:46
Surr: Dibromofluoromethane	94.6			70-130	%REC	1	08/27/13 21:46
Surr: Toluene-d8	100			70-130	%REC	1	08/27/13 21:46
MOISTURE			A2540 G			Analyst: RLF	
BatchID: R125772							
Moisture	7.4		0.025	0.050	% of sample	1	08/27/13 08:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-096
Collection Date: 08/20/13 02:15 PM

Work Order: 1308936
Lab ID: 1308936-30
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/28/13	Analyst: LR
BatchID: <u>50875</u>							
Mercury	0.019	J	0.00077	0.038	mg/Kg-dry	1	08/29/13 12:48
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/26/13	Analyst: ML
BatchID: <u>50802</u>							
Antimony	0.40		0.0015	0.38	mg/Kg-dry	1	08/27/13 22:38
Arsenic	2.5		0.051	0.38	mg/Kg-dry	1	08/27/13 22:38
Barium	22		0.011	0.38	mg/Kg-dry	1	08/27/13 22:38
Beryllium	0.090	J	0.0030	0.15	mg/Kg-dry	1	08/27/13 22:38
Cadmium	0.12	J	0.0015	0.15	mg/Kg-dry	1	08/27/13 22:38
Chromium	32		0.062	0.38	mg/Kg-dry	1	08/27/13 22:38
Cobalt	2.6		0.0015	0.38	mg/Kg-dry	1	08/27/13 22:38
Copper	11		0.074	0.38	mg/Kg-dry	1	08/27/13 22:38
Iron	7,100		1.3	6.0	mg/Kg-dry	1	08/27/13 22:38
Lead	16		0.0015	0.38	mg/Kg-dry	1	08/27/13 22:38
Molybdenum	4.3		0.017	0.38	mg/Kg-dry	1	08/27/13 22:38
Nickel	16		0.038	0.38	mg/Kg-dry	1	08/27/13 22:38
Selenium	0.29	J	0.048	0.38	mg/Kg-dry	1	08/27/13 22:38
Silver	0.18	J	0.0015	0.38	mg/Kg-dry	1	08/27/13 22:38
Thallium	0.047	J	0.0091	0.38	mg/Kg-dry	1	08/27/13 22:38
Vanadium	10		0.023	0.38	mg/Kg-dry	1	08/27/13 22:38
Zinc	23		0.032	0.75	mg/Kg-dry	1	08/27/13 22:38
BatchID: <u>50802</u>							
Manganese	230		0.33	3.8	mg/Kg-dry	10	08/28/13 19:06
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/26/13	Analyst: HL
BatchID: <u>50822</u>							
2-Methylnaphthalene	U		100	840	µg/Kg-dry	10	08/27/13 21:01
Acenaphthene	U		96	320	µg/Kg-dry	10	08/27/13 21:01
Acenaphthylene	U		100	320	µg/Kg-dry	10	08/27/13 21:01
Anthracene	270	J	110	320	µg/Kg-dry	10	08/27/13 21:01
Benzo(a)anthracene	930		130	320	µg/Kg-dry	10	08/27/13 21:01
Benzo(a)pyrene	890		160	320	µg/Kg-dry	10	08/27/13 21:01
Benzo(b)fluoranthene	1,400		170	320	µg/Kg-dry	10	08/27/13 21:01
Benzo(g,h,i)perylene	490		250	320	µg/Kg-dry	10	08/27/13 21:01
Benzo(k)fluoranthene	480		140	320	µg/Kg-dry	10	08/27/13 21:01
Chrysene	880		120	320	µg/Kg-dry	10	08/27/13 21:01
Dibenzo(a,h)anthracene	U		180	320	µg/Kg-dry	10	08/27/13 21:01
Fluoranthene	1,700		130	320	µg/Kg-dry	10	08/27/13 21:01

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-096
Collection Date: 08/20/13 02:15 PM

Work Order: 1308936
Lab ID: 1308936-30
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		92	320	µg/Kg-dry	10	08/27/13 21:01
Indeno(1,2,3-cd)pyrene	530		200	320	µg/Kg-dry	10	08/27/13 21:01
Naphthalene	U		90	320	µg/Kg-dry	10	08/27/13 21:01
Phenanthrene	890		320	320	µg/Kg-dry	10	08/27/13 21:01
Pyrene	1,500		130	320	µg/Kg-dry	10	08/27/13 21:01
Surr: 2-Fluorobiphenyl	66.4			12-100	%REC	10	08/27/13 21:01
Surr: 4-Terphenyl-d14	103			25-137	%REC	10	08/27/13 21:01
Surr: Nitrobenzene-d5	49.0			37-107	%REC	10	08/27/13 21:01
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: BG
BatchID: 50821							
1,1,1-Trichloroethane	U		12	32	µg/Kg-dry	1	08/27/13 22:13
1,1,2,2-Tetrachloroethane	U		14	32	µg/Kg-dry	1	08/27/13 22:13
1,1,2-Trichloroethane	U		11	32	µg/Kg-dry	1	08/27/13 22:13
1,1,2-Trichlorotrifluoroethane	U		12	32	µg/Kg-dry	1	08/27/13 22:13
1,1-Dichloroethane	U		12	32	µg/Kg-dry	1	08/27/13 22:13
1,1-Dichloroethene	U		13	32	µg/Kg-dry	1	08/27/13 22:13
1,2,4-Trichlorobenzene	U		16	32	µg/Kg-dry	1	08/27/13 22:13
1,2-Dibromo-3-chloropropane	U		15	32	µg/Kg-dry	1	08/27/13 22:13
1,2-Dibromoethane	U		13	32	µg/Kg-dry	1	08/27/13 22:13
1,2-Dichlorobenzene	U		13	32	µg/Kg-dry	1	08/27/13 22:13
1,2-Dichloroethane	U		15	32	µg/Kg-dry	1	08/27/13 22:13
1,2-Dichloropropane	U		11	32	µg/Kg-dry	1	08/27/13 22:13
1,3-Dichlorobenzene	U		13	32	µg/Kg-dry	1	08/27/13 22:13
1,4-Dichlorobenzene	U		12	32	µg/Kg-dry	1	08/27/13 22:13
2-Butanone	U		79	210	µg/Kg-dry	1	08/27/13 22:13
2-Hexanone	U		7.8	32	µg/Kg-dry	1	08/27/13 22:13
4-Methyl-2-pentanone	U		11	32	µg/Kg-dry	1	08/27/13 22:13
Acetone	U		67	110	µg/Kg-dry	1	08/27/13 22:13
Benzene	U		13	32	µg/Kg-dry	1	08/27/13 22:13
Bromodichloromethane	U		7.1	32	µg/Kg-dry	1	08/27/13 22:13
Bromoform	U		6.3	32	µg/Kg-dry	1	08/27/13 22:13
Bromomethane	U		12	79	µg/Kg-dry	1	08/27/13 22:13
Carbon disulfide	U		16	32	µg/Kg-dry	1	08/27/13 22:13
Carbon tetrachloride	U		9.0	32	µg/Kg-dry	1	08/27/13 22:13
Chlorobenzene	U		13	32	µg/Kg-dry	1	08/27/13 22:13
Chloroethane	U		67	110	µg/Kg-dry	1	08/27/13 22:13
Chloroform	U		13	32	µg/Kg-dry	1	08/27/13 22:13
Chloromethane	U		18	110	µg/Kg-dry	1	08/27/13 22:13
cis-1,2-Dichloroethene	U		13	32	µg/Kg-dry	1	08/27/13 22:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-096
Collection Date: 08/20/13 02:15 PM

Work Order: 1308936
Lab ID: 1308936-30
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		11	32	µg/Kg-dry	1	08/27/13 22:13
Cyclohexane	U		14	32	µg/Kg-dry	1	08/27/13 22:13
Dibromochloromethane	U		5.9	32	µg/Kg-dry	1	08/27/13 22:13
Dichlorodifluoromethane	U		14	32	µg/Kg-dry	1	08/27/13 22:13
Ethylbenzene	U		12	32	µg/Kg-dry	1	08/27/13 22:13
Isopropylbenzene	U		14	32	µg/Kg-dry	1	08/27/13 22:13
Methyl acetate	U		43	210	µg/Kg-dry	1	08/27/13 22:13
Methyl tert-butyl ether	U		13	32	µg/Kg-dry	1	08/27/13 22:13
Methylcyclohexane	U		15	32	µg/Kg-dry	1	08/27/13 22:13
Methylene chloride	87	J	12	90	µg/Kg-dry	1	08/27/13 22:13
Styrene	U		12	32	µg/Kg-dry	1	08/27/13 22:13
Tetrachloroethene	U		14	32	µg/Kg-dry	1	08/27/13 22:13
Toluene	U		12	32	µg/Kg-dry	1	08/27/13 22:13
trans-1,2-Dichloroethene	U		9.8	32	µg/Kg-dry	1	08/27/13 22:13
trans-1,3-Dichloropropene	U		11	32	µg/Kg-dry	1	08/27/13 22:13
Trichloroethene	U		15	32	µg/Kg-dry	1	08/27/13 22:13
Trichlorofluoromethane	U		8.7	32	µg/Kg-dry	1	08/27/13 22:13
Vinyl chloride	U		14	32	µg/Kg-dry	1	08/27/13 22:13
Xylenes, Total	U		38	95	µg/Kg-dry	1	08/27/13 22:13
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	08/27/13 22:13
Surr: 4-Bromofluorobenzene	97.8			70-130	%REC	1	08/27/13 22:13
Surr: Dibromofluoromethane	96.0			70-130	%REC	1	08/27/13 22:13
Surr: Toluene-d8	100			70-130	%REC	1	08/27/13 22:13
MOISTURE			A2540 G			Analyst: RLF	
BatchID: R125772							
Moisture	5.6		0.025	0.050	% of sample	1	08/27/13 08:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-097
Collection Date: 08/20/13 02:20 PM

Work Order: 1308936
Lab ID: 1308936-31
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/28/13	Analyst: LR
<u>BatchID:</u> 50875							
Mercury	0.013	J	0.00072	0.036	mg/Kg-dry	1	08/29/13 12:50
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/27/13	Analyst: ML
<u>BatchID:</u> 50866							
Antimony	0.39		0.0015	0.37	mg/Kg-dry	1	08/28/13 16:57
Arsenic	2.4		0.050	0.37	mg/Kg-dry	1	08/28/13 16:57
Barium	19		0.010	0.37	mg/Kg-dry	1	08/28/13 16:57
Beryllium	0.10	J	0.0030	0.15	mg/Kg-dry	1	08/28/13 16:57
Cadmium	0.15		0.0015	0.15	mg/Kg-dry	1	08/28/13 16:57
Chromium	5.0		0.061	0.37	mg/Kg-dry	1	08/28/13 16:57
Cobalt	1.7		0.0015	0.37	mg/Kg-dry	1	08/28/13 16:57
Copper	20		0.072	0.37	mg/Kg-dry	1	08/28/13 16:57
Iron	4,700		1.2	5.9	mg/Kg-dry	1	08/28/13 16:57
Lead	40		0.0015	0.37	mg/Kg-dry	1	08/28/13 16:57
Manganese	110		0.033	0.37	mg/Kg-dry	1	08/28/13 16:57
Molybdenum	0.59		0.016	0.37	mg/Kg-dry	1	08/28/13 16:57
Nickel	12		0.037	0.37	mg/Kg-dry	1	08/28/13 16:57
Selenium	0.19	J	0.047	0.37	mg/Kg-dry	1	08/28/13 16:57
Silver	0.072	J	0.0015	0.37	mg/Kg-dry	1	08/28/13 16:57
Thallium	0.018	J	0.0089	0.37	mg/Kg-dry	1	08/28/13 16:57
Vanadium	7.4		0.022	0.37	mg/Kg-dry	1	08/28/13 16:57
Zinc	17		0.031	0.74	mg/Kg-dry	1	08/28/13 16:57
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/26/13	Analyst: HL
<u>BatchID:</u> 50822							
2-Methylnaphthalene	U		100	830	µg/Kg-dry	10	08/27/13 21:23
Acenaphthene	U		94	310	µg/Kg-dry	10	08/27/13 21:23
Acenaphthylene	U		98	310	µg/Kg-dry	10	08/27/13 21:23
Anthracene	U		110	310	µg/Kg-dry	10	08/27/13 21:23
Benzo(a)anthracene	480		130	310	µg/Kg-dry	10	08/27/13 21:23
Benzo(a)pyrene	350		160	310	µg/Kg-dry	10	08/27/13 21:23
Benzo(b)fluoranthene	690		170	310	µg/Kg-dry	10	08/27/13 21:23
Benzo(g,h,i)perylene	U		240	310	µg/Kg-dry	10	08/27/13 21:23
Benzo(k)fluoranthene	270	J	140	310	µg/Kg-dry	10	08/27/13 21:23
Chrysene	470		120	310	µg/Kg-dry	10	08/27/13 21:23
Dibenzo(a,h)anthracene	U		180	310	µg/Kg-dry	10	08/27/13 21:23
Fluoranthene	770		120	310	µg/Kg-dry	10	08/27/13 21:23
Fluorene	U		91	310	µg/Kg-dry	10	08/27/13 21:23

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-097
Collection Date: 08/20/13 02:20 PM

Work Order: 1308936
Lab ID: 1308936-31
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	240	J	200	310	µg/Kg-dry	10	08/27/13 21:23
Naphthalene	U		88	310	µg/Kg-dry	10	08/27/13 21:23
Phenanthrene	410		310	310	µg/Kg-dry	10	08/27/13 21:23
Pyrene	770		130	310	µg/Kg-dry	10	08/27/13 21:23
Surr: 2-Fluorobiphenyl	74.0			12-100	%REC	10	08/27/13 21:23
Surr: 4-Terphenyl-d14	110			25-137	%REC	10	08/27/13 21:23
Surr: Nitrobenzene-d5	54.6			37-107	%REC	10	08/27/13 21:23
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: AK
BatchID: 50821							
1,1,1-Trichloroethane	U		12	32	µg/Kg-dry	1	08/27/13 14:13
1,1,2,2-Tetrachloroethane	U		14	32	µg/Kg-dry	1	08/27/13 14:13
1,1,2-Trichloroethane	U		11	32	µg/Kg-dry	1	08/27/13 14:13
1,1,2-Trichlorotrifluoroethane	U		12	32	µg/Kg-dry	1	08/27/13 14:13
1,1-Dichloroethane	U		12	32	µg/Kg-dry	1	08/27/13 14:13
1,1-Dichloroethene	U		13	32	µg/Kg-dry	1	08/27/13 14:13
1,2,4-Trichlorobenzene	U		16	32	µg/Kg-dry	1	08/27/13 14:13
1,2-Dibromo-3-chloropropane	U		15	32	µg/Kg-dry	1	08/27/13 14:13
1,2-Dibromoethane	U		13	32	µg/Kg-dry	1	08/27/13 14:13
1,2-Dichlorobenzene	U		13	32	µg/Kg-dry	1	08/27/13 14:13
1,2-Dichloroethane	U		15	32	µg/Kg-dry	1	08/27/13 14:13
1,2-Dichloropropane	U		11	32	µg/Kg-dry	1	08/27/13 14:13
1,3-Dichlorobenzene	U		13	32	µg/Kg-dry	1	08/27/13 14:13
1,4-Dichlorobenzene	U		12	32	µg/Kg-dry	1	08/27/13 14:13
2-Butanone	U		79	210	µg/Kg-dry	1	08/27/13 14:13
2-Hexanone	U		7.8	32	µg/Kg-dry	1	08/27/13 14:13
4-Methyl-2-pentanone	U		11	32	µg/Kg-dry	1	08/27/13 14:13
Acetone	U		67	110	µg/Kg-dry	1	08/27/13 14:13
Benzene	U		13	32	µg/Kg-dry	1	08/27/13 14:13
Bromodichloromethane	U		7.1	32	µg/Kg-dry	1	08/27/13 14:13
Bromoform	U		6.3	32	µg/Kg-dry	1	08/27/13 14:13
Bromomethane	U		12	79	µg/Kg-dry	1	08/27/13 14:13
Carbon disulfide	U		16	32	µg/Kg-dry	1	08/27/13 14:13
Carbon tetrachloride	U		9.0	32	µg/Kg-dry	1	08/27/13 14:13
Chlorobenzene	U		13	32	µg/Kg-dry	1	08/27/13 14:13
Chloroethane	U		67	110	µg/Kg-dry	1	08/27/13 14:13
Chloroform	U		13	32	µg/Kg-dry	1	08/27/13 14:13
Chloromethane	U		18	110	µg/Kg-dry	1	08/27/13 14:13
cis-1,2-Dichloroethene	U		13	32	µg/Kg-dry	1	08/27/13 14:13
cis-1,3-Dichloropropene	U		11	32	µg/Kg-dry	1	08/27/13 14:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-097
Collection Date: 08/20/13 02:20 PM

Work Order: 1308936
Lab ID: 1308936-31
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		14	32	µg/Kg-dry	1	08/27/13 14:13
Dibromochloromethane	U		5.9	32	µg/Kg-dry	1	08/27/13 14:13
Dichlorodifluoromethane	U		14	32	µg/Kg-dry	1	08/27/13 14:13
Ethylbenzene	U		12	32	µg/Kg-dry	1	08/27/13 14:13
Isopropylbenzene	U		14	32	µg/Kg-dry	1	08/27/13 14:13
Methyl acetate	U		43	210	µg/Kg-dry	1	08/27/13 14:13
Methyl tert-butyl ether	U		13	32	µg/Kg-dry	1	08/27/13 14:13
Methylcyclohexane	U		15	32	µg/Kg-dry	1	08/27/13 14:13
Methylene chloride	83	J	12	85	µg/Kg-dry	1	08/27/13 14:13
Styrene	U		12	32	µg/Kg-dry	1	08/27/13 14:13
Tetrachloroethene	U		14	32	µg/Kg-dry	1	08/27/13 14:13
Toluene	U		12	32	µg/Kg-dry	1	08/27/13 14:13
trans-1,2-Dichloroethene	U		9.8	32	µg/Kg-dry	1	08/27/13 14:13
trans-1,3-Dichloropropene	U		11	32	µg/Kg-dry	1	08/27/13 14:13
Trichloroethene	160		15	32	µg/Kg-dry	1	08/27/13 14:13
Trichlorofluoromethane	U		8.7	32	µg/Kg-dry	1	08/27/13 14:13
Vinyl chloride	U		14	32	µg/Kg-dry	1	08/27/13 14:13
Xylenes, Total	U		37	95	µg/Kg-dry	1	08/27/13 14:13
Surr: 1,2-Dichloroethane-d4	95.6			70-130	%REC	1	08/27/13 14:13
Surr: 4-Bromofluorobenzene	101			70-130	%REC	1	08/27/13 14:13
Surr: Dibromofluoromethane	95.6			70-130	%REC	1	08/27/13 14:13
Surr: Toluene-d8	96.0			70-130	%REC	1	08/27/13 14:13
MOISTURE			A2540 G				Analyst: RLF
BatchID: <u>R125772</u>							
Moisture	5.3		0.025	0.050	% of sample	1	08/27/13 08:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-098
Collection Date: 08/20/13 02:25 PM

Work Order: 1308936
Lab ID: 1308936-32
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471			Prep: SW7471 / 8/28/13	Analyst: LR
BatchID: <u>50875</u>							
Mercury	0.065		0.00074	0.037	mg/Kg-dry	1	08/29/13 12:52
METALS BY ICP-MS			SW6020A			Prep: SW3050B / 8/27/13	Analyst: ML
BatchID: <u>50866</u>							
Antimony	0.15	J	0.0015	0.37	mg/Kg-dry	1	08/28/13 17:03
Arsenic	2.0		0.050	0.37	mg/Kg-dry	1	08/28/13 17:03
Barium	20		0.010	0.37	mg/Kg-dry	1	08/28/13 17:03
Beryllium	0.12	J	0.0030	0.15	mg/Kg-dry	1	08/28/13 17:03
Cadmium	0.068	J	0.0015	0.15	mg/Kg-dry	1	08/28/13 17:03
Chromium	4.9		0.061	0.37	mg/Kg-dry	1	08/28/13 17:03
Cobalt	1.8		0.0015	0.37	mg/Kg-dry	1	08/28/13 17:03
Copper	4.5		0.073	0.37	mg/Kg-dry	1	08/28/13 17:03
Iron	6,700		1.2	5.9	mg/Kg-dry	1	08/28/13 17:03
Lead	8.2		0.0015	0.37	mg/Kg-dry	1	08/28/13 17:03
Manganese	130		0.033	0.37	mg/Kg-dry	1	08/28/13 17:03
Molybdenum	0.41		0.016	0.37	mg/Kg-dry	1	08/28/13 17:03
Nickel	4.3		0.037	0.37	mg/Kg-dry	1	08/28/13 17:03
Selenium	0.34	J	0.047	0.37	mg/Kg-dry	1	08/28/13 17:03
Silver	0.0034	J	0.0015	0.37	mg/Kg-dry	1	08/28/13 17:03
Thallium	0.038	J	0.0089	0.37	mg/Kg-dry	1	08/28/13 17:03
Vanadium	9.1		0.022	0.37	mg/Kg-dry	1	08/28/13 17:03
Zinc	15		0.031	0.74	mg/Kg-dry	1	08/28/13 17:03
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3541 / 8/26/13	Analyst: HL
BatchID: <u>50822</u>							
2-Methylnaphthalene	730	J	100	840	µg/Kg-dry	10	08/27/13 21:45
Acenaphthene	U		96	310	µg/Kg-dry	10	08/27/13 21:45
Acenaphthylene	U		99	310	µg/Kg-dry	10	08/27/13 21:45
Anthracene	250	J	110	310	µg/Kg-dry	10	08/27/13 21:45
Benzo(a)anthracene	660		130	310	µg/Kg-dry	10	08/27/13 21:45
Benzo(a)pyrene	560		160	310	µg/Kg-dry	10	08/27/13 21:45
Benzo(b)fluoranthene	2,300		170	310	µg/Kg-dry	10	08/27/13 21:45
Benzo(g,h,i)perylene	750		250	310	µg/Kg-dry	10	08/27/13 21:45
Benzo(k)fluoranthene	570		140	310	µg/Kg-dry	10	08/27/13 21:45
Chrysene	890		120	310	µg/Kg-dry	10	08/27/13 21:45
Dibenzo(a,h)anthracene	230	J	180	310	µg/Kg-dry	10	08/27/13 21:45
Fluoranthene	870		120	310	µg/Kg-dry	10	08/27/13 21:45
Fluorene	U		92	310	µg/Kg-dry	10	08/27/13 21:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-098
Collection Date: 08/20/13 02:25 PM

Work Order: 1308936
Lab ID: 1308936-32
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	970		200	310	µg/Kg-dry	10	08/27/13 21:45
Naphthalene	670		89	310	µg/Kg-dry	10	08/27/13 21:45
Phenanthrene	660		310	310	µg/Kg-dry	10	08/27/13 21:45
Pyrene	850		130	310	µg/Kg-dry	10	08/27/13 21:45
Surr: 2-Fluorobiphenyl	70.0			12-100	%REC	10	08/27/13 21:45
Surr: 4-Terphenyl-d14	99.4			25-137	%REC	10	08/27/13 21:45
Surr: Nitrobenzene-d5	45.8			37-107	%REC	10	08/27/13 21:45
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: AK
<u>BatchID: 50821</u>							
1,1,1-Trichloroethane	U		13	34	µg/Kg-dry	1	08/27/13 14:38
1,1,2,2-Tetrachloroethane	U		15	34	µg/Kg-dry	1	08/27/13 14:38
1,1,2-Trichloroethane	U		12	34	µg/Kg-dry	1	08/27/13 14:38
1,1,2-Trichlorotrifluoroethane	U		12	34	µg/Kg-dry	1	08/27/13 14:38
1,1-Dichloroethane	U		12	34	µg/Kg-dry	1	08/27/13 14:38
1,1-Dichloroethene	U		14	34	µg/Kg-dry	1	08/27/13 14:38
1,2,4-Trichlorobenzene	U		17	34	µg/Kg-dry	1	08/27/13 14:38
1,2-Dibromo-3-chloropropane	U		16	34	µg/Kg-dry	1	08/27/13 14:38
1,2-Dibromoethane	U		13	34	µg/Kg-dry	1	08/27/13 14:38
1,2-Dichlorobenzene	U		13	34	µg/Kg-dry	1	08/27/13 14:38
1,2-Dichloroethane	U		16	34	µg/Kg-dry	1	08/27/13 14:38
1,2-Dichloropropane	U		11	34	µg/Kg-dry	1	08/27/13 14:38
1,3-Dichlorobenzene	U		13	34	µg/Kg-dry	1	08/27/13 14:38
1,4-Dichlorobenzene	U		13	34	µg/Kg-dry	1	08/27/13 14:38
2-Butanone	U		83	220	µg/Kg-dry	1	08/27/13 14:38
2-Hexanone	U		8.2	34	µg/Kg-dry	1	08/27/13 14:38
4-Methyl-2-pentanone	U		11	34	µg/Kg-dry	1	08/27/13 14:38
Acetone	U		71	110	µg/Kg-dry	1	08/27/13 14:38
Benzene	U		13	34	µg/Kg-dry	1	08/27/13 14:38
Bromodichloromethane	U		7.5	34	µg/Kg-dry	1	08/27/13 14:38
Bromoform	U		6.6	34	µg/Kg-dry	1	08/27/13 14:38
Bromomethane	U		13	84	µg/Kg-dry	1	08/27/13 14:38
Carbon disulfide	U		17	34	µg/Kg-dry	1	08/27/13 14:38
Carbon tetrachloride	U		9.5	34	µg/Kg-dry	1	08/27/13 14:38
Chlorobenzene	U		14	34	µg/Kg-dry	1	08/27/13 14:38
Chloroethane	U		71	110	µg/Kg-dry	1	08/27/13 14:38
Chloroform	U		14	34	µg/Kg-dry	1	08/27/13 14:38
Chloromethane	U		19	110	µg/Kg-dry	1	08/27/13 14:38
cis-1,2-Dichloroethene	U		14	34	µg/Kg-dry	1	08/27/13 14:38
cis-1,3-Dichloropropene	U		11	34	µg/Kg-dry	1	08/27/13 14:38

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-098
Collection Date: 08/20/13 02:25 PM

Work Order: 1308936
Lab ID: 1308936-32
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		15	34	µg/Kg-dry	1	08/27/13 14:38
Dibromochloromethane	U		6.2	34	µg/Kg-dry	1	08/27/13 14:38
Dichlorodifluoromethane	U		15	34	µg/Kg-dry	1	08/27/13 14:38
Ethylbenzene	U		12	34	µg/Kg-dry	1	08/27/13 14:38
Isopropylbenzene	U		14	34	µg/Kg-dry	1	08/27/13 14:38
Methyl acetate	U		45	220	µg/Kg-dry	1	08/27/13 14:38
Methyl tert-butyl ether	U		14	34	µg/Kg-dry	1	08/27/13 14:38
Methylcyclohexane	U		16	34	µg/Kg-dry	1	08/27/13 14:38
Methylene chloride	70	J	13	73	µg/Kg-dry	1	08/27/13 14:38
Styrene	U		12	34	µg/Kg-dry	1	08/27/13 14:38
Tetrachloroethene	U		15	34	µg/Kg-dry	1	08/27/13 14:38
Toluene	21	J	13	34	µg/Kg-dry	1	08/27/13 14:38
trans-1,2-Dichloroethene	U		10	34	µg/Kg-dry	1	08/27/13 14:38
trans-1,3-Dichloropropene	U		11	34	µg/Kg-dry	1	08/27/13 14:38
Trichloroethene	560		16	34	µg/Kg-dry	1	08/27/13 14:38
Trichlorofluoromethane	U		9.2	34	µg/Kg-dry	1	08/27/13 14:38
Vinyl chloride	U		15	34	µg/Kg-dry	1	08/27/13 14:38
Xylenes, Total	57	J	40	100	µg/Kg-dry	1	08/27/13 14:38
Surr: 1,2-Dichloroethane-d4	96.9			70-130	%REC	1	08/27/13 14:38
Surr: 4-Bromofluorobenzene	103			70-130	%REC	1	08/27/13 14:38
Surr: Dibromofluoromethane	95.1			70-130	%REC	1	08/27/13 14:38
Surr: Toluene-d8	93.7			70-130	%REC	1	08/27/13 14:38
MOISTURE			A2540 G				Analyst: RLF
BatchID: R125772							
Moisture	6.0		0.025	0.050	% of sample	1	08/27/13 08:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-099
Collection Date: 08/20/13 02:30 PM

Work Order: 1308936
Lab ID: 1308936-33
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/29/13	Analyst: LR
BatchID: <u>50891</u>							
Mercury	0.036	J	0.00084	0.042	mg/Kg-dry	1	08/30/13 09:03
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/27/13	Analyst: ML
BatchID: <u>50866</u>							
Antimony	0.15	J	0.0016	0.39	mg/Kg-dry	1	08/28/13 17:22
Arsenic	1.8		0.053	0.39	mg/Kg-dry	1	08/28/13 17:22
Barium	20		0.011	0.39	mg/Kg-dry	1	08/28/13 17:22
Beryllium	0.11	J	0.0031	0.16	mg/Kg-dry	1	08/28/13 17:22
Cadmium	0.094	J	0.0016	0.16	mg/Kg-dry	1	08/28/13 17:22
Chromium	6.2		0.064	0.39	mg/Kg-dry	1	08/28/13 17:22
Cobalt	2.3		0.0016	0.39	mg/Kg-dry	1	08/28/13 17:22
Copper	6.1		0.076	0.39	mg/Kg-dry	1	08/28/13 17:22
Iron	5,700		1.3	6.2	mg/Kg-dry	1	08/28/13 17:22
Lead	17		0.0016	0.39	mg/Kg-dry	1	08/28/13 17:22
Molybdenum	0.35	J	0.017	0.39	mg/Kg-dry	1	08/28/13 17:22
Nickel	5.5		0.039	0.39	mg/Kg-dry	1	08/28/13 17:22
Selenium	0.39	J	0.050	0.39	mg/Kg-dry	1	08/28/13 17:22
Silver	0.0065	J	0.0016	0.39	mg/Kg-dry	1	08/28/13 17:22
Thallium	0.012	J	0.0093	0.39	mg/Kg-dry	1	08/28/13 17:22
Vanadium	9.1		0.023	0.39	mg/Kg-dry	1	08/28/13 17:22
Zinc	16		0.033	0.78	mg/Kg-dry	1	08/28/13 17:22
BatchID: <u>50866</u>							
Manganese	180		0.34	3.9	mg/Kg-dry	10	08/29/13 06:55
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/26/13	Analyst: HL
BatchID: <u>50822</u>							
2-Methylnaphthalene	U		11	87	µg/Kg-dry	1	08/27/13 19:34
Acenaphthene	U		9.9	32	µg/Kg-dry	1	08/27/13 19:34
Acenaphthylene	U		10	32	µg/Kg-dry	1	08/27/13 19:34
Anthracene	U		11	32	µg/Kg-dry	1	08/27/13 19:34
Benzo(a)anthracene	44		13	32	µg/Kg-dry	1	08/27/13 19:34
Benzo(a)pyrene	37		17	32	µg/Kg-dry	1	08/27/13 19:34
Benzo(b)fluoranthene	58		17	32	µg/Kg-dry	1	08/27/13 19:34
Benzo(g,h,i)perylene	U		25	32	µg/Kg-dry	1	08/27/13 19:34
Benzo(k)fluoranthene	U		15	32	µg/Kg-dry	1	08/27/13 19:34
Chrysene	39		12	32	µg/Kg-dry	1	08/27/13 19:34
Dibenzo(a,h)anthracene	U		18	32	µg/Kg-dry	1	08/27/13 19:34
Fluoranthene	64		13	32	µg/Kg-dry	1	08/27/13 19:34

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-099
Collection Date: 08/20/13 02:30 PM

Work Order: 1308936
Lab ID: 1308936-33
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		9.5	32	µg/Kg-dry	1	08/27/13 19:34
Indeno(1,2,3-cd)pyrene	21	J	20	32	µg/Kg-dry	1	08/27/13 19:34
Naphthalene	U		9.2	32	µg/Kg-dry	1	08/27/13 19:34
Phenanthrene	33		32	32	µg/Kg-dry	1	08/27/13 19:34
Pyrene	72		13	32	µg/Kg-dry	1	08/27/13 19:34
Surr: 2-Fluorobiphenyl	74.5			12-100	%REC	1	08/27/13 19:34
Surr: 4-Terphenyl-d14	122			25-137	%REC	1	08/27/13 19:34
Surr: Nitrobenzene-d5	57.3			37-107	%REC	1	08/27/13 19:34
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: BG
BatchID: 50821							
1,1,1-Trichloroethane	U		16	42	µg/Kg-dry	1	08/27/13 22:40
1,1,2,2-Tetrachloroethane	U		19	42	µg/Kg-dry	1	08/27/13 22:40
1,1,2-Trichloroethane	U		15	42	µg/Kg-dry	1	08/27/13 22:40
1,1,2-Trichlorotrifluoroethane	U		16	42	µg/Kg-dry	1	08/27/13 22:40
1,1-Dichloroethane	U		15	42	µg/Kg-dry	1	08/27/13 22:40
1,1-Dichloroethene	U		18	42	µg/Kg-dry	1	08/27/13 22:40
1,2,4-Trichlorobenzene	U		22	42	µg/Kg-dry	1	08/27/13 22:40
1,2-Dibromo-3-chloropropane	U		20	42	µg/Kg-dry	1	08/27/13 22:40
1,2-Dibromoethane	U		17	42	µg/Kg-dry	1	08/27/13 22:40
1,2-Dichlorobenzene	U		17	42	µg/Kg-dry	1	08/27/13 22:40
1,2-Dichloroethane	U		20	42	µg/Kg-dry	1	08/27/13 22:40
1,2-Dichloropropane	U		14	42	µg/Kg-dry	1	08/27/13 22:40
1,3-Dichlorobenzene	U		17	42	µg/Kg-dry	1	08/27/13 22:40
1,4-Dichlorobenzene	U		16	42	µg/Kg-dry	1	08/27/13 22:40
2-Butanone	110	J	100	280	µg/Kg-dry	1	08/27/13 22:40
2-Hexanone	U		10	42	µg/Kg-dry	1	08/27/13 22:40
4-Methyl-2-pentanone	U		14	42	µg/Kg-dry	1	08/27/13 22:40
Acetone	480		89	140	µg/Kg-dry	1	08/27/13 22:40
Benzene	U		17	42	µg/Kg-dry	1	08/27/13 22:40
Bromodichloromethane	U		9.4	42	µg/Kg-dry	1	08/27/13 22:40
Bromoform	U		8.3	42	µg/Kg-dry	1	08/27/13 22:40
Bromomethane	U		16	110	µg/Kg-dry	1	08/27/13 22:40
Carbon disulfide	U		21	42	µg/Kg-dry	1	08/27/13 22:40
Carbon tetrachloride	U		12	42	µg/Kg-dry	1	08/27/13 22:40
Chlorobenzene	U		17	42	µg/Kg-dry	1	08/27/13 22:40
Chloroethane	U		89	140	µg/Kg-dry	1	08/27/13 22:40
Chloroform	U		17	42	µg/Kg-dry	1	08/27/13 22:40
Chloromethane	U		23	140	µg/Kg-dry	1	08/27/13 22:40
cis-1,2-Dichloroethene	U		17	42	µg/Kg-dry	1	08/27/13 22:40

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-099
Collection Date: 08/20/13 02:30 PM

Work Order: 1308936
Lab ID: 1308936-33
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		14	42	µg/Kg-dry	1	08/27/13 22:40
Cyclohexane	U		19	42	µg/Kg-dry	1	08/27/13 22:40
Dibromochloromethane	U		7.8	42	µg/Kg-dry	1	08/27/13 22:40
Dichlorodifluoromethane	U		19	42	µg/Kg-dry	1	08/27/13 22:40
Ethylbenzene	U		16	42	µg/Kg-dry	1	08/27/13 22:40
Isopropylbenzene	U		18	42	µg/Kg-dry	1	08/27/13 22:40
Methyl acetate	U		56	280	µg/Kg-dry	1	08/27/13 22:40
Methyl tert-butyl ether	U		18	42	µg/Kg-dry	1	08/27/13 22:40
Methylcyclohexane	U		20	42	µg/Kg-dry	1	08/27/13 22:40
Methylene chloride	110	J	16	120	µg/Kg-dry	1	08/27/13 22:40
Styrene	U		16	42	µg/Kg-dry	1	08/27/13 22:40
Tetrachloroethene	U		19	42	µg/Kg-dry	1	08/27/13 22:40
Toluene	U		16	42	µg/Kg-dry	1	08/27/13 22:40
trans-1,2-Dichloroethene	U		13	42	µg/Kg-dry	1	08/27/13 22:40
trans-1,3-Dichloropropene	U		14	42	µg/Kg-dry	1	08/27/13 22:40
Trichloroethene	U		20	42	µg/Kg-dry	1	08/27/13 22:40
Trichlorofluoromethane	U		12	42	µg/Kg-dry	1	08/27/13 22:40
Vinyl chloride	U		19	42	µg/Kg-dry	1	08/27/13 22:40
Xylenes, Total	U		50	130	µg/Kg-dry	1	08/27/13 22:40
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	08/27/13 22:40
Surr: 4-Bromofluorobenzene	100			70-130	%REC	1	08/27/13 22:40
Surr: Dibromofluoromethane	94.4			70-130	%REC	1	08/27/13 22:40
Surr: Toluene-d8	102			70-130	%REC	1	08/27/13 22:40
MOISTURE			A2540 G				Analyst: RLF
BatchID: R125772							
Moisture	9.9		0.025	0.050	% of sample	1	08/27/13 08:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-100
Collection Date: 08/20/13 03:05 PM

Work Order: 1308936
Lab ID: 1308936-34
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/29/13	Analyst: LR
BatchID: <u>50891</u>							
Mercury	0.014	J	0.00090	0.045	mg/Kg-dry	1	08/30/13 09:06
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/27/13	Analyst: ML
BatchID: <u>50866</u>							
Antimony	1.2		0.0015	0.38	mg/Kg-dry	1	08/28/13 17:28
Arsenic	2.6		0.051	0.38	mg/Kg-dry	1	08/28/13 17:28
Barium	38		0.011	0.38	mg/Kg-dry	1	08/28/13 17:28
Beryllium	0.099	J	0.0030	0.15	mg/Kg-dry	1	08/28/13 17:28
Cadmium	0.19		0.0015	0.15	mg/Kg-dry	1	08/28/13 17:28
Chromium	13		0.062	0.38	mg/Kg-dry	1	08/28/13 17:28
Cobalt	3.0		0.0015	0.38	mg/Kg-dry	1	08/28/13 17:28
Copper	16		0.074	0.38	mg/Kg-dry	1	08/28/13 17:28
Iron	7,400		1.3	6.0	mg/Kg-dry	1	08/28/13 17:28
Lead	50		0.0015	0.38	mg/Kg-dry	1	08/28/13 17:28
Molybdenum	4.9		0.017	0.38	mg/Kg-dry	1	08/28/13 17:28
Nickel	8.9		0.038	0.38	mg/Kg-dry	1	08/28/13 17:28
Selenium	0.29	J	0.048	0.38	mg/Kg-dry	1	08/28/13 17:28
Silver	0.084	J	0.0015	0.38	mg/Kg-dry	1	08/28/13 17:28
Thallium	0.013	J	0.0090	0.38	mg/Kg-dry	1	08/28/13 17:28
Vanadium	11		0.023	0.38	mg/Kg-dry	1	08/28/13 17:28
Zinc	26		0.032	0.75	mg/Kg-dry	1	08/28/13 17:28
BatchID: <u>50866</u>							
Manganese	150		0.33	3.8	mg/Kg-dry	10	08/29/13 07:01
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/27/13	Analyst: HL
BatchID: <u>50831</u>							
2-Methylnaphthalene	U		100	820	µg/Kg-dry	10	08/27/13 22:06
Acenaphthene	310		94	310	µg/Kg-dry	10	08/27/13 22:06
Acenaphthylene	U		97	310	µg/Kg-dry	10	08/27/13 22:06
Anthracene	410		100	310	µg/Kg-dry	10	08/27/13 22:06
Benzo(a)anthracene	980		130	310	µg/Kg-dry	10	08/27/13 22:06
Benzo(a)pyrene	670		160	310	µg/Kg-dry	10	08/27/13 22:06
Benzo(b)fluoranthene	1,100		170	310	µg/Kg-dry	10	08/27/13 22:06
Benzo(g,h,i)perylene	420		240	310	µg/Kg-dry	10	08/27/13 22:06
Benzo(k)fluoranthene	370		140	310	µg/Kg-dry	10	08/27/13 22:06
Chrysene	940		120	310	µg/Kg-dry	10	08/27/13 22:06
Dibenzo(a,h)anthracene	U		180	310	µg/Kg-dry	10	08/27/13 22:06
Fluoranthene	2,700		120	310	µg/Kg-dry	10	08/27/13 22:06

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-100
Collection Date: 08/20/13 03:05 PM

Work Order: 1308936
Lab ID: 1308936-34
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	180	J	90	310	µg/Kg-dry	10	08/27/13 22:06
Indeno(1,2,3-cd)pyrene	440		200	310	µg/Kg-dry	10	08/27/13 22:06
Naphthalene	U		88	310	µg/Kg-dry	10	08/27/13 22:06
Phenanthrene	2,600		310	310	µg/Kg-dry	10	08/27/13 22:06
Pyrene	2,200		130	310	µg/Kg-dry	10	08/27/13 22:06
Surr: 2-Fluorobiphenyl	67.4			12-100	%REC	10	08/27/13 22:06
Surr: 4-Terphenyl-d14	96.2			25-137	%REC	10	08/27/13 22:06
Surr: Nitrobenzene-d5	51.4			37-107	%REC	10	08/27/13 22:06
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: BG
BatchID: 50821							
1,1,1-Trichloroethane	U		14	36	µg/Kg-dry	1	08/27/13 23:06
1,1,2,2-Tetrachloroethane	U		16	36	µg/Kg-dry	1	08/27/13 23:06
1,1,2-Trichloroethane	U		13	36	µg/Kg-dry	1	08/27/13 23:06
1,1,2-Trichlorotrifluoroethane	U		13	36	µg/Kg-dry	1	08/27/13 23:06
1,1-Dichloroethane	U		13	36	µg/Kg-dry	1	08/27/13 23:06
1,1-Dichloroethene	U		15	36	µg/Kg-dry	1	08/27/13 23:06
1,2,4-Trichlorobenzene	U		18	36	µg/Kg-dry	1	08/27/13 23:06
1,2-Dibromo-3-chloropropane	U		17	36	µg/Kg-dry	1	08/27/13 23:06
1,2-Dibromoethane	U		14	36	µg/Kg-dry	1	08/27/13 23:06
1,2-Dichlorobenzene	U		14	36	µg/Kg-dry	1	08/27/13 23:06
1,2-Dichloroethane	U		17	36	µg/Kg-dry	1	08/27/13 23:06
1,2-Dichloropropane	U		12	36	µg/Kg-dry	1	08/27/13 23:06
1,3-Dichlorobenzene	U		14	36	µg/Kg-dry	1	08/27/13 23:06
1,4-Dichlorobenzene	U		14	36	µg/Kg-dry	1	08/27/13 23:06
2-Butanone	100	J	88	240	µg/Kg-dry	1	08/27/13 23:06
2-Hexanone	U		8.7	36	µg/Kg-dry	1	08/27/13 23:06
4-Methyl-2-pentanone	U		12	36	µg/Kg-dry	1	08/27/13 23:06
Acetone	140		75	120	µg/Kg-dry	1	08/27/13 23:06
Benzene	U		14	36	µg/Kg-dry	1	08/27/13 23:06
Bromodichloromethane	U		8.0	36	µg/Kg-dry	1	08/27/13 23:06
Bromoform	U		7.0	36	µg/Kg-dry	1	08/27/13 23:06
Bromomethane	U		14	89	µg/Kg-dry	1	08/27/13 23:06
Carbon disulfide	U		18	36	µg/Kg-dry	1	08/27/13 23:06
Carbon tetrachloride	U		10	36	µg/Kg-dry	1	08/27/13 23:06
Chlorobenzene	U		15	36	µg/Kg-dry	1	08/27/13 23:06
Chloroethane	U		76	120	µg/Kg-dry	1	08/27/13 23:06
Chloroform	U		15	36	µg/Kg-dry	1	08/27/13 23:06
Chloromethane	U		20	120	µg/Kg-dry	1	08/27/13 23:06
cis-1,2-Dichloroethene	U		14	36	µg/Kg-dry	1	08/27/13 23:06

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-100
Collection Date: 08/20/13 03:05 PM

Work Order: 1308936
Lab ID: 1308936-34
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		12	36	µg/Kg-dry	1	08/27/13 23:06
Cyclohexane	46		16	36	µg/Kg-dry	1	08/27/13 23:06
Dibromochloromethane	U		6.6	36	µg/Kg-dry	1	08/27/13 23:06
Dichlorodifluoromethane	U		16	36	µg/Kg-dry	1	08/27/13 23:06
Ethylbenzene	15	J	13	36	µg/Kg-dry	1	08/27/13 23:06
Isopropylbenzene	U		15	36	µg/Kg-dry	1	08/27/13 23:06
Methyl acetate	73	J	48	240	µg/Kg-dry	1	08/27/13 23:06
Methyl tert-butyl ether	U		15	36	µg/Kg-dry	1	08/27/13 23:06
Methylcyclohexane	210		17	36	µg/Kg-dry	1	08/27/13 23:06
Methylene chloride	84	J	14	89	µg/Kg-dry	1	08/27/13 23:06
Styrene	U		13	36	µg/Kg-dry	1	08/27/13 23:06
Tetrachloroethene	U		16	36	µg/Kg-dry	1	08/27/13 23:06
Toluene	78		13	36	µg/Kg-dry	1	08/27/13 23:06
trans-1,2-Dichloroethene	U		11	36	µg/Kg-dry	1	08/27/13 23:06
trans-1,3-Dichloropropene	U		12	36	µg/Kg-dry	1	08/27/13 23:06
Trichloroethene	1,300		17	36	µg/Kg-dry	1	08/27/13 23:06
Trichlorofluoromethane	U		9.8	36	µg/Kg-dry	1	08/27/13 23:06
Vinyl chloride	U		16	36	µg/Kg-dry	1	08/27/13 23:06
Xylenes, Total	170		42	110	µg/Kg-dry	1	08/27/13 23:06
Surr: 1,2-Dichloroethane-d4	103			70-130	%REC	1	08/27/13 23:06
Surr: 4-Bromofluorobenzene	99.0			70-130	%REC	1	08/27/13 23:06
Surr: Dibromofluoromethane	94.7			70-130	%REC	1	08/27/13 23:06
Surr: Toluene-d8	101			70-130	%REC	1	08/27/13 23:06
MOISTURE			A2540 G			Analyst: RLF	
BatchID: R125772							
Moisture	5.5		0.025	0.050	% of sample	1	08/27/13 08:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-101
Collection Date: 08/20/13 03:10 PM

Work Order: 1308936
Lab ID: 1308936-35
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/29/13	Analyst: LR
BatchID: <u>50891</u>							
Mercury	0.0048	J	0.00068	0.034	mg/Kg-dry	1	08/30/13 09:14
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/27/13	Analyst: ML
BatchID: <u>50866</u>							
Antimony	0.092	J	0.0014	0.36	mg/Kg-dry	1	08/28/13 17:34
Arsenic	0.88		0.049	0.36	mg/Kg-dry	1	08/28/13 17:34
Barium	6.3		0.010	0.36	mg/Kg-dry	1	08/28/13 17:34
Beryllium	0.041	J	0.0029	0.14	mg/Kg-dry	1	08/28/13 17:34
Cadmium	0.033	J	0.0014	0.14	mg/Kg-dry	1	08/28/13 17:34
Chromium	3.3		0.059	0.36	mg/Kg-dry	1	08/28/13 17:34
Cobalt	0.93		0.0014	0.36	mg/Kg-dry	1	08/28/13 17:34
Copper	3.1		0.071	0.36	mg/Kg-dry	1	08/28/13 17:34
Iron	2,400		1.2	5.8	mg/Kg-dry	1	08/28/13 17:34
Lead	3.3		0.0014	0.36	mg/Kg-dry	1	08/28/13 17:34
Manganese	56		0.032	0.36	mg/Kg-dry	1	08/28/13 17:34
Molybdenum	0.58		0.016	0.36	mg/Kg-dry	1	08/28/13 17:34
Nickel	3.8		0.036	0.36	mg/Kg-dry	1	08/28/13 17:34
Selenium	0.19	J	0.046	0.36	mg/Kg-dry	1	08/28/13 17:34
Silver	0.022	J	0.0014	0.36	mg/Kg-dry	1	08/28/13 17:34
Thallium	U		0.0087	0.36	mg/Kg-dry	1	08/28/13 17:34
Vanadium	3.6		0.022	0.36	mg/Kg-dry	1	08/28/13 17:34
Zinc	8.0		0.030	0.72	mg/Kg-dry	1	08/28/13 17:34
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/27/13	Analyst: HL
BatchID: <u>50831</u>							
2-Methylnaphthalene	U		10	82	µg/Kg-dry	1	08/27/13 15:53
Acenaphthene	49		9.4	31	µg/Kg-dry	1	08/27/13 15:53
Acenaphthylene	U		9.7	31	µg/Kg-dry	1	08/27/13 15:53
Anthracene	140		10	31	µg/Kg-dry	1	08/27/13 15:53
Benzo(a)anthracene	310		13	31	µg/Kg-dry	1	08/27/13 15:53
Benzo(a)pyrene	250		16	31	µg/Kg-dry	1	08/27/13 15:53
Benzo(b)fluoranthene	380		17	31	µg/Kg-dry	1	08/27/13 15:53
Benzo(g,h,i)perylene	230		24	31	µg/Kg-dry	1	08/27/13 15:53
Benzo(k)fluoranthene	120		14	31	µg/Kg-dry	1	08/27/13 15:53
Chrysene	290		12	31	µg/Kg-dry	1	08/27/13 15:53
Dibenzo(a,h)anthracene	52		18	31	µg/Kg-dry	1	08/27/13 15:53
Fluoranthene	780		12	31	µg/Kg-dry	1	08/27/13 15:53
Fluorene	52		9.0	31	µg/Kg-dry	1	08/27/13 15:53

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-101
Collection Date: 08/20/13 03:10 PM

Work Order: 1308936
Lab ID: 1308936-35
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	220		19	31	µg/Kg-dry	1	08/27/13 15:53
Naphthalene	U		8.8	31	µg/Kg-dry	1	08/27/13 15:53
Phenanthrene	560		31	31	µg/Kg-dry	1	08/27/13 15:53
Pyrene	700		13	31	µg/Kg-dry	1	08/27/13 15:53
Surr: 2-Fluorobiphenyl	74.2			12-100	%REC	1	08/27/13 15:53
Surr: 4-Terphenyl-d14	125			25-137	%REC	1	08/27/13 15:53
Surr: Nitrobenzene-d5	62.4			37-107	%REC	1	08/27/13 15:53
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: BG
BatchID: 50821							
1,1,1-Trichloroethane	U		13	35	µg/Kg-dry	1	08/27/13 23:33
1,1,2,2-Tetrachloroethane	U		15	35	µg/Kg-dry	1	08/27/13 23:33
1,1,2-Trichloroethane	U		12	35	µg/Kg-dry	1	08/27/13 23:33
1,1,2-Trichlorotrifluoroethane	U		13	35	µg/Kg-dry	1	08/27/13 23:33
1,1-Dichloroethane	U		13	35	µg/Kg-dry	1	08/27/13 23:33
1,1-Dichloroethene	U		15	35	µg/Kg-dry	1	08/27/13 23:33
1,2,4-Trichlorobenzene	U		18	35	µg/Kg-dry	1	08/27/13 23:33
1,2-Dibromo-3-chloropropane	U		17	35	µg/Kg-dry	1	08/27/13 23:33
1,2-Dibromoethane	U		14	35	µg/Kg-dry	1	08/27/13 23:33
1,2-Dichlorobenzene	U		14	35	µg/Kg-dry	1	08/27/13 23:33
1,2-Dichloroethane	U		17	35	µg/Kg-dry	1	08/27/13 23:33
1,2-Dichloropropane	U		12	35	µg/Kg-dry	1	08/27/13 23:33
1,3-Dichlorobenzene	U		14	35	µg/Kg-dry	1	08/27/13 23:33
1,4-Dichlorobenzene	U		13	35	µg/Kg-dry	1	08/27/13 23:33
2-Butanone	U		87	230	µg/Kg-dry	1	08/27/13 23:33
2-Hexanone	U		8.6	35	µg/Kg-dry	1	08/27/13 23:33
4-Methyl-2-pentanone	U		12	35	µg/Kg-dry	1	08/27/13 23:33
Acetone	U		74	120	µg/Kg-dry	1	08/27/13 23:33
Benzene	U		14	35	µg/Kg-dry	1	08/27/13 23:33
Bromodichloromethane	U		7.9	35	µg/Kg-dry	1	08/27/13 23:33
Bromoform	U		6.9	35	µg/Kg-dry	1	08/27/13 23:33
Bromomethane	U		13	88	µg/Kg-dry	1	08/27/13 23:33
Carbon disulfide	U		17	35	µg/Kg-dry	1	08/27/13 23:33
Carbon tetrachloride	U		10	35	µg/Kg-dry	1	08/27/13 23:33
Chlorobenzene	U		14	35	µg/Kg-dry	1	08/27/13 23:33
Chloroethane	U		75	120	µg/Kg-dry	1	08/27/13 23:33
Chloroform	U		14	35	µg/Kg-dry	1	08/27/13 23:33
Chloromethane	U		20	120	µg/Kg-dry	1	08/27/13 23:33
cis-1,2-Dichloroethene	U		14	35	µg/Kg-dry	1	08/27/13 23:33
cis-1,3-Dichloropropene	U		12	35	µg/Kg-dry	1	08/27/13 23:33

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-101
Collection Date: 08/20/13 03:10 PM

Work Order: 1308936
Lab ID: 1308936-35
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		16	35	µg/Kg-dry	1	08/27/13 23:33
Dibromochloromethane	U		6.5	35	µg/Kg-dry	1	08/27/13 23:33
Dichlorodifluoromethane	U		16	35	µg/Kg-dry	1	08/27/13 23:33
Ethylbenzene	U		13	35	µg/Kg-dry	1	08/27/13 23:33
Isopropylbenzene	U		15	35	µg/Kg-dry	1	08/27/13 23:33
Methyl acetate	U		47	230	µg/Kg-dry	1	08/27/13 23:33
Methyl tert-butyl ether	U		15	35	µg/Kg-dry	1	08/27/13 23:33
Methylcyclohexane	U		16	35	µg/Kg-dry	1	08/27/13 23:33
Methylene chloride	76	J	14	82	µg/Kg-dry	1	08/27/13 23:33
Styrene	U		13	35	µg/Kg-dry	1	08/27/13 23:33
Tetrachloroethene	U		16	35	µg/Kg-dry	1	08/27/13 23:33
Toluene	U		13	35	µg/Kg-dry	1	08/27/13 23:33
trans-1,2-Dichloroethene	U		11	35	µg/Kg-dry	1	08/27/13 23:33
trans-1,3-Dichloropropene	U		12	35	µg/Kg-dry	1	08/27/13 23:33
Trichloroethene	U		16	35	µg/Kg-dry	1	08/27/13 23:33
Trichlorofluoromethane	U		9.7	35	µg/Kg-dry	1	08/27/13 23:33
Vinyl chloride	U		16	35	µg/Kg-dry	1	08/27/13 23:33
Xylenes, Total	U		41	110	µg/Kg-dry	1	08/27/13 23:33
Surr: 1,2-Dichloroethane-d4	102			70-130	%REC	1	08/27/13 23:33
Surr: 4-Bromofluorobenzene	99.8			70-130	%REC	1	08/27/13 23:33
Surr: Dibromofluoromethane	95.4			70-130	%REC	1	08/27/13 23:33
Surr: Toluene-d8	102			70-130	%REC	1	08/27/13 23:33
MOISTURE			A2540 G				Analyst: RLF
BatchID: <u>R125772</u>							
Moisture	5.3		0.025	0.050	% of sample	1	08/27/13 08:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-102
Collection Date: 08/20/13 03:15 PM

Work Order: 1308936
Lab ID: 1308936-36
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/29/13	Analyst: LR
<u>BatchID: 50891</u>							
Mercury	0.0055	J	0.00068	0.034	mg/Kg-dry	1	08/30/13 09:16
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/27/13	Analyst: ML
<u>BatchID: 50866</u>							
Antimony	0.10	J	0.0014	0.36	mg/Kg-dry	1	08/28/13 17:40
Arsenic	1.0		0.049	0.36	mg/Kg-dry	1	08/28/13 17:40
Barium	8.1		0.010	0.36	mg/Kg-dry	1	08/28/13 17:40
Beryllium	0.045	J	0.0029	0.14	mg/Kg-dry	1	08/28/13 17:40
Cadmium	0.046	J	0.0014	0.14	mg/Kg-dry	1	08/28/13 17:40
Chromium	3.2		0.059	0.36	mg/Kg-dry	1	08/28/13 17:40
Cobalt	1.0		0.0014	0.36	mg/Kg-dry	1	08/28/13 17:40
Copper	4.9		0.070	0.36	mg/Kg-dry	1	08/28/13 17:40
Iron	2,600		1.2	5.7	mg/Kg-dry	1	08/28/13 17:40
Lead	4.6		0.0014	0.36	mg/Kg-dry	1	08/28/13 17:40
Manganese	67		0.031	0.36	mg/Kg-dry	1	08/28/13 17:40
Molybdenum	0.58		0.016	0.36	mg/Kg-dry	1	08/28/13 17:40
Nickel	3.3		0.036	0.36	mg/Kg-dry	1	08/28/13 17:40
Selenium	0.19	J	0.046	0.36	mg/Kg-dry	1	08/28/13 17:40
Silver	0.023	J	0.0014	0.36	mg/Kg-dry	1	08/28/13 17:40
Thallium	U		0.0086	0.36	mg/Kg-dry	1	08/28/13 17:40
Vanadium	4.1		0.021	0.36	mg/Kg-dry	1	08/28/13 17:40
Zinc	9.2		0.030	0.71	mg/Kg-dry	1	08/28/13 17:40
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/27/13	Analyst: HL
<u>BatchID: 50831</u>							
2-Methylnaphthalene	U		10	83	µg/Kg-dry	1	08/27/13 16:16
Acenaphthene	33		9.5	31	µg/Kg-dry	1	08/27/13 16:16
Acenaphthylene	U		9.9	31	µg/Kg-dry	1	08/27/13 16:16
Anthracene	160		11	31	µg/Kg-dry	1	08/27/13 16:16
Benzo(a)anthracene	280		13	31	µg/Kg-dry	1	08/27/13 16:16
Benzo(a)pyrene	230		16	31	µg/Kg-dry	1	08/27/13 16:16
Benzo(b)fluoranthene	340		17	31	µg/Kg-dry	1	08/27/13 16:16
Benzo(g,h,i)perylene	160		25	31	µg/Kg-dry	1	08/27/13 16:16
Benzo(k)fluoranthene	110		14	31	µg/Kg-dry	1	08/27/13 16:16
Chrysene	300		12	31	µg/Kg-dry	1	08/27/13 16:16
Dibenzo(a,h)anthracene	37		18	31	µg/Kg-dry	1	08/27/13 16:16
Fluoranthene	640		12	31	µg/Kg-dry	1	08/27/13 16:16
Fluorene	36		9.1	31	µg/Kg-dry	1	08/27/13 16:16

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-102
Collection Date: 08/20/13 03:15 PM

Work Order: 1308936
Lab ID: 1308936-36
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	160		20	31	µg/Kg-dry	1	08/27/13 16:16
Naphthalene	U		8.9	31	µg/Kg-dry	1	08/27/13 16:16
Phenanthrene	460		31	31	µg/Kg-dry	1	08/27/13 16:16
Pyrene	480		13	31	µg/Kg-dry	1	08/27/13 16:16
Surr: 2-Fluorobiphenyl	77.2			12-100	%REC	1	08/27/13 16:16
Surr: 4-Terphenyl-d14	102			25-137	%REC	1	08/27/13 16:16
Surr: Nitrobenzene-d5	66.7			37-107	%REC	1	08/27/13 16:16
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: AK
BatchID: 50821							
1,1,1-Trichloroethane	U		13	34	µg/Kg-dry	1	08/28/13 05:00
1,1,2,2-Tetrachloroethane	U		15	34	µg/Kg-dry	1	08/28/13 05:00
1,1,2-Trichloroethane	U		12	34	µg/Kg-dry	1	08/28/13 05:00
1,1,2-Trichlorotrifluoroethane	U		12	34	µg/Kg-dry	1	08/28/13 05:00
1,1-Dichloroethane	U		12	34	µg/Kg-dry	1	08/28/13 05:00
1,1-Dichloroethene	U		14	34	µg/Kg-dry	1	08/28/13 05:00
1,2,4-Trichlorobenzene	U		17	34	µg/Kg-dry	1	08/28/13 05:00
1,2-Dibromo-3-chloropropane	U		16	34	µg/Kg-dry	1	08/28/13 05:00
1,2-Dibromoethane	U		13	34	µg/Kg-dry	1	08/28/13 05:00
1,2-Dichlorobenzene	U		14	34	µg/Kg-dry	1	08/28/13 05:00
1,2-Dichloroethane	U		16	34	µg/Kg-dry	1	08/28/13 05:00
1,2-Dichloropropane	U		11	34	µg/Kg-dry	1	08/28/13 05:00
1,3-Dichlorobenzene	U		14	34	µg/Kg-dry	1	08/28/13 05:00
1,4-Dichlorobenzene	U		13	34	µg/Kg-dry	1	08/28/13 05:00
2-Butanone	U		84	230	µg/Kg-dry	1	08/28/13 05:00
2-Hexanone	U		8.3	34	µg/Kg-dry	1	08/28/13 05:00
4-Methyl-2-pentanone	U		11	34	µg/Kg-dry	1	08/28/13 05:00
Acetone	U		71	110	µg/Kg-dry	1	08/28/13 05:00
Benzene	U		14	34	µg/Kg-dry	1	08/28/13 05:00
Bromodichloromethane	U		7.6	34	µg/Kg-dry	1	08/28/13 05:00
Bromoform	U		6.6	34	µg/Kg-dry	1	08/28/13 05:00
Bromomethane	U		13	84	µg/Kg-dry	1	08/28/13 05:00
Carbon disulfide	U		17	34	µg/Kg-dry	1	08/28/13 05:00
Carbon tetrachloride	U		9.6	34	µg/Kg-dry	1	08/28/13 05:00
Chlorobenzene	U		14	34	µg/Kg-dry	1	08/28/13 05:00
Chloroethane	U		72	110	µg/Kg-dry	1	08/28/13 05:00
Chloroform	U		14	34	µg/Kg-dry	1	08/28/13 05:00
Chloromethane	U		19	110	µg/Kg-dry	1	08/28/13 05:00
cis-1,2-Dichloroethene	U		14	34	µg/Kg-dry	1	08/28/13 05:00
cis-1,3-Dichloropropene	U		12	34	µg/Kg-dry	1	08/28/13 05:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-102
Collection Date: 08/20/13 03:15 PM

Work Order: 1308936
Lab ID: 1308936-36
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		15	34	µg/Kg-dry	1	08/28/13 05:00
Dibromochloromethane	U		6.2	34	µg/Kg-dry	1	08/28/13 05:00
Dichlorodifluoromethane	U		15	34	µg/Kg-dry	1	08/28/13 05:00
Ethylbenzene	U		13	34	µg/Kg-dry	1	08/28/13 05:00
Isopropylbenzene	U		15	34	µg/Kg-dry	1	08/28/13 05:00
Methyl acetate	U		45	230	µg/Kg-dry	1	08/28/13 05:00
Methyl tert-butyl ether	U		14	34	µg/Kg-dry	1	08/28/13 05:00
Methylcyclohexane	U		16	34	µg/Kg-dry	1	08/28/13 05:00
Methylene chloride	74	J	13	79	µg/Kg-dry	1	08/28/13 05:00
Styrene	U		13	34	µg/Kg-dry	1	08/28/13 05:00
Tetrachloroethene	U		15	34	µg/Kg-dry	1	08/28/13 05:00
Toluene	U		13	34	µg/Kg-dry	1	08/28/13 05:00
trans-1,2-Dichloroethene	U		10	34	µg/Kg-dry	1	08/28/13 05:00
trans-1,3-Dichloropropene	U		11	34	µg/Kg-dry	1	08/28/13 05:00
Trichloroethene	190		16	34	µg/Kg-dry	1	08/28/13 05:00
Trichlorofluoromethane	U		9.3	34	µg/Kg-dry	1	08/28/13 05:00
Vinyl chloride	U		15	34	µg/Kg-dry	1	08/28/13 05:00
Xylenes, Total	U		40	100	µg/Kg-dry	1	08/28/13 05:00
Surr: 1,2-Dichloroethane-d4	95.7			70-130	%REC	1	08/28/13 05:00
Surr: 4-Bromofluorobenzene	100			70-130	%REC	1	08/28/13 05:00
Surr: Dibromofluoromethane	96.0			70-130	%REC	1	08/28/13 05:00
Surr: Toluene-d8	94.8			70-130	%REC	1	08/28/13 05:00
MOISTURE			A2540 G				Analyst: RLF
BatchID: <u>R125772</u>							
Moisture	5.3		0.025	0.050	% of sample	1	08/27/13 08:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-103
Collection Date: 08/20/13 03:20 PM

Work Order: 1308936
Lab ID: 1308936-37
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/29/13	Analyst: LR
BatchID: <u>50891</u>							
Mercury	0.0046	J	0.00078	0.039	mg/Kg-dry	1	08/30/13 09:18
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/27/13	Analyst: ML
BatchID: <u>50866</u>							
Antimony	0.080	J	0.0014	0.36	mg/Kg-dry	1	08/28/13 17:46
Arsenic	0.91		0.048	0.36	mg/Kg-dry	1	08/28/13 17:46
Barium	6.5		0.010	0.36	mg/Kg-dry	1	08/28/13 17:46
Beryllium	0.042	J	0.0029	0.14	mg/Kg-dry	1	08/28/13 17:46
Cadmium	0.028	J	0.0014	0.14	mg/Kg-dry	1	08/28/13 17:46
Chromium	2.7		0.058	0.36	mg/Kg-dry	1	08/28/13 17:46
Cobalt	0.92		0.0014	0.36	mg/Kg-dry	1	08/28/13 17:46
Copper	3.7		0.070	0.36	mg/Kg-dry	1	08/28/13 17:46
Iron	2,500		1.2	5.7	mg/Kg-dry	1	08/28/13 17:46
Lead	2.9		0.0014	0.36	mg/Kg-dry	1	08/28/13 17:46
Manganese	62		0.031	0.36	mg/Kg-dry	1	08/28/13 17:46
Molybdenum	0.47		0.016	0.36	mg/Kg-dry	1	08/28/13 17:46
Nickel	2.4		0.036	0.36	mg/Kg-dry	1	08/28/13 17:46
Selenium	0.17	J	0.046	0.36	mg/Kg-dry	1	08/28/13 17:46
Silver	0.0042	J	0.0014	0.36	mg/Kg-dry	1	08/28/13 17:46
Thallium	U		0.0086	0.36	mg/Kg-dry	1	08/28/13 17:46
Vanadium	3.6		0.021	0.36	mg/Kg-dry	1	08/28/13 17:46
Zinc	9.1		0.030	0.71	mg/Kg-dry	1	08/28/13 17:46
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/27/13	Analyst: HL
BatchID: <u>50831</u>							
2-Methylnaphthalene	U		10	82	µg/Kg-dry	1	08/27/13 16:38
Acenaphthene	41		9.4	31	µg/Kg-dry	1	08/27/13 16:38
Acenaphthylene	U		9.7	31	µg/Kg-dry	1	08/27/13 16:38
Anthracene	99		10	31	µg/Kg-dry	1	08/27/13 16:38
Benzo(a)anthracene	280		12	31	µg/Kg-dry	1	08/27/13 16:38
Benzo(a)pyrene	250		16	31	µg/Kg-dry	1	08/27/13 16:38
Benzo(b)fluoranthene	380		17	31	µg/Kg-dry	1	08/27/13 16:38
Benzo(g,h,i)perylene	200		24	31	µg/Kg-dry	1	08/27/13 16:38
Benzo(k)fluoranthene	100		14	31	µg/Kg-dry	1	08/27/13 16:38
Chrysene	280		12	31	µg/Kg-dry	1	08/27/13 16:38
Dibenzo(a,h)anthracene	42		18	31	µg/Kg-dry	1	08/27/13 16:38
Fluoranthene	600		12	31	µg/Kg-dry	1	08/27/13 16:38
Fluorene	42		9.0	31	µg/Kg-dry	1	08/27/13 16:38

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-103
Collection Date: 08/20/13 03:20 PM

Work Order: 1308936
Lab ID: 1308936-37
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	190		19	31	µg/Kg-dry	1	08/27/13 16:38
Naphthalene	U		8.8	31	µg/Kg-dry	1	08/27/13 16:38
Phenanthrene	460		31	31	µg/Kg-dry	1	08/27/13 16:38
Pyrene	480		13	31	µg/Kg-dry	1	08/27/13 16:38
Surr: 2-Fluorobiphenyl	74.3			12-100	%REC	1	08/27/13 16:38
Surr: 4-Terphenyl-d14	100			25-137	%REC	1	08/27/13 16:38
Surr: Nitrobenzene-d5	61.9			37-107	%REC	1	08/27/13 16:38
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: AK
BatchID: 50821							
1,1,1-Trichloroethane	U		15	40	µg/Kg-dry	1	08/28/13 05:25
1,1,2,2-Tetrachloroethane	U		18	40	µg/Kg-dry	1	08/28/13 05:25
1,1,2-Trichloroethane	U		14	40	µg/Kg-dry	1	08/28/13 05:25
1,1,2-Trichlorotrifluoroethane	U		15	40	µg/Kg-dry	1	08/28/13 05:25
1,1-Dichloroethane	U		15	40	µg/Kg-dry	1	08/28/13 05:25
1,1-Dichloroethene	U		17	40	µg/Kg-dry	1	08/28/13 05:25
1,2,4-Trichlorobenzene	U		21	40	µg/Kg-dry	1	08/28/13 05:25
1,2-Dibromo-3-chloropropane	U		20	40	µg/Kg-dry	1	08/28/13 05:25
1,2-Dibromoethane	U		16	40	µg/Kg-dry	1	08/28/13 05:25
1,2-Dichlorobenzene	U		16	40	µg/Kg-dry	1	08/28/13 05:25
1,2-Dichloroethane	U		19	40	µg/Kg-dry	1	08/28/13 05:25
1,2-Dichloropropane	U		13	40	µg/Kg-dry	1	08/28/13 05:25
1,3-Dichlorobenzene	U		16	40	µg/Kg-dry	1	08/28/13 05:25
1,4-Dichlorobenzene	U		15	40	µg/Kg-dry	1	08/28/13 05:25
2-Butanone	U		100	270	µg/Kg-dry	1	08/28/13 05:25
2-Hexanone	U		9.9	40	µg/Kg-dry	1	08/28/13 05:25
4-Methyl-2-pentanone	U		14	40	µg/Kg-dry	1	08/28/13 05:25
Acetone	U		86	130	µg/Kg-dry	1	08/28/13 05:25
Benzene	U		16	40	µg/Kg-dry	1	08/28/13 05:25
Bromodichloromethane	U		9.1	40	µg/Kg-dry	1	08/28/13 05:25
Bromoform	U		8.0	40	µg/Kg-dry	1	08/28/13 05:25
Bromomethane	U		15	100	µg/Kg-dry	1	08/28/13 05:25
Carbon disulfide	U		20	40	µg/Kg-dry	1	08/28/13 05:25
Carbon tetrachloride	U		11	40	µg/Kg-dry	1	08/28/13 05:25
Chlorobenzene	U		16	40	µg/Kg-dry	1	08/28/13 05:25
Chloroethane	U		86	130	µg/Kg-dry	1	08/28/13 05:25
Chloroform	U		17	40	µg/Kg-dry	1	08/28/13 05:25
Chloromethane	U		22	130	µg/Kg-dry	1	08/28/13 05:25
cis-1,2-Dichloroethene	U		16	40	µg/Kg-dry	1	08/28/13 05:25
cis-1,3-Dichloropropene	U		14	40	µg/Kg-dry	1	08/28/13 05:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-103
Collection Date: 08/20/13 03:20 PM

Work Order: 1308936
Lab ID: 1308936-37
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		18	40	µg/Kg-dry	1	08/28/13 05:25
Dibromochloromethane	U		7.5	40	µg/Kg-dry	1	08/28/13 05:25
Dichlorodifluoromethane	U		18	40	µg/Kg-dry	1	08/28/13 05:25
Ethylbenzene	U		15	40	µg/Kg-dry	1	08/28/13 05:25
Isopropylbenzene	U		17	40	µg/Kg-dry	1	08/28/13 05:25
Methyl acetate	U		54	270	µg/Kg-dry	1	08/28/13 05:25
Methyl tert-butyl ether	U		17	40	µg/Kg-dry	1	08/28/13 05:25
Methylcyclohexane	U		19	40	µg/Kg-dry	1	08/28/13 05:25
Methylene chloride	U		16	40	µg/Kg-dry	1	08/28/13 05:25
Styrene	U		15	40	µg/Kg-dry	1	08/28/13 05:25
Tetrachloroethene	U		18	40	µg/Kg-dry	1	08/28/13 05:25
Toluene	U		15	40	µg/Kg-dry	1	08/28/13 05:25
trans-1,2-Dichloroethene	U		12	40	µg/Kg-dry	1	08/28/13 05:25
trans-1,3-Dichloropropene	U		14	40	µg/Kg-dry	1	08/28/13 05:25
Trichloroethene	U		19	40	µg/Kg-dry	1	08/28/13 05:25
Trichlorofluoromethane	U		11	40	µg/Kg-dry	1	08/28/13 05:25
Vinyl chloride	U		18	40	µg/Kg-dry	1	08/28/13 05:25
Xylenes, Total	U		48	120	µg/Kg-dry	1	08/28/13 05:25
Surr: 1,2-Dichloroethane-d4	98.0			70-130	%REC	1	08/28/13 05:25
Surr: 4-Bromofluorobenzene	105			70-130	%REC	1	08/28/13 05:25
Surr: Dibromofluoromethane	95.0			70-130	%REC	1	08/28/13 05:25
Surr: Toluene-d8	95.6			70-130	%REC	1	08/28/13 05:25
MOISTURE			A2540 G			Analyst: RLF	
BatchID: R125772							
Moisture	3.8		0.025	0.050	% of sample	1	08/27/13 08:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-104
Collection Date: 08/20/13 03:25 PM

Work Order: 1308936
Lab ID: 1308936-38
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/29/13	Analyst: LR
BatchID: <u>50891</u>							
Mercury	0.0091	J	0.00075	0.037	mg/Kg-dry	1	08/30/13 09:20
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/27/13	Analyst: ML
BatchID: <u>50866</u>							
Antimony	2.1		0.0015	0.37	mg/Kg-dry	1	08/28/13 17:53
Arsenic	2.2		0.050	0.37	mg/Kg-dry	1	08/28/13 17:53
Barium	30		0.010	0.37	mg/Kg-dry	1	08/28/13 17:53
Beryllium	0.048	J	0.0029	0.15	mg/Kg-dry	1	08/28/13 17:53
Cadmium	0.45		0.0015	0.15	mg/Kg-dry	1	08/28/13 17:53
Chromium	18		0.060	0.37	mg/Kg-dry	1	08/28/13 17:53
Cobalt	3.8		0.0015	0.37	mg/Kg-dry	1	08/28/13 17:53
Copper	75		0.072	0.37	mg/Kg-dry	1	08/28/13 17:53
Iron	9,300		1.2	5.8	mg/Kg-dry	1	08/28/13 17:53
Molybdenum	13		0.016	0.37	mg/Kg-dry	1	08/28/13 17:53
Nickel	23		0.037	0.37	mg/Kg-dry	1	08/28/13 17:53
Selenium	0.16	J	0.047	0.37	mg/Kg-dry	1	08/28/13 17:53
Silver	0.39		0.0015	0.37	mg/Kg-dry	1	08/28/13 17:53
Thallium	U		0.0088	0.37	mg/Kg-dry	1	08/28/13 17:53
Vanadium	4.0		0.022	0.37	mg/Kg-dry	1	08/28/13 17:53
Zinc	58		0.031	0.73	mg/Kg-dry	1	08/28/13 17:53
BatchID: <u>50866</u>							
Lead	230		0.015	3.7	mg/Kg-dry	10	08/29/13 09:10
Manganese	140		0.32	3.7	mg/Kg-dry	10	08/29/13 09:10
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/27/13	Analyst: HL
BatchID: <u>50831</u>							
2-Methylnaphthalene	U		100	840	µg/Kg-dry	10	08/27/13 22:28
Acenaphthene	190	J	96	320	µg/Kg-dry	10	08/27/13 22:28
Acenaphthylene	U		99	320	µg/Kg-dry	10	08/27/13 22:28
Anthracene	330		110	320	µg/Kg-dry	10	08/27/13 22:28
Benzo(a)anthracene	1,100		130	320	µg/Kg-dry	10	08/27/13 22:28
Benzo(a)pyrene	870		160	320	µg/Kg-dry	10	08/27/13 22:28
Benzo(b)fluoranthene	1,200		170	320	µg/Kg-dry	10	08/27/13 22:28
Benzo(g,h,i)perylene	510		250	320	µg/Kg-dry	10	08/27/13 22:28
Benzo(k)fluoranthene	470		140	320	µg/Kg-dry	10	08/27/13 22:28
Chrysene	990		120	320	µg/Kg-dry	10	08/27/13 22:28
Dibenzo(a,h)anthracene	U		180	320	µg/Kg-dry	10	08/27/13 22:28
Fluoranthene	2,700		130	320	µg/Kg-dry	10	08/27/13 22:28

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-104
Collection Date: 08/20/13 03:25 PM

Work Order: 1308936
Lab ID: 1308936-38
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		92	320	µg/Kg-dry	10	08/27/13 22:28
Indeno(1,2,3-cd)pyrene	520		200	320	µg/Kg-dry	10	08/27/13 22:28
Naphthalene	U		90	320	µg/Kg-dry	10	08/27/13 22:28
Phenanthrene	1,600		320	320	µg/Kg-dry	10	08/27/13 22:28
Pyrene	2,000		130	320	µg/Kg-dry	10	08/27/13 22:28
Surr: 2-Fluorobiphenyl	70.2			12-100	%REC	10	08/27/13 22:28
Surr: 4-Terphenyl-d14	97.4			25-137	%REC	10	08/27/13 22:28
Surr: Nitrobenzene-d5	53.4			37-107	%REC	10	08/27/13 22:28
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: AK
BatchID: 50821							
1,1,1-Trichloroethane	U		13	33	µg/Kg-dry	1	08/28/13 05:49
1,1,2,2-Tetrachloroethane	U		15	33	µg/Kg-dry	1	08/28/13 05:49
1,1,2-Trichloroethane	U		12	33	µg/Kg-dry	1	08/28/13 05:49
1,1,2-Trichlorotrifluoroethane	U		12	33	µg/Kg-dry	1	08/28/13 05:49
1,1-Dichloroethane	U		12	33	µg/Kg-dry	1	08/28/13 05:49
1,1-Dichloroethene	U		14	33	µg/Kg-dry	1	08/28/13 05:49
1,2,4-Trichlorobenzene	U		17	33	µg/Kg-dry	1	08/28/13 05:49
1,2-Dibromo-3-chloropropane	U		16	33	µg/Kg-dry	1	08/28/13 05:49
1,2-Dibromoethane	U		13	33	µg/Kg-dry	1	08/28/13 05:49
1,2-Dichlorobenzene	U		13	33	µg/Kg-dry	1	08/28/13 05:49
1,2-Dichloroethane	U		16	33	µg/Kg-dry	1	08/28/13 05:49
1,2-Dichloropropane	U		11	33	µg/Kg-dry	1	08/28/13 05:49
1,3-Dichlorobenzene	U		13	33	µg/Kg-dry	1	08/28/13 05:49
1,4-Dichlorobenzene	U		13	33	µg/Kg-dry	1	08/28/13 05:49
2-Butanone	U		82	220	µg/Kg-dry	1	08/28/13 05:49
2-Hexanone	U		8.1	33	µg/Kg-dry	1	08/28/13 05:49
4-Methyl-2-pentanone	U		11	33	µg/Kg-dry	1	08/28/13 05:49
Acetone	U		70	110	µg/Kg-dry	1	08/28/13 05:49
Benzene	U		13	33	µg/Kg-dry	1	08/28/13 05:49
Bromodichloromethane	U		7.4	33	µg/Kg-dry	1	08/28/13 05:49
Bromoform	U		6.5	33	µg/Kg-dry	1	08/28/13 05:49
Bromomethane	U		13	82	µg/Kg-dry	1	08/28/13 05:49
Carbon disulfide	U		16	33	µg/Kg-dry	1	08/28/13 05:49
Carbon tetrachloride	U		9.4	33	µg/Kg-dry	1	08/28/13 05:49
Chlorobenzene	U		13	33	µg/Kg-dry	1	08/28/13 05:49
Chloroethane	U		70	110	µg/Kg-dry	1	08/28/13 05:49
Chloroform	U		14	33	µg/Kg-dry	1	08/28/13 05:49
Chloromethane	U		18	110	µg/Kg-dry	1	08/28/13 05:49
cis-1,2-Dichloroethene	U		13	33	µg/Kg-dry	1	08/28/13 05:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-104
Collection Date: 08/20/13 03:25 PM

Work Order: 1308936
Lab ID: 1308936-38
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		11	33	µg/Kg-dry	1	08/28/13 05:49
Cyclohexane	U		15	33	µg/Kg-dry	1	08/28/13 05:49
Dibromochloromethane	U		6.1	33	µg/Kg-dry	1	08/28/13 05:49
Dichlorodifluoromethane	U		15	33	µg/Kg-dry	1	08/28/13 05:49
Ethylbenzene	U		12	33	µg/Kg-dry	1	08/28/13 05:49
Isopropylbenzene	U		14	33	µg/Kg-dry	1	08/28/13 05:49
Methyl acetate	U		44	220	µg/Kg-dry	1	08/28/13 05:49
Methyl tert-butyl ether	U		14	33	µg/Kg-dry	1	08/28/13 05:49
Methylcyclohexane	U		15	33	µg/Kg-dry	1	08/28/13 05:49
Methylene chloride	U		13	33	µg/Kg-dry	1	08/28/13 05:49
Styrene	U		12	33	µg/Kg-dry	1	08/28/13 05:49
Tetrachloroethene	U		15	33	µg/Kg-dry	1	08/28/13 05:49
Toluene	U		12	33	µg/Kg-dry	1	08/28/13 05:49
trans-1,2-Dichloroethene	U		10	33	µg/Kg-dry	1	08/28/13 05:49
trans-1,3-Dichloropropene	U		11	33	µg/Kg-dry	1	08/28/13 05:49
Trichloroethene	460		15	33	µg/Kg-dry	1	08/28/13 05:49
Trichlorofluoromethane	U		9.1	33	µg/Kg-dry	1	08/28/13 05:49
Vinyl chloride	U		15	33	µg/Kg-dry	1	08/28/13 05:49
Xylenes, Total	U		39	99	µg/Kg-dry	1	08/28/13 05:49
Surr: 1,2-Dichloroethane-d4	95.8			70-130	%REC	1	08/28/13 05:49
Surr: 4-Bromofluorobenzene	103			70-130	%REC	1	08/28/13 05:49
Surr: Dibromofluoromethane	93.8			70-130	%REC	1	08/28/13 05:49
Surr: Toluene-d8	95.6			70-130	%REC	1	08/28/13 05:49
MOISTURE			A2540 G			Analyst: EE	
BatchID: R125773							
Moisture	6.0		0.025	0.050	% of sample	1	08/27/13 09:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-105
Collection Date: 08/20/13 03:30 PM

Work Order: 1308936
Lab ID: 1308936-39
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/29/13	Analyst: LR
<u>BatchID: 50891</u>							
Mercury	0.014	J	0.00078	0.039	mg/Kg-dry	1	08/30/13 09:22
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/27/13	Analyst: ML
<u>BatchID: 50866</u>							
Antimony	0.51		0.0015	0.37	mg/Kg-dry	1	08/28/13 17:59
Arsenic	1.4		0.051	0.37	mg/Kg-dry	1	08/28/13 17:59
Barium	33		0.010	0.37	mg/Kg-dry	1	08/28/13 17:59
Beryllium	0.12	J	0.0030	0.15	mg/Kg-dry	1	08/28/13 17:59
Cadmium	0.41		0.0015	0.15	mg/Kg-dry	1	08/28/13 17:59
Chromium	7.8		0.061	0.37	mg/Kg-dry	1	08/28/13 17:59
Cobalt	1.7		0.0015	0.37	mg/Kg-dry	1	08/28/13 17:59
Copper	9.1		0.073	0.37	mg/Kg-dry	1	08/28/13 17:59
Iron	5,000		1.2	6.0	mg/Kg-dry	1	08/28/13 17:59
Lead	35		0.0015	0.37	mg/Kg-dry	1	08/28/13 17:59
Manganese	91		0.033	0.37	mg/Kg-dry	1	08/28/13 17:59
Molybdenum	4.7		0.016	0.37	mg/Kg-dry	1	08/28/13 17:59
Nickel	8.1		0.037	0.37	mg/Kg-dry	1	08/28/13 17:59
Selenium	0.30	J	0.048	0.37	mg/Kg-dry	1	08/28/13 17:59
Silver	0.73		0.0015	0.37	mg/Kg-dry	1	08/28/13 17:59
Thallium	U		0.0090	0.37	mg/Kg-dry	1	08/28/13 17:59
Vanadium	6.7		0.022	0.37	mg/Kg-dry	1	08/28/13 17:59
Zinc	25		0.031	0.75	mg/Kg-dry	1	08/28/13 17:59
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/27/13	Analyst: HL
<u>BatchID: 50831</u>							
2-Methylnaphthalene	U		11	87	µg/Kg-dry	1	08/27/13 17:00
Acenaphthene	U		10	33	µg/Kg-dry	1	08/27/13 17:00
Acenaphthylene	U		10	33	µg/Kg-dry	1	08/27/13 17:00
Anthracene	U		11	33	µg/Kg-dry	1	08/27/13 17:00
Benzo(a)anthracene	44		13	33	µg/Kg-dry	1	08/27/13 17:00
Benzo(a)pyrene	32	J	17	33	µg/Kg-dry	1	08/27/13 17:00
Benzo(b)fluoranthene	69		18	33	µg/Kg-dry	1	08/27/13 17:00
Benzo(g,h,i)perylene	38		26	33	µg/Kg-dry	1	08/27/13 17:00
Benzo(k)fluoranthene	24	J	15	33	µg/Kg-dry	1	08/27/13 17:00
Chrysene	43		12	33	µg/Kg-dry	1	08/27/13 17:00
Dibenzo(a,h)anthracene	U		19	33	µg/Kg-dry	1	08/27/13 17:00
Fluoranthene	70		13	33	µg/Kg-dry	1	08/27/13 17:00
Fluorene	U		9.5	33	µg/Kg-dry	1	08/27/13 17:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-105
Collection Date: 08/20/13 03:30 PM

Work Order: 1308936
Lab ID: 1308936-39
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	35		21	33	µg/Kg-dry	1	08/27/13 17:00
Naphthalene	U		9.3	33	µg/Kg-dry	1	08/27/13 17:00
Phenanthrene	38		33	33	µg/Kg-dry	1	08/27/13 17:00
Pyrene	59		14	33	µg/Kg-dry	1	08/27/13 17:00
Surr: 2-Fluorobiphenyl	61.6			12-100	%REC	1	08/27/13 17:00
Surr: 4-Terphenyl-d14	103			25-137	%REC	1	08/27/13 17:00
Surr: Nitrobenzene-d5	49.5			37-107	%REC	1	08/27/13 17:00
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/27/13		Analyst: AK
BatchID: 50856							
1,1,1-Trichloroethane	U		13	35	µg/Kg-dry	1	08/28/13 06:14
1,1,2,2-Tetrachloroethane	U		15	35	µg/Kg-dry	1	08/28/13 06:14
1,1,2-Trichloroethane	U		12	35	µg/Kg-dry	1	08/28/13 06:14
1,1,2-Trichlorotrifluoroethane	U		13	35	µg/Kg-dry	1	08/28/13 06:14
1,1-Dichloroethane	U		13	35	µg/Kg-dry	1	08/28/13 06:14
1,1-Dichloroethene	U		15	35	µg/Kg-dry	1	08/28/13 06:14
1,2,4-Trichlorobenzene	U		18	35	µg/Kg-dry	1	08/28/13 06:14
1,2-Dibromo-3-chloropropane	U		17	35	µg/Kg-dry	1	08/28/13 06:14
1,2-Dibromoethane	U		14	35	µg/Kg-dry	1	08/28/13 06:14
1,2-Dichlorobenzene	U		14	35	µg/Kg-dry	1	08/28/13 06:14
1,2-Dichloroethane	U		16	35	µg/Kg-dry	1	08/28/13 06:14
1,2-Dichloropropane	U		11	35	µg/Kg-dry	1	08/28/13 06:14
1,3-Dichlorobenzene	U		14	35	µg/Kg-dry	1	08/28/13 06:14
1,4-Dichlorobenzene	U		13	35	µg/Kg-dry	1	08/28/13 06:14
2-Butanone	U		85	230	µg/Kg-dry	1	08/28/13 06:14
2-Hexanone	U		8.5	35	µg/Kg-dry	1	08/28/13 06:14
4-Methyl-2-pentanone	U		12	35	µg/Kg-dry	1	08/28/13 06:14
Acetone	U		73	120	µg/Kg-dry	1	08/28/13 06:14
Benzene	U		14	35	µg/Kg-dry	1	08/28/13 06:14
Bromodichloromethane	U		7.7	35	µg/Kg-dry	1	08/28/13 06:14
Bromoform	U		6.8	35	µg/Kg-dry	1	08/28/13 06:14
Bromomethane	U		13	86	µg/Kg-dry	1	08/28/13 06:14
Carbon disulfide	U		17	35	µg/Kg-dry	1	08/28/13 06:14
Carbon tetrachloride	U		9.8	35	µg/Kg-dry	1	08/28/13 06:14
Chlorobenzene	U		14	35	µg/Kg-dry	1	08/28/13 06:14
Chloroethane	U		73	120	µg/Kg-dry	1	08/28/13 06:14
Chloroform	U		14	35	µg/Kg-dry	1	08/28/13 06:14
Chloromethane	U		19	120	µg/Kg-dry	1	08/28/13 06:14
cis-1,2-Dichloroethene	U		14	35	µg/Kg-dry	1	08/28/13 06:14
cis-1,3-Dichloropropene	U		12	35	µg/Kg-dry	1	08/28/13 06:14

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-105
Collection Date: 08/20/13 03:30 PM

Work Order: 1308936
Lab ID: 1308936-39
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		16	35	µg/Kg-dry	1	08/28/13 06:14
Dibromochloromethane	U		6.4	35	µg/Kg-dry	1	08/28/13 06:14
Dichlorodifluoromethane	U		16	35	µg/Kg-dry	1	08/28/13 06:14
Ethylbenzene	U		13	35	µg/Kg-dry	1	08/28/13 06:14
Isopropylbenzene	U		15	35	µg/Kg-dry	1	08/28/13 06:14
Methyl acetate	U		46	230	µg/Kg-dry	1	08/28/13 06:14
Methyl tert-butyl ether	U		15	35	µg/Kg-dry	1	08/28/13 06:14
Methylcyclohexane	U		16	35	µg/Kg-dry	1	08/28/13 06:14
Methylene chloride	U		14	35	µg/Kg-dry	1	08/28/13 06:14
Styrene	U		13	35	µg/Kg-dry	1	08/28/13 06:14
Tetrachloroethene	U		15	35	µg/Kg-dry	1	08/28/13 06:14
Toluene	U		13	35	µg/Kg-dry	1	08/28/13 06:14
trans-1,2-Dichloroethene	U		11	35	µg/Kg-dry	1	08/28/13 06:14
trans-1,3-Dichloropropene	U		12	35	µg/Kg-dry	1	08/28/13 06:14
Trichloroethene	860		16	35	µg/Kg-dry	1	08/28/13 06:14
Trichlorofluoromethane	U		9.5	35	µg/Kg-dry	1	08/28/13 06:14
Vinyl chloride	U		16	35	µg/Kg-dry	1	08/28/13 06:14
Xylenes, Total	U		41	100	µg/Kg-dry	1	08/28/13 06:14
Surr: 1,2-Dichloroethane-d4	95.0			70-130	%REC	1	08/28/13 06:14
Surr: 4-Bromofluorobenzene	101			70-130	%REC	1	08/28/13 06:14
Surr: Dibromofluoromethane	93.0			70-130	%REC	1	08/28/13 06:14
Surr: Toluene-d8	94.6			70-130	%REC	1	08/28/13 06:14
MOISTURE			A2540 G				Analyst: EE
BatchID: <u>R125773</u>							
Moisture	10		0.025	0.050	% of sample	1	08/27/13 09:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-106
Collection Date: 08/20/13 04:15 PM

Work Order: 1308936
Lab ID: 1308936-40
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/29/13	Analyst: LR
BatchID: <u>50891</u>							
Mercury	0.016	J	0.00079	0.040	mg/Kg-dry	1	08/30/13 09:24
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/27/13	Analyst: ML
BatchID: <u>50866</u>							
Antimony	0.73		0.0015	0.37	mg/Kg-dry	1	08/28/13 14:57
Arsenic	2.0		0.051	0.37	mg/Kg-dry	1	08/28/13 14:57
Barium	36		0.010	0.37	mg/Kg-dry	1	08/28/13 14:57
Beryllium	0.097	J	0.0030	0.15	mg/Kg-dry	1	08/28/13 14:57
Cadmium	0.23		0.0015	0.15	mg/Kg-dry	1	08/28/13 14:57
Chromium	14		0.061	0.37	mg/Kg-dry	1	08/28/13 14:57
Cobalt	2.2		0.0015	0.37	mg/Kg-dry	1	08/28/13 14:57
Copper	12		0.073	0.37	mg/Kg-dry	1	08/28/13 14:57
Iron	5,300		1.2	6.0	mg/Kg-dry	1	08/28/13 14:57
Lead	45		0.0015	0.37	mg/Kg-dry	1	08/28/13 14:57
Molybdenum	3.3		0.016	0.37	mg/Kg-dry	1	08/28/13 14:57
Nickel	12		0.037	0.37	mg/Kg-dry	1	08/28/13 14:57
Selenium	0.23	J	0.048	0.37	mg/Kg-dry	1	08/28/13 14:57
Silver	0.12	J	0.0015	0.37	mg/Kg-dry	1	08/28/13 14:57
Thallium	U		0.0089	0.37	mg/Kg-dry	1	08/28/13 14:57
Vanadium	7.9		0.022	0.37	mg/Kg-dry	1	08/28/13 14:57
Zinc	59		0.031	0.74	mg/Kg-dry	1	08/28/13 14:57
BatchID: <u>50866</u>							
Manganese	160		0.33	3.7	mg/Kg-dry	10	08/29/13 09:17
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/27/13	Analyst: HL
BatchID: <u>50831</u>							
2-Methylnaphthalene	U		100	840	µg/Kg-dry	10	08/27/13 18:44
Acenaphthene	U		96	320	µg/Kg-dry	10	08/27/13 18:44
Acenaphthylene	U		99	320	µg/Kg-dry	10	08/27/13 18:44
Anthracene	230	J	110	320	µg/Kg-dry	10	08/27/13 18:44
Benzo(a)anthracene	770		130	320	µg/Kg-dry	10	08/27/13 18:44
Benzo(a)pyrene	660		160	320	µg/Kg-dry	10	08/27/13 18:44
Benzo(b)fluoranthene	1,100		170	320	µg/Kg-dry	10	08/27/13 18:44
Benzo(g,h,i)perylene	630		250	320	µg/Kg-dry	10	08/27/13 18:44
Benzo(k)fluoranthene	450		140	320	µg/Kg-dry	10	08/27/13 18:44
Chrysene	850		120	320	µg/Kg-dry	10	08/27/13 18:44
Dibenzo(a,h)anthracene	U		180	320	µg/Kg-dry	10	08/27/13 18:44
Fluoranthene	1,800		120	320	µg/Kg-dry	10	08/27/13 18:44

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-106
Collection Date: 08/20/13 04:15 PM

Work Order: 1308936
Lab ID: 1308936-40
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		92	320	µg/Kg-dry	10	08/27/13 18:44
Indeno(1,2,3-cd)pyrene	490		200	320	µg/Kg-dry	10	08/27/13 18:44
Naphthalene	U		90	320	µg/Kg-dry	10	08/27/13 18:44
Phenanthrene	1,200		320	320	µg/Kg-dry	10	08/27/13 18:44
Pyrene	1,600		130	320	µg/Kg-dry	10	08/27/13 18:44
Surr: 2-Fluorobiphenyl	102	S		12-100	%REC	10	08/27/13 18:44
Surr: 4-Terphenyl-d14	118			25-137	%REC	10	08/27/13 18:44
Surr: Nitrobenzene-d5	96.8			37-107	%REC	10	08/27/13 18:44
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/26/13		Analyst: BG
BatchID: 50821							
1,1,1-Trichloroethane	U		23	61	µg/Kg-dry	1	08/28/13 12:00
1,1,2,2-Tetrachloroethane	U		27	61	µg/Kg-dry	1	08/28/13 12:00
1,1,2-Trichloroethane	U		21	61	µg/Kg-dry	1	08/28/13 12:00
1,1,2-Trichlorotrifluoroethane	U		22	61	µg/Kg-dry	1	08/28/13 12:00
1,1-Dichloroethane	U		22	61	µg/Kg-dry	1	08/28/13 12:00
1,1-Dichloroethene	U		25	61	µg/Kg-dry	1	08/28/13 12:00
1,2,4-Trichlorobenzene	U		31	61	µg/Kg-dry	1	08/28/13 12:00
1,2-Dibromo-3-chloropropane	U		30	61	µg/Kg-dry	1	08/28/13 12:00
1,2-Dibromoethane	U		24	61	µg/Kg-dry	1	08/28/13 12:00
1,2-Dichlorobenzene	U		24	61	µg/Kg-dry	1	08/28/13 12:00
1,2-Dichloroethane	U		29	61	µg/Kg-dry	1	08/28/13 12:00
1,2-Dichloropropane	U		20	61	µg/Kg-dry	1	08/28/13 12:00
1,3-Dichlorobenzene	U		24	61	µg/Kg-dry	1	08/28/13 12:00
1,4-Dichlorobenzene	U		23	61	µg/Kg-dry	1	08/28/13 12:00
2-Butanone	U		150	400	µg/Kg-dry	1	08/28/13 12:00
2-Hexanone	U		15	61	µg/Kg-dry	1	08/28/13 12:00
4-Methyl-2-pentanone	U		21	61	µg/Kg-dry	1	08/28/13 12:00
Acetone	U		130	200	µg/Kg-dry	1	08/28/13 12:00
Benzene	U		24	61	µg/Kg-dry	1	08/28/13 12:00
Bromodichloromethane	U		14	61	µg/Kg-dry	1	08/28/13 12:00
Bromoform	U		12	61	µg/Kg-dry	1	08/28/13 12:00
Bromomethane	U		23	150	µg/Kg-dry	1	08/28/13 12:00
Carbon disulfide	U		30	61	µg/Kg-dry	1	08/28/13 12:00
Carbon tetrachloride	U		17	61	µg/Kg-dry	1	08/28/13 12:00
Chlorobenzene	U		25	61	µg/Kg-dry	1	08/28/13 12:00
Chloroethane	U		130	200	µg/Kg-dry	1	08/28/13 12:00
Chloroform	U		25	61	µg/Kg-dry	1	08/28/13 12:00
Chloromethane	U		34	200	µg/Kg-dry	1	08/28/13 12:00
cis-1,2-Dichloroethene	U		25	61	µg/Kg-dry	1	08/28/13 12:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-106
Collection Date: 08/20/13 04:15 PM

Work Order: 1308936
Lab ID: 1308936-40
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		21	61	µg/Kg-dry	1	08/28/13 12:00
Cyclohexane	U		27	61	µg/Kg-dry	1	08/28/13 12:00
Dibromochloromethane	U		11	61	µg/Kg-dry	1	08/28/13 12:00
Dichlorodifluoromethane	U		27	61	µg/Kg-dry	1	08/28/13 12:00
Ethylbenzene	U		23	61	µg/Kg-dry	1	08/28/13 12:00
Isopropylbenzene	U		26	61	µg/Kg-dry	1	08/28/13 12:00
Methyl acetate	180	J	81	400	µg/Kg-dry	1	08/28/13 12:00
Methyl tert-butyl ether	U		26	61	µg/Kg-dry	1	08/28/13 12:00
Methylcyclohexane	57	J	28	61	µg/Kg-dry	1	08/28/13 12:00
Methylene chloride	120	J	24	120	µg/Kg-dry	1	08/28/13 12:00
Styrene	U		23	61	µg/Kg-dry	1	08/28/13 12:00
Tetrachloroethene	U		27	61	µg/Kg-dry	1	08/28/13 12:00
Toluene	28	J	23	61	µg/Kg-dry	1	08/28/13 12:00
trans-1,2-Dichloroethene	U		19	61	µg/Kg-dry	1	08/28/13 12:00
trans-1,3-Dichloropropene	U		20	61	µg/Kg-dry	1	08/28/13 12:00
Trichloroethene	270		28	61	µg/Kg-dry	1	08/28/13 12:00
Trichlorofluoromethane	U		17	61	µg/Kg-dry	1	08/28/13 12:00
Vinyl chloride	U		27	61	µg/Kg-dry	1	08/28/13 12:00
Xylenes, Total	U		72	180	µg/Kg-dry	1	08/28/13 12:00
Surr: 1,2-Dichloroethane-d4	102			70-130	%REC	1	08/28/13 12:00
Surr: 4-Bromofluorobenzene	101			70-130	%REC	1	08/28/13 12:00
Surr: Dibromofluoromethane	95.6			70-130	%REC	1	08/28/13 12:00
Surr: Toluene-d8	101			70-130	%REC	1	08/28/13 12:00
MOISTURE			A2540 G				Analyst: RLF
BatchID: R125772							
Moisture	6.0		0.025	0.050	% of sample	1	08/27/13 08:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-108
Collection Date: 08/20/13 04:25 PM

Work Order: 1308936
Lab ID: 1308936-41
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/29/13	Analyst: LR
BatchID: <u>50891</u>							
Mercury	0.027	J	0.00085	0.042	mg/Kg-dry	1	08/30/13 09:30
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/27/13	Analyst: ML
BatchID: <u>50866</u>							
Antimony	13		0.0016	0.39	mg/Kg-dry	1	08/28/13 18:05
Arsenic	5.9		0.053	0.39	mg/Kg-dry	1	08/28/13 18:05
Beryllium	0.13	J	0.0031	0.16	mg/Kg-dry	1	08/28/13 18:05
Cadmium	5.5		0.0016	0.16	mg/Kg-dry	1	08/28/13 18:05
Cobalt	41		0.0016	0.39	mg/Kg-dry	1	08/28/13 18:05
Selenium	0.41		0.050	0.39	mg/Kg-dry	1	08/28/13 18:05
Silver	6.6		0.0016	0.39	mg/Kg-dry	1	08/28/13 18:05
Vanadium	U		0.024	0.39	mg/Kg-dry	1	08/28/13 18:05
BatchID: <u>50866</u>							
Barium	150		0.11	3.9	mg/Kg-dry	10	08/29/13 09:42
Chromium	680		0.64	3.9	mg/Kg-dry	10	08/29/13 09:42
Copper	420		0.77	3.9	mg/Kg-dry	10	08/29/13 09:42
Iron	43,000		13	63	mg/Kg-dry	10	08/29/13 09:42
Lead	270		0.016	3.9	mg/Kg-dry	10	08/29/13 09:42
Molybdenum	150		0.17	3.9	mg/Kg-dry	10	08/29/13 09:42
Nickel	480		0.39	3.9	mg/Kg-dry	10	08/29/13 09:42
Thallium	U		0.094	3.9	mg/Kg-dry	10	08/29/13 09:42
Zinc	280		0.33	7.9	mg/Kg-dry	10	08/29/13 09:42
BatchID: <u>50866</u>							
Manganese	1,900		3.5	39	mg/Kg-dry	100	08/29/13 09:36
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/27/13	Analyst: HL
BatchID: <u>50831</u>							
2-Methylnaphthalene	U		100	840	µg/Kg-dry	10	08/27/13 22:50
Acenaphthene	U		96	320	µg/Kg-dry	10	08/27/13 22:50
Acenaphthylene	U		100	320	µg/Kg-dry	10	08/27/13 22:50
Anthracene	U		110	320	µg/Kg-dry	10	08/27/13 22:50
Benzo(a)anthracene	510		130	320	µg/Kg-dry	10	08/27/13 22:50
Benzo(a)pyrene	400		160	320	µg/Kg-dry	10	08/27/13 22:50
Benzo(b)fluoranthene	1,000		170	320	µg/Kg-dry	10	08/27/13 22:50
Benzo(g,h,i)perylene	550		250	320	µg/Kg-dry	10	08/27/13 22:50
Benzo(k)fluoranthene	300	J	140	320	µg/Kg-dry	10	08/27/13 22:50
Chrysene	690		120	320	µg/Kg-dry	10	08/27/13 22:50
Dibenzo(a,h)anthracene	U		180	320	µg/Kg-dry	10	08/27/13 22:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-108
Collection Date: 08/20/13 04:25 PM

Work Order: 1308936
Lab ID: 1308936-41
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluoranthene	900		130	320	µg/Kg-dry	10	08/27/13 22:50
Fluorene	U		92	320	µg/Kg-dry	10	08/27/13 22:50
Indeno(1,2,3-cd)pyrene	480		200	320	µg/Kg-dry	10	08/27/13 22:50
Naphthalene	U		90	320	µg/Kg-dry	10	08/27/13 22:50
Phenanthrene	550		320	320	µg/Kg-dry	10	08/27/13 22:50
Pyrene	770		130	320	µg/Kg-dry	10	08/27/13 22:50
Surr: 2-Fluorobiphenyl	69.4			12-100	%REC	10	08/27/13 22:50
Surr: 4-Terphenyl-d14	103			25-137	%REC	10	08/27/13 22:50
Surr: Nitrobenzene-d5	44.0			37-107	%REC	10	08/27/13 22:50
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/27/13		Analyst: AK
<u>BatchID: 50856</u>							
1,1,1-Trichloroethane	U		12	33	µg/Kg-dry	1	08/28/13 06:38
1,1,2,2-Tetrachloroethane	U		14	33	µg/Kg-dry	1	08/28/13 06:38
1,1,2-Trichloroethane	U		12	33	µg/Kg-dry	1	08/28/13 06:38
1,1,2-Trichlorotrifluoroethane	U		12	33	µg/Kg-dry	1	08/28/13 06:38
1,1-Dichloroethane	U		12	33	µg/Kg-dry	1	08/28/13 06:38
1,1-Dichloroethene	U		14	33	µg/Kg-dry	1	08/28/13 06:38
1,2,4-Trichlorobenzene	U		17	33	µg/Kg-dry	1	08/28/13 06:38
1,2-Dibromo-3-chloropropane	U		16	33	µg/Kg-dry	1	08/28/13 06:38
1,2-Dibromoethane	U		13	33	µg/Kg-dry	1	08/28/13 06:38
1,2-Dichlorobenzene	U		13	33	µg/Kg-dry	1	08/28/13 06:38
1,2-Dichloroethane	U		15	33	µg/Kg-dry	1	08/28/13 06:38
1,2-Dichloropropane	U		11	33	µg/Kg-dry	1	08/28/13 06:38
1,3-Dichlorobenzene	U		13	33	µg/Kg-dry	1	08/28/13 06:38
1,4-Dichlorobenzene	U		12	33	µg/Kg-dry	1	08/28/13 06:38
2-Butanone	U		81	220	µg/Kg-dry	1	08/28/13 06:38
2-Hexanone	U		8.0	33	µg/Kg-dry	1	08/28/13 06:38
4-Methyl-2-pentanone	U		11	33	µg/Kg-dry	1	08/28/13 06:38
Acetone	U		69	110	µg/Kg-dry	1	08/28/13 06:38
Benzene	U		13	33	µg/Kg-dry	1	08/28/13 06:38
Bromodichloromethane	U		7.3	33	µg/Kg-dry	1	08/28/13 06:38
Bromoform	U		6.4	33	µg/Kg-dry	1	08/28/13 06:38
Bromomethane	U		12	81	µg/Kg-dry	1	08/28/13 06:38
Carbon disulfide	U		16	33	µg/Kg-dry	1	08/28/13 06:38
Carbon tetrachloride	U		9.3	33	µg/Kg-dry	1	08/28/13 06:38
Chlorobenzene	U		13	33	µg/Kg-dry	1	08/28/13 06:38
Chloroethane	U		69	110	µg/Kg-dry	1	08/28/13 06:38
Chloroform	U		13	33	µg/Kg-dry	1	08/28/13 06:38
Chloromethane	U		18	110	µg/Kg-dry	1	08/28/13 06:38

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-108
Collection Date: 08/20/13 04:25 PM

Work Order: 1308936
Lab ID: 1308936-41
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	61		13	33	µg/Kg-dry	1	08/28/13 06:38
cis-1,3-Dichloropropene	U		11	33	µg/Kg-dry	1	08/28/13 06:38
Cyclohexane	U		15	33	µg/Kg-dry	1	08/28/13 06:38
Dibromochloromethane	U		6.0	33	µg/Kg-dry	1	08/28/13 06:38
Dichlorodifluoromethane	U		15	33	µg/Kg-dry	1	08/28/13 06:38
Ethylbenzene	U		12	33	µg/Kg-dry	1	08/28/13 06:38
Isopropylbenzene	U		14	33	µg/Kg-dry	1	08/28/13 06:38
Methyl acetate	U		44	220	µg/Kg-dry	1	08/28/13 06:38
Methyl tert-butyl ether	U		14	33	µg/Kg-dry	1	08/28/13 06:38
Methylcyclohexane	U		15	33	µg/Kg-dry	1	08/28/13 06:38
Methylene chloride	U		13	33	µg/Kg-dry	1	08/28/13 06:38
Styrene	U		12	33	µg/Kg-dry	1	08/28/13 06:38
Tetrachloroethene	U		14	33	µg/Kg-dry	1	08/28/13 06:38
Toluene	U		12	33	µg/Kg-dry	1	08/28/13 06:38
trans-1,2-Dichloroethene	U		10	33	µg/Kg-dry	1	08/28/13 06:38
trans-1,3-Dichloropropene	U		11	33	µg/Kg-dry	1	08/28/13 06:38
Trichloroethene	4,300		15	33	µg/Kg-dry	1	08/28/13 06:38
Trichlorofluoromethane	U		9.0	33	µg/Kg-dry	1	08/28/13 06:38
Vinyl chloride	U		15	33	µg/Kg-dry	1	08/28/13 06:38
Xylenes, Total	U		38	98	µg/Kg-dry	1	08/28/13 06:38
Surr: 1,2-Dichloroethane-d4	97.0			70-130	%REC	1	08/28/13 06:38
Surr: 4-Bromofluorobenzene	101			70-130	%REC	1	08/28/13 06:38
Surr: Dibromofluoromethane	96.4			70-130	%REC	1	08/28/13 06:38
Surr: Toluene-d8	95.8			70-130	%REC	1	08/28/13 06:38
MOISTURE			A2540 G			Analyst: EE	
BatchID: R125773							
Moisture	6.5		0.025	0.050	% of sample	1	08/27/13 09:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-109
Collection Date: 08/20/13 04:30 PM

Work Order: 1308936
Lab ID: 1308936-42
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/29/13	Analyst: LR
<u>BatchID: 50891</u>							
Mercury	0.025	J	0.00079	0.039	mg/Kg-dry	1	08/30/13 09:32
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/27/13	Analyst: ML
<u>BatchID: 50866</u>							
Antimony	6.6		0.0015	0.38	mg/Kg-dry	1	08/28/13 18:30
Arsenic	5.7		0.051	0.38	mg/Kg-dry	1	08/28/13 18:30
Barium	76		0.011	0.38	mg/Kg-dry	1	08/28/13 18:30
Beryllium	0.14	J	0.0030	0.15	mg/Kg-dry	1	08/28/13 18:30
Cadmium	2.7		0.0015	0.15	mg/Kg-dry	1	08/28/13 18:30
Cobalt	22		0.0015	0.38	mg/Kg-dry	1	08/28/13 18:30
Copper	120		0.074	0.38	mg/Kg-dry	1	08/28/13 18:30
Molybdenum	86		0.017	0.38	mg/Kg-dry	1	08/28/13 18:30
Selenium	0.32	J	0.048	0.38	mg/Kg-dry	1	08/28/13 18:30
Silver	3.7		0.0015	0.38	mg/Kg-dry	1	08/28/13 18:30
Thallium	U		0.0090	0.38	mg/Kg-dry	1	08/28/13 18:30
Vanadium	U		0.023	0.38	mg/Kg-dry	1	08/28/13 18:30
Zinc	130		0.032	0.75	mg/Kg-dry	1	08/28/13 18:30
<u>BatchID: 50866</u>							
Chromium	360		0.62	3.8	mg/Kg-dry	10	08/29/13 09:48
Iron	35,000		13	60	mg/Kg-dry	10	08/29/13 09:48
Lead	410		0.015	3.8	mg/Kg-dry	10	08/29/13 09:48
Manganese	810		0.33	3.8	mg/Kg-dry	10	08/29/13 09:48
Nickel	260		0.38	3.8	mg/Kg-dry	10	08/29/13 09:48
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/27/13	Analyst: HL
<u>BatchID: 50831</u>							
2-Methylnaphthalene	U		100	840	µg/Kg-dry	10	08/27/13 23:11
Acenaphthene	U		96	320	µg/Kg-dry	10	08/27/13 23:11
Acenaphthylene	U		100	320	µg/Kg-dry	10	08/27/13 23:11
Anthracene	220	J	110	320	µg/Kg-dry	10	08/27/13 23:11
Benzo(a)anthracene	720		130	320	µg/Kg-dry	10	08/27/13 23:11
Benzo(a)pyrene	620		160	320	µg/Kg-dry	10	08/27/13 23:11
Benzo(b)fluoranthene	1,000		170	320	µg/Kg-dry	10	08/27/13 23:11
Benzo(g,h,i)perylene	460		250	320	µg/Kg-dry	10	08/27/13 23:11
Benzo(k)fluoranthene	380		140	320	µg/Kg-dry	10	08/27/13 23:11
Chrysene	700		120	320	µg/Kg-dry	10	08/27/13 23:11
Dibenzo(a,h)anthracene	U		180	320	µg/Kg-dry	10	08/27/13 23:11
Fluoranthene	1,300		130	320	µg/Kg-dry	10	08/27/13 23:11

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-109
Collection Date: 08/20/13 04:30 PM

Work Order: 1308936
Lab ID: 1308936-42
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		92	320	µg/Kg-dry	10	08/27/13 23:11
Indeno(1,2,3-cd)pyrene	470		200	320	µg/Kg-dry	10	08/27/13 23:11
Naphthalene	U		90	320	µg/Kg-dry	10	08/27/13 23:11
Phenanthrene	930		320	320	µg/Kg-dry	10	08/27/13 23:11
Pyrene	1,200		130	320	µg/Kg-dry	10	08/27/13 23:11
Surr: 2-Fluorobiphenyl	71.8			12-100	%REC	10	08/27/13 23:11
Surr: 4-Terphenyl-d14	114			25-137	%REC	10	08/27/13 23:11
Surr: Nitrobenzene-d5	50.6			37-107	%REC	10	08/27/13 23:11
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/27/13		Analyst: AK
BatchID: 50856							
1,1,1-Trichloroethane	U		14	37	µg/Kg-dry	1	08/28/13 07:03
1,1,2,2-Tetrachloroethane	U		16	37	µg/Kg-dry	1	08/28/13 07:03
1,1,2-Trichloroethane	U		13	37	µg/Kg-dry	1	08/28/13 07:03
1,1,2-Trichlorotrifluoroethane	U		14	37	µg/Kg-dry	1	08/28/13 07:03
1,1-Dichloroethane	U		13	37	µg/Kg-dry	1	08/28/13 07:03
1,1-Dichloroethene	U		15	37	µg/Kg-dry	1	08/28/13 07:03
1,2,4-Trichlorobenzene	U		19	37	µg/Kg-dry	1	08/28/13 07:03
1,2-Dibromo-3-chloropropane	U		18	37	µg/Kg-dry	1	08/28/13 07:03
1,2-Dibromoethane	U		14	37	µg/Kg-dry	1	08/28/13 07:03
1,2-Dichlorobenzene	U		15	37	µg/Kg-dry	1	08/28/13 07:03
1,2-Dichloroethane	U		17	37	µg/Kg-dry	1	08/28/13 07:03
1,2-Dichloropropane	U		12	37	µg/Kg-dry	1	08/28/13 07:03
1,3-Dichlorobenzene	U		15	37	µg/Kg-dry	1	08/28/13 07:03
1,4-Dichlorobenzene	U		14	37	µg/Kg-dry	1	08/28/13 07:03
2-Butanone	U		91	240	µg/Kg-dry	1	08/28/13 07:03
2-Hexanone	U		9.0	37	µg/Kg-dry	1	08/28/13 07:03
4-Methyl-2-pentanone	U		12	37	µg/Kg-dry	1	08/28/13 07:03
Acetone	U		78	120	µg/Kg-dry	1	08/28/13 07:03
Benzene	50		15	37	µg/Kg-dry	1	08/28/13 07:03
Bromodichloromethane	U		8.2	37	µg/Kg-dry	1	08/28/13 07:03
Bromoform	U		7.2	37	µg/Kg-dry	1	08/28/13 07:03
Bromomethane	U		14	92	µg/Kg-dry	1	08/28/13 07:03
Carbon disulfide	U		18	37	µg/Kg-dry	1	08/28/13 07:03
Carbon tetrachloride	U		10	37	µg/Kg-dry	1	08/28/13 07:03
Chlorobenzene	U		15	37	µg/Kg-dry	1	08/28/13 07:03
Chloroethane	U		78	120	µg/Kg-dry	1	08/28/13 07:03
Chloroform	U		15	37	µg/Kg-dry	1	08/28/13 07:03
Chloromethane	U		20	120	µg/Kg-dry	1	08/28/13 07:03
cis-1,2-Dichloroethene	U		15	37	µg/Kg-dry	1	08/28/13 07:03

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-109
Collection Date: 08/20/13 04:30 PM

Work Order: 1308936
Lab ID: 1308936-42
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		13	37	µg/Kg-dry	1	08/28/13 07:03
Cyclohexane	U		16	37	µg/Kg-dry	1	08/28/13 07:03
Dibromochloromethane	U		6.8	37	µg/Kg-dry	1	08/28/13 07:03
Dichlorodifluoromethane	U		17	37	µg/Kg-dry	1	08/28/13 07:03
Ethylbenzene	64		14	37	µg/Kg-dry	1	08/28/13 07:03
Isopropylbenzene	40		16	37	µg/Kg-dry	1	08/28/13 07:03
Methyl acetate	U		49	240	µg/Kg-dry	1	08/28/13 07:03
Methyl tert-butyl ether	U		16	37	µg/Kg-dry	1	08/28/13 07:03
Methylcyclohexane	200		17	37	µg/Kg-dry	1	08/28/13 07:03
Methylene chloride	U		14	37	µg/Kg-dry	1	08/28/13 07:03
Styrene	U		14	37	µg/Kg-dry	1	08/28/13 07:03
Tetrachloroethene	U		16	37	µg/Kg-dry	1	08/28/13 07:03
Toluene	350		14	37	µg/Kg-dry	1	08/28/13 07:03
trans-1,2-Dichloroethene	U		11	37	µg/Kg-dry	1	08/28/13 07:03
trans-1,3-Dichloropropene	U		12	37	µg/Kg-dry	1	08/28/13 07:03
Trichloroethene	3,600		17	37	µg/Kg-dry	1	08/28/13 07:03
Trichlorofluoromethane	U		10	37	µg/Kg-dry	1	08/28/13 07:03
Vinyl chloride	U		17	37	µg/Kg-dry	1	08/28/13 07:03
Xylenes, Total	310		43	110	µg/Kg-dry	1	08/28/13 07:03
Surr: 1,2-Dichloroethane-d4	96.2			70-130	%REC	1	08/28/13 07:03
Surr: 4-Bromofluorobenzene	102			70-130	%REC	1	08/28/13 07:03
Surr: Dibromofluoromethane	95.0			70-130	%REC	1	08/28/13 07:03
Surr: Toluene-d8	95.6			70-130	%REC	1	08/28/13 07:03
MOISTURE			A2540 G			Analyst: EE	
BatchID: R125773							
Moisture	7.4		0.025	0.050	% of sample	1	08/27/13 09:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-110
Collection Date: 08/20/13 04:35 PM

Work Order: 1308936
Lab ID: 1308936-43
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/29/13	Analyst: LR
BatchID: <u>50891</u>							
Mercury	0.010	J	0.00081	0.040	mg/Kg-dry	1	08/30/13 09:40
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/27/13	Analyst: ML
BatchID: <u>50866</u>							
Antimony	1.5		0.0014	0.35	mg/Kg-dry	1	08/28/13 18:36
Arsenic	1.6		0.048	0.35	mg/Kg-dry	1	08/28/13 18:36
Barium	25		0.0099	0.35	mg/Kg-dry	1	08/28/13 18:36
Beryllium	0.082	J	0.0028	0.14	mg/Kg-dry	1	08/28/13 18:36
Cadmium	0.23		0.0014	0.14	mg/Kg-dry	1	08/28/13 18:36
Chromium	8.9		0.058	0.35	mg/Kg-dry	1	08/28/13 18:36
Cobalt	1.9		0.0014	0.35	mg/Kg-dry	1	08/28/13 18:36
Copper	27		0.069	0.35	mg/Kg-dry	1	08/28/13 18:36
Iron	4,500		1.2	5.6	mg/Kg-dry	1	08/28/13 18:36
Lead	41		0.0014	0.35	mg/Kg-dry	1	08/28/13 18:36
Manganese	120		0.031	0.35	mg/Kg-dry	1	08/28/13 18:36
Molybdenum	1.1		0.015	0.35	mg/Kg-dry	1	08/28/13 18:36
Nickel	7.7		0.035	0.35	mg/Kg-dry	1	08/28/13 18:36
Selenium	0.23	J	0.045	0.35	mg/Kg-dry	1	08/28/13 18:36
Silver	0.057	J	0.0014	0.35	mg/Kg-dry	1	08/28/13 18:36
Thallium	U		0.0084	0.35	mg/Kg-dry	1	08/28/13 18:36
Vanadium	6.4		0.021	0.35	mg/Kg-dry	1	08/28/13 18:36
Zinc	32		0.030	0.70	mg/Kg-dry	1	08/28/13 18:36
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/27/13	Analyst: HL
BatchID: <u>50831</u>							
2-Methylnaphthalene	U		100	840	µg/Kg-dry	10	08/27/13 23:33
Acenaphthene	310		95	310	µg/Kg-dry	10	08/27/13 23:33
Acenaphthylene	U		99	310	µg/Kg-dry	10	08/27/13 23:33
Anthracene	360		110	310	µg/Kg-dry	10	08/27/13 23:33
Benzo(a)anthracene	930		130	310	µg/Kg-dry	10	08/27/13 23:33
Benzo(a)pyrene	750		160	310	µg/Kg-dry	10	08/27/13 23:33
Benzo(b)fluoranthene	1,100		170	310	µg/Kg-dry	10	08/27/13 23:33
Benzo(g,h,i)perylene	430		250	310	µg/Kg-dry	10	08/27/13 23:33
Benzo(k)fluoranthene	370		140	310	µg/Kg-dry	10	08/27/13 23:33
Chrysene	870		120	310	µg/Kg-dry	10	08/27/13 23:33
Dibenzo(a,h)anthracene	U		180	310	µg/Kg-dry	10	08/27/13 23:33
Fluoranthene	2,100		120	310	µg/Kg-dry	10	08/27/13 23:33
Fluorene	240	J	91	310	µg/Kg-dry	10	08/27/13 23:33

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-110
Collection Date: 08/20/13 04:35 PM

Work Order: 1308936
Lab ID: 1308936-43
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	450		200	310	µg/Kg-dry	10	08/27/13 23:33
Naphthalene	U		89	310	µg/Kg-dry	10	08/27/13 23:33
Phenanthrene	1,600		310	310	µg/Kg-dry	10	08/27/13 23:33
Pyrene	1,600		130	310	µg/Kg-dry	10	08/27/13 23:33
Surr: 2-Fluorobiphenyl	64.8			12-100	%REC	10	08/27/13 23:33
Surr: 4-Terphenyl-d14	88.6			25-137	%REC	10	08/27/13 23:33
Surr: Nitrobenzene-d5	49.6			37-107	%REC	10	08/27/13 23:33
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/27/13		Analyst: AK
BatchID: 50856							
1,1,1-Trichloroethane	U		14	37	µg/Kg-dry	1	08/28/13 07:27
1,1,2,2-Tetrachloroethane	U		16	37	µg/Kg-dry	1	08/28/13 07:27
1,1,2-Trichloroethane	U		13	37	µg/Kg-dry	1	08/28/13 07:27
1,1,2-Trichlorotrifluoroethane	U		14	37	µg/Kg-dry	1	08/28/13 07:27
1,1-Dichloroethane	U		13	37	µg/Kg-dry	1	08/28/13 07:27
1,1-Dichloroethene	U		15	37	µg/Kg-dry	1	08/28/13 07:27
1,2,4-Trichlorobenzene	U		19	37	µg/Kg-dry	1	08/28/13 07:27
1,2-Dibromo-3-chloropropane	U		18	37	µg/Kg-dry	1	08/28/13 07:27
1,2-Dibromoethane	U		14	37	µg/Kg-dry	1	08/28/13 07:27
1,2-Dichlorobenzene	U		15	37	µg/Kg-dry	1	08/28/13 07:27
1,2-Dichloroethane	U		17	37	µg/Kg-dry	1	08/28/13 07:27
1,2-Dichloropropane	U		12	37	µg/Kg-dry	1	08/28/13 07:27
1,3-Dichlorobenzene	U		15	37	µg/Kg-dry	1	08/28/13 07:27
1,4-Dichlorobenzene	U		14	37	µg/Kg-dry	1	08/28/13 07:27
2-Butanone	U		91	240	µg/Kg-dry	1	08/28/13 07:27
2-Hexanone	U		9.0	37	µg/Kg-dry	1	08/28/13 07:27
4-Methyl-2-pentanone	U		12	37	µg/Kg-dry	1	08/28/13 07:27
Acetone	U		78	120	µg/Kg-dry	1	08/28/13 07:27
Benzene	U		15	37	µg/Kg-dry	1	08/28/13 07:27
Bromodichloromethane	U		8.2	37	µg/Kg-dry	1	08/28/13 07:27
Bromoform	U		7.2	37	µg/Kg-dry	1	08/28/13 07:27
Bromomethane	U		14	92	µg/Kg-dry	1	08/28/13 07:27
Carbon disulfide	U		18	37	µg/Kg-dry	1	08/28/13 07:27
Carbon tetrachloride	U		10	37	µg/Kg-dry	1	08/28/13 07:27
Chlorobenzene	U		15	37	µg/Kg-dry	1	08/28/13 07:27
Chloroethane	U		78	120	µg/Kg-dry	1	08/28/13 07:27
Chloroform	U		15	37	µg/Kg-dry	1	08/28/13 07:27
Chloromethane	U		20	120	µg/Kg-dry	1	08/28/13 07:27
cis-1,2-Dichloroethene	U		15	37	µg/Kg-dry	1	08/28/13 07:27
cis-1,3-Dichloropropene	U		13	37	µg/Kg-dry	1	08/28/13 07:27

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-110
Collection Date: 08/20/13 04:35 PM

Work Order: 1308936
Lab ID: 1308936-43
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		16	37	µg/Kg-dry	1	08/28/13 07:27
Dibromochloromethane	U		6.8	37	µg/Kg-dry	1	08/28/13 07:27
Dichlorodifluoromethane	U		17	37	µg/Kg-dry	1	08/28/13 07:27
Ethylbenzene	U		14	37	µg/Kg-dry	1	08/28/13 07:27
Isopropylbenzene	U		16	37	µg/Kg-dry	1	08/28/13 07:27
Methyl acetate	U		49	240	µg/Kg-dry	1	08/28/13 07:27
Methyl tert-butyl ether	U		16	37	µg/Kg-dry	1	08/28/13 07:27
Methylcyclohexane	U		17	37	µg/Kg-dry	1	08/28/13 07:27
Methylene chloride	U		14	37	µg/Kg-dry	1	08/28/13 07:27
Styrene	U		14	37	µg/Kg-dry	1	08/28/13 07:27
Tetrachloroethene	U		16	37	µg/Kg-dry	1	08/28/13 07:27
Toluene	U		14	37	µg/Kg-dry	1	08/28/13 07:27
trans-1,2-Dichloroethene	U		11	37	µg/Kg-dry	1	08/28/13 07:27
trans-1,3-Dichloropropene	U		12	37	µg/Kg-dry	1	08/28/13 07:27
Trichloroethene	370		17	37	µg/Kg-dry	1	08/28/13 07:27
Trichlorofluoromethane	U		10	37	µg/Kg-dry	1	08/28/13 07:27
Vinyl chloride	U		17	37	µg/Kg-dry	1	08/28/13 07:27
Xylenes, Total	U		43	110	µg/Kg-dry	1	08/28/13 07:27
Surr: 1,2-Dichloroethane-d4	97.2			70-130	%REC	1	08/28/13 07:27
Surr: 4-Bromofluorobenzene	100			70-130	%REC	1	08/28/13 07:27
Surr: Dibromofluoromethane	92.6			70-130	%REC	1	08/28/13 07:27
Surr: Toluene-d8	95.2			70-130	%REC	1	08/28/13 07:27
MOISTURE			A2540 G				Analyst: EE
BatchID: <u>R125773</u>							
Moisture	6.0		0.025	0.050	% of sample	1	08/27/13 09:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-111
Collection Date: 08/20/13 04:40 PM

Work Order: 1308936
Lab ID: 1308936-44
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471			Prep: SW7471 / 8/29/13	Analyst: LR
BatchID: <u>50891</u>							
Mercury	0.010	J	0.00073	0.036	mg/Kg-dry	1	08/30/13 09:42
METALS BY ICP-MS			SW6020A			Prep: SW3050B / 8/27/13	Analyst: ML
BatchID: <u>50866</u>							
Antimony	0.95		0.0014	0.36	mg/Kg-dry	1	08/28/13 18:42
Arsenic	2.4		0.049	0.36	mg/Kg-dry	1	08/28/13 18:42
Barium	41		0.010	0.36	mg/Kg-dry	1	08/28/13 18:42
Beryllium	0.086	J	0.0029	0.14	mg/Kg-dry	1	08/28/13 18:42
Cadmium	0.64		0.0014	0.14	mg/Kg-dry	1	08/28/13 18:42
Chromium	8.7		0.059	0.36	mg/Kg-dry	1	08/28/13 18:42
Cobalt	2.3		0.0014	0.36	mg/Kg-dry	1	08/28/13 18:42
Copper	39		0.070	0.36	mg/Kg-dry	1	08/28/13 18:42
Iron	5,800		1.2	5.8	mg/Kg-dry	1	08/28/13 18:42
Lead	35		0.0014	0.36	mg/Kg-dry	1	08/28/13 18:42
Manganese	120		0.032	0.36	mg/Kg-dry	1	08/28/13 18:42
Molybdenum	1.4		0.016	0.36	mg/Kg-dry	1	08/28/13 18:42
Nickel	8.7		0.036	0.36	mg/Kg-dry	1	08/28/13 18:42
Selenium	0.26	J	0.046	0.36	mg/Kg-dry	1	08/28/13 18:42
Silver	0.12	J	0.0014	0.36	mg/Kg-dry	1	08/28/13 18:42
Thallium	U		0.0086	0.36	mg/Kg-dry	1	08/28/13 18:42
Vanadium	7.3		0.022	0.36	mg/Kg-dry	1	08/28/13 18:42
Zinc	67		0.030	0.72	mg/Kg-dry	1	08/28/13 18:42
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3541 / 8/27/13	Analyst: HL
BatchID: <u>50831</u>							
2-Methylnaphthalene	U		100	840	µg/Kg-dry	10	08/27/13 23:55
Acenaphthene	U		95	310	µg/Kg-dry	10	08/27/13 23:55
Acenaphthylene	U		99	310	µg/Kg-dry	10	08/27/13 23:55
Anthracene	U		110	310	µg/Kg-dry	10	08/27/13 23:55
Benzo(a)anthracene	380		130	310	µg/Kg-dry	10	08/27/13 23:55
Benzo(a)pyrene	290	J	160	310	µg/Kg-dry	10	08/27/13 23:55
Benzo(b)fluoranthene	410		170	310	µg/Kg-dry	10	08/27/13 23:55
Benzo(g,h,i)perylene	U		250	310	µg/Kg-dry	10	08/27/13 23:55
Benzo(k)fluoranthene	180	J	140	310	µg/Kg-dry	10	08/27/13 23:55
Chrysene	300	J	120	310	µg/Kg-dry	10	08/27/13 23:55
Dibenzo(a,h)anthracene	U		180	310	µg/Kg-dry	10	08/27/13 23:55
Fluoranthene	650		120	310	µg/Kg-dry	10	08/27/13 23:55
Fluorene	U		91	310	µg/Kg-dry	10	08/27/13 23:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-111
Collection Date: 08/20/13 04:40 PM

Work Order: 1308936
Lab ID: 1308936-44
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	230	J	200	310	µg/Kg-dry	10	08/27/13 23:55
Naphthalene	U		89	310	µg/Kg-dry	10	08/27/13 23:55
Phenanthrene	310		310	310	µg/Kg-dry	10	08/27/13 23:55
Pyrene	510		130	310	µg/Kg-dry	10	08/27/13 23:55
Surr: 2-Fluorobiphenyl	72.2			12-100	%REC	10	08/27/13 23:55
Surr: 4-Terphenyl-d14	103			25-137	%REC	10	08/27/13 23:55
Surr: Nitrobenzene-d5	57.6			37-107	%REC	10	08/27/13 23:55
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/27/13		Analyst: AK
BatchID: 50856							
1,1,1-Trichloroethane	U		13	33	µg/Kg-dry	1	08/28/13 07:52
1,1,2,2-Tetrachloroethane	U		15	33	µg/Kg-dry	1	08/28/13 07:52
1,1,2-Trichloroethane	U		12	33	µg/Kg-dry	1	08/28/13 07:52
1,1,2-Trichlorotrifluoroethane	U		12	33	µg/Kg-dry	1	08/28/13 07:52
1,1-Dichloroethane	U		12	33	µg/Kg-dry	1	08/28/13 07:52
1,1-Dichloroethene	U		14	33	µg/Kg-dry	1	08/28/13 07:52
1,2,4-Trichlorobenzene	U		17	33	µg/Kg-dry	1	08/28/13 07:52
1,2-Dibromo-3-chloropropane	U		16	33	µg/Kg-dry	1	08/28/13 07:52
1,2-Dibromoethane	U		13	33	µg/Kg-dry	1	08/28/13 07:52
1,2-Dichlorobenzene	U		13	33	µg/Kg-dry	1	08/28/13 07:52
1,2-Dichloroethane	U		16	33	µg/Kg-dry	1	08/28/13 07:52
1,2-Dichloropropane	U		11	33	µg/Kg-dry	1	08/28/13 07:52
1,3-Dichlorobenzene	U		13	33	µg/Kg-dry	1	08/28/13 07:52
1,4-Dichlorobenzene	U		13	33	µg/Kg-dry	1	08/28/13 07:52
2-Butanone	U		82	220	µg/Kg-dry	1	08/28/13 07:52
2-Hexanone	U		8.1	33	µg/Kg-dry	1	08/28/13 07:52
4-Methyl-2-pentanone	U		11	33	µg/Kg-dry	1	08/28/13 07:52
Acetone	U		70	110	µg/Kg-dry	1	08/28/13 07:52
Benzene	U		13	33	µg/Kg-dry	1	08/28/13 07:52
Bromodichloromethane	U		7.4	33	µg/Kg-dry	1	08/28/13 07:52
Bromoform	U		6.5	33	µg/Kg-dry	1	08/28/13 07:52
Bromomethane	U		13	83	µg/Kg-dry	1	08/28/13 07:52
Carbon disulfide	U		16	33	µg/Kg-dry	1	08/28/13 07:52
Carbon tetrachloride	U		9.4	33	µg/Kg-dry	1	08/28/13 07:52
Chlorobenzene	U		14	33	µg/Kg-dry	1	08/28/13 07:52
Chloroethane	U		70	110	µg/Kg-dry	1	08/28/13 07:52
Chloroform	U		14	33	µg/Kg-dry	1	08/28/13 07:52
Chloromethane	U		18	110	µg/Kg-dry	1	08/28/13 07:52
cis-1,2-Dichloroethene	U		13	33	µg/Kg-dry	1	08/28/13 07:52
cis-1,3-Dichloropropene	U		11	33	µg/Kg-dry	1	08/28/13 07:52

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-111
Collection Date: 08/20/13 04:40 PM

Work Order: 1308936
Lab ID: 1308936-44
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		15	33	µg/Kg-dry	1	08/28/13 07:52
Dibromochloromethane	U		6.1	33	µg/Kg-dry	1	08/28/13 07:52
Dichlorodifluoromethane	U		15	33	µg/Kg-dry	1	08/28/13 07:52
Ethylbenzene	U		12	33	µg/Kg-dry	1	08/28/13 07:52
Isopropylbenzene	U		14	33	µg/Kg-dry	1	08/28/13 07:52
Methyl acetate	340		45	220	µg/Kg-dry	1	08/28/13 07:52
Methyl tert-butyl ether	U		14	33	µg/Kg-dry	1	08/28/13 07:52
Methylcyclohexane	U		15	33	µg/Kg-dry	1	08/28/13 07:52
Methylene chloride	U		13	33	µg/Kg-dry	1	08/28/13 07:52
Styrene	U		12	33	µg/Kg-dry	1	08/28/13 07:52
Tetrachloroethene	U		15	33	µg/Kg-dry	1	08/28/13 07:52
Toluene	U		12	33	µg/Kg-dry	1	08/28/13 07:52
trans-1,2-Dichloroethene	U		10	33	µg/Kg-dry	1	08/28/13 07:52
trans-1,3-Dichloropropene	U		11	33	µg/Kg-dry	1	08/28/13 07:52
Trichloroethene	690		16	33	µg/Kg-dry	1	08/28/13 07:52
Trichlorofluoromethane	U		9.1	33	µg/Kg-dry	1	08/28/13 07:52
Vinyl chloride	U		15	33	µg/Kg-dry	1	08/28/13 07:52
Xylenes, Total	U		39	100	µg/Kg-dry	1	08/28/13 07:52
Surr: 1,2-Dichloroethane-d4	97.6			70-130	%REC	1	08/28/13 07:52
Surr: 4-Bromofluorobenzene	103			70-130	%REC	1	08/28/13 07:52
Surr: Dibromofluoromethane	94.6			70-130	%REC	1	08/28/13 07:52
Surr: Toluene-d8	96.6			70-130	%REC	1	08/28/13 07:52
MOISTURE			A2540 G				Analyst: EE
BatchID: <u>R125773</u>							
Moisture	6.8		0.025	0.050	% of sample	1	08/27/13 09:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-112
Collection Date: 08/20/13 04:45 PM

Work Order: 1308936
Lab ID: 1308936-45
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/29/13	Analyst: LR
BatchID: 50891							
Mercury	0.011	J	0.00078	0.039	mg/Kg-dry	1	08/30/13 09:44
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/27/13	Analyst: ML
BatchID: 50866							
Antimony	5.4		0.0015	0.38	mg/Kg-dry	1	08/28/13 18:48
Arsenic	2.4		0.051	0.38	mg/Kg-dry	1	08/28/13 18:48
Barium	86		0.011	0.38	mg/Kg-dry	1	08/28/13 18:48
Beryllium	0.084	J	0.0030	0.15	mg/Kg-dry	1	08/28/13 18:48
Cadmium	0.38		0.0015	0.15	mg/Kg-dry	1	08/28/13 18:48
Chromium	9.0		0.062	0.38	mg/Kg-dry	1	08/28/13 18:48
Cobalt	2.5		0.0015	0.38	mg/Kg-dry	1	08/28/13 18:48
Copper	33		0.074	0.38	mg/Kg-dry	1	08/28/13 18:48
Iron	5,700		1.3	6.0	mg/Kg-dry	1	08/28/13 18:48
Lead	25		0.0015	0.38	mg/Kg-dry	1	08/28/13 18:48
Molybdenum	2.4		0.017	0.38	mg/Kg-dry	1	08/28/13 18:48
Nickel	11		0.038	0.38	mg/Kg-dry	1	08/28/13 18:48
Selenium	0.27	J	0.048	0.38	mg/Kg-dry	1	08/28/13 18:48
Silver	0.33	J	0.0015	0.38	mg/Kg-dry	1	08/28/13 18:48
Thallium	U		0.0091	0.38	mg/Kg-dry	1	08/28/13 18:48
Vanadium	7.6		0.023	0.38	mg/Kg-dry	1	08/28/13 18:48
Zinc	76		0.032	0.76	mg/Kg-dry	1	08/28/13 18:48
BatchID: 50866							
Manganese	190		0.33	3.8	mg/Kg-dry	10	08/29/13 09:55
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/27/13	Analyst: HL
BatchID: 50831							
2-Methylnaphthalene	U		10	85	µg/Kg-dry	1	08/27/13 17:22
Acenaphthene	24	J	9.6	32	µg/Kg-dry	1	08/27/13 17:22
Acenaphthylene	U		10	32	µg/Kg-dry	1	08/27/13 17:22
Anthracene	53		11	32	µg/Kg-dry	1	08/27/13 17:22
Benzo(a)anthracene	200		13	32	µg/Kg-dry	1	08/27/13 17:22
Benzo(a)pyrene	210		16	32	µg/Kg-dry	1	08/27/13 17:22
Benzo(b)fluoranthene	330		17	32	µg/Kg-dry	1	08/27/13 17:22
Benzo(g,h,i)perylene	160		25	32	µg/Kg-dry	1	08/27/13 17:22
Benzo(k)fluoranthene	110		14	32	µg/Kg-dry	1	08/27/13 17:22
Chrysene	210		12	32	µg/Kg-dry	1	08/27/13 17:22
Dibenzo(a,h)anthracene	38		18	32	µg/Kg-dry	1	08/27/13 17:22
Fluoranthene	410		13	32	µg/Kg-dry	1	08/27/13 17:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-112
Collection Date: 08/20/13 04:45 PM

Work Order: 1308936
Lab ID: 1308936-45
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	19	J	9.2	32	µg/Kg-dry	1	08/27/13 17:22
Indeno(1,2,3-cd)pyrene	160		20	32	µg/Kg-dry	1	08/27/13 17:22
Naphthalene	U		9.0	32	µg/Kg-dry	1	08/27/13 17:22
Phenanthrene	220		32	32	µg/Kg-dry	1	08/27/13 17:22
Pyrene	360		13	32	µg/Kg-dry	1	08/27/13 17:22
Surr: 2-Fluorobiphenyl	76.6			12-100	%REC	1	08/27/13 17:22
Surr: 4-Terphenyl-d14	104			25-137	%REC	1	08/27/13 17:22
Surr: Nitrobenzene-d5	59.2			37-107	%REC	1	08/27/13 17:22
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/27/13		Analyst: AK
BatchID: 50856							
1,1,1-Trichloroethane	U		13	35	µg/Kg-dry	1	08/28/13 08:16
1,1,2,2-Tetrachloroethane	U		15	35	µg/Kg-dry	1	08/28/13 08:16
1,1,2-Trichloroethane	U		12	35	µg/Kg-dry	1	08/28/13 08:16
1,1,2-Trichlorotrifluoroethane	U		13	35	µg/Kg-dry	1	08/28/13 08:16
1,1-Dichloroethane	U		13	35	µg/Kg-dry	1	08/28/13 08:16
1,1-Dichloroethene	U		15	35	µg/Kg-dry	1	08/28/13 08:16
1,2,4-Trichlorobenzene	U		18	35	µg/Kg-dry	1	08/28/13 08:16
1,2-Dibromo-3-chloropropane	U		17	35	µg/Kg-dry	1	08/28/13 08:16
1,2-Dibromoethane	U		14	35	µg/Kg-dry	1	08/28/13 08:16
1,2-Dichlorobenzene	U		14	35	µg/Kg-dry	1	08/28/13 08:16
1,2-Dichloroethane	U		16	35	µg/Kg-dry	1	08/28/13 08:16
1,2-Dichloropropane	U		11	35	µg/Kg-dry	1	08/28/13 08:16
1,3-Dichlorobenzene	U		14	35	µg/Kg-dry	1	08/28/13 08:16
1,4-Dichlorobenzene	U		13	35	µg/Kg-dry	1	08/28/13 08:16
2-Butanone	U		86	230	µg/Kg-dry	1	08/28/13 08:16
2-Hexanone	U		8.5	35	µg/Kg-dry	1	08/28/13 08:16
4-Methyl-2-pentanone	U		12	35	µg/Kg-dry	1	08/28/13 08:16
Acetone	U		73	120	µg/Kg-dry	1	08/28/13 08:16
Benzene	U		14	35	µg/Kg-dry	1	08/28/13 08:16
Bromodichloromethane	U		7.8	35	µg/Kg-dry	1	08/28/13 08:16
Bromoform	U		6.8	35	µg/Kg-dry	1	08/28/13 08:16
Bromomethane	U		13	86	µg/Kg-dry	1	08/28/13 08:16
Carbon disulfide	U		17	35	µg/Kg-dry	1	08/28/13 08:16
Carbon tetrachloride	U		9.8	35	µg/Kg-dry	1	08/28/13 08:16
Chlorobenzene	U		14	35	µg/Kg-dry	1	08/28/13 08:16
Chloroethane	U		73	120	µg/Kg-dry	1	08/28/13 08:16
Chloroform	U		14	35	µg/Kg-dry	1	08/28/13 08:16
Chloromethane	U		19	120	µg/Kg-dry	1	08/28/13 08:16
cis-1,2-Dichloroethene	U		14	35	µg/Kg-dry	1	08/28/13 08:16

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 30-Aug-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082013-MR-112
Collection Date: 08/20/13 04:45 PM

Work Order: 1308936
Lab ID: 1308936-45
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		12	35	µg/Kg-dry	1	08/28/13 08:16
Cyclohexane	U		16	35	µg/Kg-dry	1	08/28/13 08:16
Dibromochloromethane	U		6.4	35	µg/Kg-dry	1	08/28/13 08:16
Dichlorodifluoromethane	U		16	35	µg/Kg-dry	1	08/28/13 08:16
Ethylbenzene	U		13	35	µg/Kg-dry	1	08/28/13 08:16
Isopropylbenzene	U		15	35	µg/Kg-dry	1	08/28/13 08:16
Methyl acetate	U		46	230	µg/Kg-dry	1	08/28/13 08:16
Methyl tert-butyl ether	U		15	35	µg/Kg-dry	1	08/28/13 08:16
Methylcyclohexane	U		16	35	µg/Kg-dry	1	08/28/13 08:16
Methylene chloride	U		14	35	µg/Kg-dry	1	08/28/13 08:16
Styrene	U		13	35	µg/Kg-dry	1	08/28/13 08:16
Tetrachloroethene	U		15	35	µg/Kg-dry	1	08/28/13 08:16
Toluene	U		13	35	µg/Kg-dry	1	08/28/13 08:16
trans-1,2-Dichloroethene	U		11	35	µg/Kg-dry	1	08/28/13 08:16
trans-1,3-Dichloropropene	U		12	35	µg/Kg-dry	1	08/28/13 08:16
Trichloroethene	420		16	35	µg/Kg-dry	1	08/28/13 08:16
Trichlorofluoromethane	U		9.5	35	µg/Kg-dry	1	08/28/13 08:16
Vinyl chloride	U		16	35	µg/Kg-dry	1	08/28/13 08:16
Xylenes, Total	U		41	100	µg/Kg-dry	1	08/28/13 08:16
Surr: 1,2-Dichloroethane-d4	97.7			70-130	%REC	1	08/28/13 08:16
Surr: 4-Bromofluorobenzene	104			70-130	%REC	1	08/28/13 08:16
Surr: Dibromofluoromethane	96.0			70-130	%REC	1	08/28/13 08:16
Surr: Toluene-d8	97.5			70-130	%REC	1	08/28/13 08:16
MOISTURE			A2540 G			Analyst: EE	
BatchID: R125773							
Moisture	6.1		0.025	0.050	% of sample	1	08/27/13 09:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50800** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-50800-50800				Units: mg/Kg		Analysis Date: 08/26/13 05:02 PM		
Client ID:		Run ID: HG1_130826A				SeqNo: 2425545		Prep Date: 08/26/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.003167	0.020								J

LCS		Sample ID: LCS-50800-50800				Units: mg/Kg		Analysis Date: 08/26/13 05:04 PM		
Client ID:		Run ID: HG1_130826A				SeqNo: 2425546		Prep Date: 08/26/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1935	0.020	0.1665	0	116	80-120	0			

MS		Sample ID: 1308936-16BMS				Units: mg/Kg		Analysis Date: 08/26/13 06:31 PM		
Client ID: SO-17360-082013-MR-082		Run ID: HG1_130826A				SeqNo: 2425582		Prep Date: 08/26/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1499	0.015	0.1226	0.01113	113	75-125	0			

MSD		Sample ID: 1308936-16BMSD				Units: mg/Kg		Analysis Date: 08/26/13 06:33 PM		
Client ID: SO-17360-082013-MR-082		Run ID: HG1_130826A				SeqNo: 2425583		Prep Date: 08/26/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1562	0.015	0.1243	0.01113	117	75-125	0.1499	4.1	35	

The following samples were analyzed in this batch:

1308936-01B	1308936-02B	1308936-03B
1308936-04B	1308936-05B	1308936-06B
1308936-07B	1308936-08B	1308936-09B
1308936-10B	1308936-11B	1308936-12B
1308936-13B	1308936-14B	1308936-15B
1308936-16B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50875** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-50875-50875				Units: mg/Kg		Analysis Date: 08/28/13 03:20 PM		
Client ID:		Run ID: HG1_130828A				SeqNo: 2427950		Prep Date: 08/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury U 0.020

LCS		Sample ID: LCS-50875-50875				Units: mg/Kg		Analysis Date: 08/28/13 03:22 PM		
Client ID:		Run ID: HG1_130828A				SeqNo: 2427951		Prep Date: 08/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1736 0.020 0.1665 0 104 80-120 0

MS		Sample ID: 1308936-25BMS				Units: mg/Kg		Analysis Date: 08/28/13 03:38 PM		
Client ID: SO-17360-082013-MR-091		Run ID: HG1_130828A				SeqNo: 2427957		Prep Date: 08/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1385 0.015 0.1246 0.005854 107 75-125 0

MSD		Sample ID: 1308936-25BMSD				Units: mg/Kg		Analysis Date: 08/28/13 03:40 PM		
Client ID: SO-17360-082013-MR-091		Run ID: HG1_130828A				SeqNo: 2427958		Prep Date: 08/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1382 0.015 0.1224 0.005854 108 75-125 0.1385 0.212 35

The following samples were analyzed in this batch:

1308936-17B	1308936-18B	1308936-19B
1308936-20B	1308936-21B	1308936-22B
1308936-23B	1308936-24B	1308936-25B
1308936-26B	1308936-27B	1308936-28B
1308936-29B	1308936-30B	1308936-31B
1308936-32B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50891** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-50891-50891				Units: mg/Kg		Analysis Date: 08/30/13 08:47 AM		
Client ID:		Run ID: HG1_130830A				SeqNo: 2430275		Prep Date: 08/29/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury U 0.020

LCS		Sample ID: LCS-50891-50891				Units: mg/Kg		Analysis Date: 08/30/13 08:49 AM		
Client ID:		Run ID: HG1_130830A				SeqNo: 2430276		Prep Date: 08/29/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1728 0.020 0.1665 0 104 80-120 0

MS		Sample ID: 1308936-40BMS				Units: mg/Kg		Analysis Date: 08/30/13 09:26 AM		
Client ID: SO-17360-082013-MR-106		Run ID: HG1_130830A				SeqNo: 2430294		Prep Date: 08/29/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1438 0.015 0.1209 0.01481 107 75-125 0

MSD		Sample ID: 1308936-40BMSD				Units: mg/Kg		Analysis Date: 08/30/13 09:28 AM		
Client ID: SO-17360-082013-MR-106		Run ID: HG1_130830A				SeqNo: 2430295		Prep Date: 08/29/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1489 0.015 0.1241 0.01481 108 75-125 0.1438 3.54 35

The following samples were analyzed in this batch:

1308936-33B	1308936-34B	1308936-35B
1308936-36B	1308936-37B	1308936-38B
1308936-39B	1308936-40B	1308936-41B
1308936-42B	1308936-43B	1308936-44B
1308936-45B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50801** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-50801-50801				Units: mg/Kg		Analysis Date: 08/27/13 11:21 PM		
Client ID:		Run ID: ICPMS1_130827A				SeqNo: 2427225		Prep Date: 08/26/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.004851	0.25								J
Arsenic	U	0.25								
Barium	0.02229	0.25								J
Cadmium	0.002562	0.10								J
Chromium	U	0.25								
Cobalt	0.00411	0.25								J
Copper	U	0.25								
Iron	6.84	4.0								
Lead	0.1152	0.25								J
Manganese	0.0977	0.25								J
Molybdenum	0.01166	0.25								J
Nickel	U	0.25								
Selenium	U	0.25								
Silver	0.002779	0.25								J
Thallium	0.03156	0.25								J
Vanadium	0.01816	0.25								J
Zinc	0.08155	0.50								J

MBLK		Sample ID: MBLK-50801-50801				Units: mg/Kg		Analysis Date: 08/28/13 01:11 PM		
Client ID:		Run ID: ICPMS1_130828A				SeqNo: 2427988		Prep Date: 08/26/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	U	0.10								
Iron	6.38	4.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50801** Instrument ID **ICPMS1** Method: **SW6020A**

LCS		Sample ID: LCS-50801-50801				Units: mg/Kg		Analysis Date: 08/27/13 11:46 PM		
Client ID:		Run ID: ICPMS1_130827A				SeqNo: 2427229		Prep Date: 08/26/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	4.944	0.25	5	0	98.9	80-120	0			
Arsenic	4.507	0.25	5	0	90.1	80-120	0			
Barium	5.07	0.25	5	0	101	80-120	0			
Cadmium	4.912	0.10	5	0	98.2	80-120	0			
Chromium	4.95	0.25	5	0	99	80-120	0			
Cobalt	4.897	0.25	5	0	97.9	80-120	0			
Copper	4.916	0.25	5	0	98.3	80-120	0			
Iron	495.3	4.0	500	0	99.1	80-120	0			B
Lead	5.2	0.25	5	0	104	80-120	0			
Manganese	4.999	0.25	5	0	100	80-120	0			
Molybdenum	4.973	0.25	5	0	99.5	80-120	0			
Nickel	4.916	0.25	5	0	98.3	80-120	0			
Selenium	4.464	0.25	5	0	89.3	80-120	0			
Silver	5.185	0.25	5	0	104	80-120	0			
Thallium	4.951	0.25	5	0	99	80-120	0			
Vanadium	5.005	0.25	5	0	100	80-120	0			
Zinc	4.626	0.50	5	0	92.5	80-120	0			

LCS		Sample ID: LCS-50801-50801				Units: mg/Kg		Analysis Date: 08/28/13 02:13 PM		
Client ID:		Run ID: ICPMS1_130828A				SeqNo: 2427995		Prep Date: 08/26/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	4.874	0.10	5	0	97.5	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50801** Instrument ID **ICPMS1** Method: **SW6020A**

MS				Sample ID: 1308936-16BMS			Units: mg/Kg		Analysis Date: 08/28/13 02:33 AM	
Client ID: SO-17360-082013-MR-082				Run ID: ICPMS1_130827A			SeqNo: 2427254		Prep Date: 08/26/13	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	6.675	0.36	7.123	0.04147	93.1	75-125	0			
Arsenic	7.098	0.36	7.123	0.9087	86.9	75-125	0			
Barium	21.02	0.36	7.123	11.01	140	75-125	0			S
Cadmium	6.891	0.14	7.123	0.04248	96.2	75-125	0			
Chromium	10.99	0.36	7.123	3.464	106	75-125	0			
Cobalt	7.821	0.36	7.123	1.233	92.5	75-125	0			
Copper	9.117	0.36	7.123	2.319	95.4	75-125	0			
Iron	4086	11	712.3	3676	57.6	75-125	0			SO
Lead	10.04	0.36	7.123	2.416	107	75-125	0			
Manganese	104.1	0.36	7.123	88.45	219	75-125	0			SO
Molybdenum	7.158	0.36	7.123	0.133	98.6	75-125	0			
Nickel	9.715	0.36	7.123	3.081	93.1	75-125	0			
Selenium	6.237	0.36	7.123	0.2267	84.4	75-125	0			
Silver	6.975	0.36	7.123	0.001591	97.9	75-125	0			
Thallium	7.172	0.36	7.123	0.02576	100	75-125	0			
Vanadium	14.18	0.36	7.123	5.78	118	75-125	0			
Zinc	19.37	0.71	7.123	13.72	79.3	75-125	0			

MS				Sample ID: 1308936-16BMS			Units: mg/Kg		Analysis Date: 08/28/13 10:15 PM	
Client ID: SO-17360-082013-MR-082				Run ID: ICPMS1_130828A			SeqNo: 2428505		Prep Date: 08/26/13	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	5.637	0.14	7.123	0.06043	78.3	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50801** Instrument ID **ICPMS1** Method: **SW6020A**

MSD				Sample ID: 1308936-16BMSD			Units: mg/Kg		Analysis Date: 08/28/13 02:40 AM	
Client ID: SO-17360-082013-MR-082				Run ID: ICPMS1_130827A			SeqNo: 2427255		Prep Date: 08/26/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	6.806	0.36	7.215	0.04147	93.8	75-125	6.675	1.94	25	
Arsenic	7.222	0.36	7.215	0.9087	87.5	75-125	7.098	1.73	25	
Barium	21	0.36	7.215	11.01	138	75-125	21.02	0.109	25	S
Cadmium	6.726	0.14	7.215	0.04248	92.6	75-125	6.891	2.43	25	
Chromium	11.31	0.36	7.215	3.464	109	75-125	10.99	2.9	25	
Cobalt	8.001	0.36	7.215	1.233	93.8	75-125	7.821	2.29	25	
Copper	9.264	0.36	7.215	2.319	96.3	75-125	9.117	1.6	25	
Iron	4657	12	721.5	3676	136	75-125	4086	13.1	25	SO
Lead	10.34	0.36	7.215	2.416	110	75-125	10.04	2.98	25	
Manganese	113.2	0.36	7.215	88.45	343	75-125	104.1	8.42	25	SO
Molybdenum	7.03	0.36	7.215	0.133	95.6	75-125	7.158	1.8	25	
Nickel	10.13	0.36	7.215	3.081	97.7	75-125	9.715	4.18	25	
Selenium	6.37	0.36	7.215	0.2267	85.1	75-125	6.237	2.11	25	
Silver	6.869	0.36	7.215	0.001591	95.2	75-125	6.975	1.53	25	
Thallium	7.144	0.36	7.215	0.02576	98.7	75-125	7.172	0.392	25	
Vanadium	14.89	0.36	7.215	5.78	126	75-125	14.18	4.89	25	S
Zinc	25.35	0.72	7.215	13.72	161	75-125	19.37	26.7	25	SR

MSD				Sample ID: 1308936-16BMSD			Units: mg/Kg		Analysis Date: 08/28/13 10:22 PM	
Client ID: SO-17360-082013-MR-082				Run ID: ICPMS1_130828A			SeqNo: 2428506		Prep Date: 08/26/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	5.725	0.14	7.215	0.06043	78.5	75-125	5.637	1.54	25	

The following samples were analyzed in this batch:

1308936-01B	1308936-02B	1308936-03B
1308936-04B	1308936-05B	1308936-06B
1308936-07B	1308936-08B	1308936-09B
1308936-10B	1308936-11B	1308936-12B
1308936-13B	1308936-14B	1308936-15B
1308936-16B	1308936-17B	1308936-18B
1308936-19B	1308936-20B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50802** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-50802-50802				Units: mg/Kg		Analysis Date: 08/27/13 04:55 PM		
Client ID:		Run ID: ICPMS1_130827A				SeqNo: 2426902		Prep Date: 08/26/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.25								
Barium	U	0.25								
Cadmium	U	0.10								
Chromium	0.04402	0.25								J
Iron	1.92	4.0								J
Lead	U	0.25								
Silver	U	0.25								

MBLK		Sample ID: MBLK-50802-50802				Units: mg/Kg		Analysis Date: 08/27/13 10:50 PM		
Client ID:		Run ID: ICPMS1_130827A				SeqNo: 2427220		Prep Date: 08/26/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.00181	0.25								J
Cobalt	0.001325	0.25								J
Copper	U	0.25								
Manganese	0.1912	0.25								J
Molybdenum	U	0.25								
Nickel	U	0.25								
Selenium	U	0.25								
Thallium	U	0.25								
Vanadium	0.01908	0.25								J
Zinc	0.1018	0.50								J

MBLK		Sample ID: MBLK-50802-50802				Units: mg/Kg		Analysis Date: 08/28/13 12:47 PM		
Client ID:		Run ID: ICPMS1_130828A				SeqNo: 2427984		Prep Date: 08/26/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	U	0.10								

LCS		Sample ID: LCS-50802-50802				Units: mg/Kg		Analysis Date: 08/27/13 05:01 PM		
Client ID:		Run ID: ICPMS1_130827A				SeqNo: 2426903		Prep Date: 08/26/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.412	0.25	5	0	88.2	80-120	0			
Barium	4.914	0.25	5	0	98.3	80-120	0			
Cadmium	4.684	0.10	5	0	93.7	80-120	0			
Chromium	4.758	0.25	5	0	95.2	80-120	0			
Silver	4.982	0.25	5	0	99.6	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50802** Instrument ID **ICPMS1** Method: **SW6020A**

LCS					Sample ID: LCS-50802-50802			Units: mg/Kg		Analysis Date: 08/27/13 10:56 PM		
Client ID:			Run ID: ICPMS1_130827A			SeqNo: 2427221		Prep Date: 08/26/13		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Antimony	5.015	0.25	5	0	100	80-120	0					
Cobalt	4.962	0.25	5	0	99.2	80-120	0					
Copper	5.01	0.25	5	0	100	80-120	0					
Iron	509	4.0	500	0	102	80-120	0					
Lead	5.555	0.25	5	0	111	80-120	0					
Manganese	5.14	0.25	5	0	103	80-120	0					
Molybdenum	5.025	0.25	5	0	100	80-120	0					
Nickel	4.995	0.25	5	0	99.9	80-120	0					
Selenium	4.44	0.25	5	0	88.8	80-120	0					
Thallium	4.9	0.25	5	0	98	80-120	0					
Vanadium	5.05	0.25	5	0	101	80-120	0					
Zinc	4.698	0.50	5	0	94	80-120	0					

LCS				Sample ID: LCS-50802-50802				Units: mg/Kg			Analysis Date: 08/28/13 12:53 PM			
Client ID:				Run ID: ICPMS1_130828A				SeqNo: 2427985			Prep Date: 08/26/13		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Beryllium		4.387	0.10	5	0	87.7	80-120	0						

MS				Sample ID: 1308936-27BMS			Units: mg/Kg		Analysis Date: 08/27/13 05:13 PM		
Client ID: SO-17360-082013-MR-093			Run ID: ICPMS1_130827A			SeqNo: 2426905		Prep Date: 08/26/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	7.377	0.36	7.246	0.9851	88.2	75-125		0			
Barium	31.95	0.36	7.246	20.21	162	75-125		0		S	
Cadmium	7.014	0.14	7.246	0.02911	96.4	75-125		0			
Chromium	12.17	0.36	7.246	4.533	105	75-125		0			
Silver	6.832	0.36	7.246	0.001415	94.3	75-125		0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50802** Instrument ID **ICPMS1** Method: **SW6020A**

MS					Sample ID: 1308936-27BMS		Units: mg/Kg		Analysis Date: 08/27/13 11:09 PM		
Client ID: SO-17360-082013-MR-093			Run ID: ICPMS1_130827A			SeqNo: 2427223		Prep Date: 08/26/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Antimony	6.529	0.36	7.246	0.05766	89.3	75-125		0			
Cobalt	8.92	0.36	7.246	1.699	99.7	75-125		0			
Copper	9.21	0.36	7.246	1.99	99.6	75-125		0			
Iron	5161	5.8	724.6	4207	132	75-125		0		SO	
Lead	10.85	0.36	7.246	3.326	104	75-125		0			
Manganese	90.22	0.36	7.246	71.84	254	75-125		0		SO	
Molybdenum	7.261	0.36	7.246	0.1663	97.9	75-125		0			
Nickel	11.51	0.36	7.246	3.828	106	75-125		0			
Selenium	6.661	0.36	7.246	0.326	87.4	75-125		0			
Thallium	7.233	0.36	7.246	0.07033	98.8	75-125		0			
Vanadium	18.49	0.36	7.246	8.199	142	75-125		0		S	
Zinc	17.57	0.72	7.246	8.759	122	75-125		0			

MS				Sample ID: 1308936-27BMS				Units: mg/Kg		Analysis Date: 08/28/13 12:59 PM		
Client ID: SO-17360-082013-MR-093				Run ID: ICPMS1_130828A				SeqNo: 2427986		Prep Date: 08/26/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Beryllium	5.725	0.14	7.246	0.09965	77.6	75-125	0					

MSD					Sample ID: 1308936-27BMSD			Units: mg/Kg		Analysis Date: 08/27/13 05:20 PM	
Client ID: SO-17360-082013-MR-093				Run ID: ICPMS1_130827A		SeqNo: 2426906		Prep Date: 08/26/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	7.296	0.35	7.042	0.9851	89.6	75-125	7.377	1.1	25		
Barium	31.09	0.35	7.042	20.21	155	75-125	31.95	2.72	25	S	
Cadmium	6.558	0.14	7.042	0.02911	92.7	75-125	7.014	6.73	25		
Chromium	12.2	0.35	7.042	4.533	109	75-125	12.17	0.308	25		
Silver	6.492	0.35	7.042	0.001415	92.2	75-125	6.832	5.11	25		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50802** Instrument ID **ICPMS1** Method: **SW6020A**

MSD				Sample ID: 1308936-27BMSD			Units: mg/Kg		Analysis Date: 08/27/13 11:15 PM	
Client ID: SO-17360-082013-MR-093				Run ID: ICPMS1_130827A			SeqNo: 2427224		Prep Date: 08/26/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	6.556	0.35	7.042	0.05766	92.3	75-125	6.529	0.407	25	
Cobalt	8.641	0.35	7.042	1.699	98.6	75-125	8.92	3.18	25	
Copper	8.915	0.35	7.042	1.99	98.3	75-125	9.21	3.25	25	
Iron	5396	5.6	704.2	4207	169	75-125	5161	4.45	25	SO
Lead	10.51	0.35	7.042	3.326	102	75-125	10.85	3.19	25	
Manganese	87.39	0.35	7.042	71.84	221	75-125	90.22	3.18	25	SO
Molybdenum	7.063	0.35	7.042	0.1663	97.9	75-125	7.261	2.76	25	
Nickel	11.35	0.35	7.042	3.828	107	75-125	11.51	1.36	25	
Selenium	6.463	0.35	7.042	0.326	87.2	75-125	6.661	3.01	25	
Thallium	7.006	0.35	7.042	0.07033	98.5	75-125	7.233	3.19	25	
Vanadium	18.89	0.35	7.042	8.199	152	75-125	18.49	2.15	25	S
Zinc	17.8	0.70	7.042	8.759	128	75-125	17.57	1.3	25	S

MSD				Sample ID: 1308936-27BMSD			Units: mg/Kg		Analysis Date: 08/28/13 01:05 PM	
Client ID: SO-17360-082013-MR-093				Run ID: ICPMS1_130828A			SeqNo: 2427987		Prep Date: 08/26/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	5.551	0.14	7.042	0.09965	77.4	75-125	5.725	3.07	25	

The following samples were analyzed in this batch:

1308936-21B	1308936-22B	1308936-23B
1308936-24B	1308936-25B	1308936-26B
1308936-27B	1308936-28B	1308936-29B
1308936-30B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50866** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-50866-50866				Units: mg/Kg		Analysis Date: 08/28/13 02:19 PM		
Client ID:		Run ID: ICPMS1_130828A				SeqNo: 2427996		Prep Date: 08/27/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.001456	0.25								J
Arsenic	U	0.25								
Barium	U	0.25								
Beryllium	U	0.10								
Cadmium	U	0.10								
Chromium	U	0.25								
Cobalt	U	0.25								
Copper	U	0.25								
Iron	2.313	4.0								J
Lead	U	0.25								
Manganese	U	0.25								
Molybdenum	U	0.25								
Nickel	U	0.25								
Selenium	U	0.25								
Silver	U	0.25								
Thallium	U	0.25								
Vanadium	U	0.25								
Zinc	0.02648	0.50								J

LCS		Sample ID: LCS-50866-50866				Units: mg/Kg		Analysis Date: 08/28/13 02:26 PM		
Client ID:		Run ID: ICPMS1_130828A				SeqNo: 2427997		Prep Date: 08/27/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	4.808	0.25	5	0	96.2	80-120	0			
Arsenic	4.636	0.25	5	0	92.7	80-120	0			
Barium	4.919	0.25	5	0	98.4	80-120	0			
Beryllium	4.954	0.10	5	0	99.1	80-120	0			
Cadmium	4.812	0.10	5	0	96.2	80-120	0			
Chromium	4.832	0.25	5	0	96.6	80-120	0			
Cobalt	4.808	0.25	5	0	96.2	80-120	0			
Copper	4.848	0.25	5	0	97	80-120	0			
Iron	496.4	4.0	500	0	99.3	80-120	0			
Lead	5.04	0.25	5	0	101	80-120	0			
Manganese	4.954	0.25	5	0	99.1	80-120	0			
Molybdenum	4.866	0.25	5	0	97.3	80-120	0			
Nickel	4.8	0.25	5	0	96	80-120	0			
Selenium	4.331	0.25	5	0	86.6	80-120	0			
Silver	4.937	0.25	5	0	98.7	80-120	0			
Thallium	4.81	0.25	5	0	96.2	80-120	0			
Vanadium	4.95	0.25	5	0	99	80-120	0			
Zinc	4.523	0.50	5	0	90.5	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50866** Instrument ID **ICPMS1** Method: **SW6020A**

MS				Sample ID: 1308936-40BMS		Units: mg/Kg		Analysis Date: 08/28/13 03:03 PM		
Client ID: SO-17360-082013-MR-106			Run ID: ICPMS1_130828A		SeqNo: 2428003		Prep Date: 08/27/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	6.749	0.35	6.925	0.6895	87.5	75-125	0			
Arsenic	7.888	0.35	6.925	1.872	86.9	75-125	0			
Barium	36.08	0.35	6.925	33.47	37.7	75-125	0			SO
Beryllium	4.94	0.14	6.925	0.09133	70	75-125	0			S
Cadmium	6.639	0.14	6.925	0.2191	92.7	75-125	0			
Chromium	24.26	0.35	6.925	13.12	161	75-125	0			S
Cobalt	8.179	0.35	6.925	2.082	88	75-125	0			
Copper	16.9	0.35	6.925	11.24	81.7	75-125	0			
Iron	5742	5.5	692.5	4978	110	75-125	0			O
Lead	46.86	0.35	6.925	42.61	61.3	75-125	0			SO
Molybdenum	10.24	0.35	6.925	3.074	104	75-125	0			
Nickel	17.53	0.35	6.925	11.32	89.7	75-125	0			
Selenium	5.947	0.35	6.925	0.2192	82.7	75-125	0			
Silver	6.2	0.35	6.925	0.1089	88	75-125	0			
Thallium	6.65	0.35	6.925	0.006036	95.9	75-125	0			
Vanadium	14.17	0.35	6.925	7.434	97.3	75-125	0			
Zinc	31.74	0.69	6.925	55.46	-343	75-125	0			SO

MS					Sample ID: 1308936-40BMS			Units:mg/Kg		Analysis Date: 08/29/13 09:23 AM		
Client ID: SO-17360-082013-MR-106				Run ID: ICPMS1_130828A			SeqNo: 2428837		Prep Date: 08/27/13		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Manganese	157.9	3.5	6.925	147.1	156	75-125	0			SO		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50866** Instrument ID **ICPMS1** Method: **SW6020A**

MSD				Sample ID: 1308936-40BMSD			Units: mg/Kg		Analysis Date: 08/28/13 03:09 PM	
Client ID: SO-17360-082013-MR-106				Run ID: ICPMS1_130828A			SeqNo: 2428004		Prep Date: 08/27/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	6.737	0.35	6.974	0.6895	86.7	75-125	6.749	0.171	25	
Arsenic	7.943	0.35	6.974	1.872	87.1	75-125	7.888	0.695	25	
Barium	41.56	0.35	6.974	33.47	116	75-125	36.08	14.1	25	O
Beryllium	4.916	0.14	6.974	0.09133	69.2	75-125	4.94	0.475	25	S
Cadmium	6.578	0.14	6.974	0.2191	91.2	75-125	6.639	0.914	25	
Chromium	18.73	0.35	6.974	13.12	80.5	75-125	24.26	25.7	25	R
Cobalt	8.054	0.35	6.974	2.082	85.6	75-125	8.179	1.53	25	
Copper	16.26	0.35	6.974	11.24	72	75-125	16.9	3.87	25	S
Iron	5785	5.6	697.4	4978	116	75-125	5742	0.731	25	O
Lead	46.43	0.35	6.974	42.61	54.8	75-125	46.86	0.914	25	SO
Molybdenum	8.626	0.35	6.974	3.074	79.6	75-125	10.24	17.1	25	
Nickel	15.43	0.35	6.974	11.32	58.9	75-125	17.53	12.8	25	S
Selenium	5.78	0.35	6.974	0.2192	79.7	75-125	5.947	2.84	25	
Silver	6.092	0.35	6.974	0.1089	85.8	75-125	6.2	1.76	25	
Thallium	6.673	0.35	6.974	0.006036	95.6	75-125	6.65	0.351	25	
Vanadium	14.34	0.35	6.974	7.434	99	75-125	14.17	1.18	25	
Zinc	30.58	0.70	6.974	55.46	-357	75-125	31.74	3.72	25	SO

MSD				Sample ID: 1308936-40BMSD			Units: mg/Kg		Analysis Date: 08/29/13 09:29 AM	
Client ID: SO-17360-082013-MR-106				Run ID: ICPMS1_130828A			SeqNo: 2428838		Prep Date: 08/27/13	
									DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese	162.6	3.5	6.974	147.1	222	75-125	157.9	2.91	25	SO

The following samples were analyzed in this batch:

1308936-31B	1308936-32B	1308936-33B
1308936-34B	1308936-35B	1308936-36B
1308936-37B	1308936-38B	1308936-39B
1308936-40B	1308936-41B	1308936-42B
1308936-43B	1308936-44B	1308936-45B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50815** Instrument ID **SVMS6** Method: **SW8270**

MBLK		Sample ID: SBLKS1-50815-50815				Units: µg/Kg		Analysis Date: 08/27/13 12:01 PM		
Client ID:		Run ID: SVMS6_130827A				SeqNo: 2426779		Prep Date: 08/26/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	U	80								
Acenaphthene	U	30								
Acenaphthylene	U	30								
Anthracene	U	30								
Benzo(a)anthracene	U	30								
Benzo(a)pyrene	U	30								
Benzo(b)fluoranthene	U	30								
Benzo(g,h,i)perylene	U	30								
Benzo(k)fluoranthene	U	30								
Chrysene	U	30								
Dibenzo(a,h)anthracene	U	30								
Fluoranthene	U	30								
Fluorene	U	30								
Indeno(1,2,3-cd)pyrene	U	30								
Naphthalene	U	30								
Phenanthrene	U	30								
Pyrene	U	30								
<i>Surr: 2-Fluorobiphenyl</i>	<i>1390</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>83.4</i>	<i>12-100</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>1802</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>108</i>	<i>25-137</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>1342</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>80.5</i>	<i>37-107</i>	<i>0</i>			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50815** Instrument ID **SVMS6** Method: **SW8270**

LCS		Sample ID: SLCSS1-50815-50815				Units: µg/Kg		Analysis Date: 08/27/13 12:20 PM		
Client ID:		Run ID: SVMS6_130827A				SeqNo: 2426780		Prep Date: 08/26/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	516.3	80	666.7	0	77.4	45-105	0			
Acenaphthene	498	30	666.7	0	74.7	45-110	0			
Acenaphthylene	478.7	30	666.7	0	71.8	45-105	0			
Anthracene	526.7	30	666.7	0	79	55-105	0			
Benzo(a)anthracene	600.3	30	666.7	0	90	50-110	0			
Benzo(a)pyrene	576.7	30	666.7	0	86.5	50-110	0			
Benzo(b)fluoranthene	592.3	30	666.7	0	88.8	45-115	0			
Benzo(g,h,i)perylene	543.3	30	666.7	0	81.5	40-125	0			
Benzo(k)fluoranthene	569	30	666.7	0	85.3	45-115	0			
Chrysene	568	30	666.7	0	85.2	55-110	0			
Dibenzo(a,h)anthracene	564	30	666.7	0	84.6	40-125	0			
Fluoranthene	569.7	30	666.7	0	85.4	55-115	0			
Fluorene	542.7	30	666.7	0	81.4	50-110	0			
Indeno(1,2,3-cd)pyrene	643.3	30	666.7	0	96.5	40-120	0			
Naphthalene	478.3	30	666.7	0	71.7	40-105	0			
Phenanthrene	533.7	30	666.7	0	80	50-110	0			
Pyrene	555.7	30	666.7	0	83.3	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	<i>1251</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>75.1</i>	<i>12-100</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>1661</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>99.7</i>	<i>25-137</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>1267</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>76</i>	<i>37-107</i>	<i>0</i>			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50815** Instrument ID **SVMS6** Method: **SW8270**

MS				Sample ID: 1308854-01A MS			Units: µg/Kg		Analysis Date: 08/27/13 02:46 PM	
Client ID:				Run ID: SVMS6_130827A			SeqNo: 2426783		Prep Date: 08/26/13	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	1517	230	1933	0	78.5	45-105	0			
Acenaphthene	1601	87	1933	0	82.8	45-110	0			
Acenaphthylene	1625	87	1933	132	77.2	45-105	0			
Anthracene	1741	87	1933	153.2	82.1	55-105	0			
Benzo(a)anthracene	2483	87	1933	451	105	50-110	0			
Benzo(a)pyrene	2352	87	1933	592.7	91	50-110	0			
Benzo(b)fluoranthene	2401	87	1933	699.6	88	45-115	0			
Benzo(g,h,i)perylene	2326	87	1933	477	95.7	40-125	0			
Benzo(k)fluoranthene	1936	87	1933	274.6	85.9	45-115	0			
Chrysene	2248	87	1933	471.2	91.9	55-110	0			
Dibenzo(a,h)anthracene	1920	87	1933	235.1	87.2	40-125	0			
Fluoranthene	2293	87	1933	746.8	80	55-115	0			
Fluorene	1688	87	1933	0	87.3	50-110	0			
Indeno(1,2,3-cd)pyrene	2646	87	1933	534.8	109	40-120	0			
Naphthalene	1385	87	1933	0	71.6	40-105	0			
Phenanthrene	1987	87	1933	277.5	88.4	50-110	0			
Pyrene	2775	87	1933	715	107	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	3830	0	4832	0	79.3	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	5133	0	4832	0	106	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	3526	0	4832	0	73	37-107	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50815** Instrument ID **SVMS6** Method: **SW8270**

MSD				Sample ID: 1308854-01A MSD			Units: µg/Kg		Analysis Date: 08/27/13 03:05 PM	
Client ID:		Run ID: SVMS6_130827A			SeqNo: 2426785		Prep Date: 08/26/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	1467	240	1970	0	74.4	45-105	1517	3.39	30	
Acenaphthene	1546	89	1970	0	78.4	45-110	1601	3.55	30	
Acenaphthylene	1550	89	1970	132	72	45-105	1625	4.67	30	
Anthracene	1715	89	1970	153.2	79.3	55-105	1741	1.49	30	
Benzo(a)anthracene	2383	89	1970	451	98.1	50-110	2483	4.11	30	
Benzo(a)pyrene	2270	89	1970	592.7	85.2	50-110	2352	3.54	30	
Benzo(b)fluoranthene	2354	89	1970	699.6	84	45-115	2401	1.96	30	
Benzo(g,h,i)perylene	2297	89	1970	477	92.4	40-125	2326	1.26	30	
Benzo(k)fluoranthene	1876	89	1970	274.6	81.3	45-115	1936	3.11	30	
Chrysene	2189	89	1970	471.2	87.2	55-110	2248	2.67	30	
Dibenzo(a,h)anthracene	1878	89	1970	235.1	83.4	40-125	1920	2.21	30	
Fluoranthene	2079	89	1970	746.8	67.6	55-115	2293	9.79	30	
Fluorene	1652	89	1970	0	83.8	50-110	1688	2.19	30	
Indeno(1,2,3-cd)pyrene	2589	89	1970	534.8	104	40-120	2646	2.2	30	
Naphthalene	1313	89	1970	0	66.6	40-105	1385	5.33	30	
Phenanthrene	1907	89	1970	277.5	82.7	50-110	1987	4.11	30	
Pyrene	2762	89	1970	715	104	45-125	2775	0.459	30	
<i>Surr: 2-Fluorobiphenyl</i>	3586	0	4925	0	72.8	12-100	3830	6.57	40	
<i>Surr: 4-Terphenyl-d14</i>	5377	0	4925	0	109	25-137	5133	4.65	40	
<i>Surr: Nitrobenzene-d5</i>	3303	0	4925	0	67.1	37-107	3526	6.53	40	

The following samples were analyzed in this batch:

1308936-01B	1308936-02B	1308936-03B
1308936-04B	1308936-05B	1308936-06B
1308936-07B	1308936-08B	1308936-09B
1308936-10B	1308936-11B	1308936-12B
1308936-13B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50822** Instrument ID **SVMS6** Method: **SW8270**

MBLK		Sample ID: SBLKS1-50822-50822				Units: µg/Kg		Analysis Date: 08/27/13 12:40 PM		
Client ID:		Run ID: SVMS6_130827A				SeqNo: 2427658		Prep Date: 08/26/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	U	80								
Acenaphthene	U	30								
Acenaphthylene	U	30								
Anthracene	U	30								
Benzo(a)anthracene	U	30								
Benzo(a)pyrene	U	30								
Benzo(b)fluoranthene	U	30								
Benzo(g,h,i)perylene	U	30								
Benzo(k)fluoranthene	U	30								
Chrysene	U	30								
Dibenzo(a,h)anthracene	U	30								
Fluoranthene	U	30								
Fluorene	U	30								
Indeno(1,2,3-cd)pyrene	U	30								
Naphthalene	U	30								
Phenanthrene	U	30								
Pyrene	U	30								
<i>Surr: 2-Fluorobiphenyl</i>	<i>1323</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>79.4</i>	<i>12-100</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>1849</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>111</i>	<i>25-137</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>1286</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>77.2</i>	<i>37-107</i>	<i>0</i>			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50822** Instrument ID **SVMS6** Method: **SW8270**

LCS		Sample ID: SLCSS1-50822-50822				Units: µg/Kg		Analysis Date: 08/27/13 12:59 PM		
Client ID:		Run ID: SVMS6_130827A				SeqNo: 2427659		Prep Date: 08/26/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	574.7	80	666.7	0	86.2	45-105	0			
Acenaphthene	563.3	30	666.7	0	84.5	45-110	0			
Acenaphthylene	537.7	30	666.7	0	80.6	45-105	0			
Anthracene	579.3	30	666.7	0	86.9	55-105	0			
Benzo(a)anthracene	670.7	30	666.7	0	101	50-110	0			
Benzo(a)pyrene	627.3	30	666.7	0	94.1	50-110	0			
Benzo(b)fluoranthene	653	30	666.7	0	97.9	45-115	0			
Benzo(g,h,i)perylene	547.7	30	666.7	0	82.1	40-125	0			
Benzo(k)fluoranthene	640.3	30	666.7	0	96	45-115	0			
Chrysene	626.7	30	666.7	0	94	55-110	0			
Dibenzo(a,h)anthracene	549.3	30	666.7	0	82.4	40-125	0			
Fluoranthene	588.7	30	666.7	0	88.3	55-115	0			
Fluorene	592	30	666.7	0	88.8	50-110	0			
Indeno(1,2,3-cd)pyrene	638.7	30	666.7	0	95.8	40-120	0			
Naphthalene	535.3	30	666.7	0	80.3	40-105	0			
Phenanthrene	584.3	30	666.7	0	87.6	50-110	0			
Pyrene	673.3	30	666.7	0	101	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	<i>1336</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>80.2</i>	<i>12-100</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>1900</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>114</i>	<i>25-137</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>1310</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>78.6</i>	<i>37-107</i>	<i>0</i>			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50822** Instrument ID **SVMS6** Method: **SW8270**

MS				Sample ID: 1308936-16B MS			Units: µg/Kg		Analysis Date: 08/27/13 01:47 PM	
Client ID: SO-17360-082013-MR-082				Run ID: SVMS6_130827A			SeqNo: 2427660		Prep Date: 08/26/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	1122	150	1267	0	88.5	45-105	0			
Acenaphthene	1061	57	1267	0	83.7	45-110	0			
Acenaphthylene	1028	57	1267	0	81.1	45-105	0			
Anthracene	1096	57	1267	44.69	82.9	55-105	0			
Benzo(a)anthracene	1300	57	1267	84.75	95.9	50-110	0			
Benzo(a)pyrene	1209	57	1267	110.2	86.7	50-110	0			
Benzo(b)fluoranthene	1253	57	1267	123.8	89.1	45-115	0			
Benzo(g,h,i)perylene	1050	57	1267	76.15	76.8	40-125	0			
Benzo(k)fluoranthene	1214	57	1267	57.28	91.3	45-115	0			
Chrysene	1203	57	1267	80.12	88.6	55-110	0			
Dibenzo(a,h)anthracene	1073	57	1267	64.23	79.6	40-125	0			
Fluoranthene	1241	57	1267	163.9	85	55-115	0			
Fluorene	1139	57	1267	0	89.9	50-110	0			
Indeno(1,2,3-cd)pyrene	1253	57	1267	62.24	94	40-120	0			
Naphthalene	1042	57	1267	0	82.2	40-105	0			
Phenanthrene	1152	57	1267	100.6	83	50-110	0			
Pyrene	1234	57	1267	132.1	87	45-125	0			
Surr: 2-Fluorobiphenyl	2558	0	3168	0	80.7	12-100	0			
Surr: 4-Terphenyl-d14	3330	0	3168	0	105	25-137	0			
Surr: Nitrobenzene-d5	2567	0	3168	0	81	37-107	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50822** Instrument ID **SVMS6** Method: **SW8270**

MSD				Sample ID: 1308936-16B MSD			Units: µg/Kg		Analysis Date: 08/27/13 02:07 PM	
Client ID: SO-17360-082013-MR-082				Run ID: SVMS6_130827A			SeqNo: 2427661		Prep Date: 08/26/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	1049	150	1257	0	83.4	45-105	1122	6.78	30	
Acenaphthene	1055	57	1257	0	83.9	45-110	1061	0.55	30	
Acenaphthylene	1015	57	1257	0	80.7	45-105	1028	1.22	30	
Anthracene	1116	57	1257	44.69	85.2	55-105	1096	1.84	30	
Benzo(a)anthracene	1392	57	1257	84.75	104	50-110	1300	6.85	30	
Benzo(a)pyrene	1281	57	1257	110.2	93.1	50-110	1209	5.75	30	
Benzo(b)fluoranthene	1347	57	1257	123.8	97.3	45-115	1253	7.22	30	
Benzo(g,h,i)perylene	1133	57	1257	76.15	84.1	40-125	1050	7.65	30	
Benzo(k)fluoranthene	1232	57	1257	57.28	93.4	45-115	1214	1.43	30	
Chrysene	1301	57	1257	80.12	97.1	55-110	1203	7.83	30	
Dibenzo(a,h)anthracene	1077	57	1257	64.23	80.5	40-125	1073	0.326	30	
Fluoranthene	1230	57	1257	163.9	84.8	55-115	1241	0.891	30	
Fluorene	1096	57	1257	0	87.2	50-110	1139	3.84	30	
Indeno(1,2,3-cd)pyrene	1335	57	1257	62.24	101	40-120	1253	6.28	30	
Naphthalene	991.4	57	1257	0	78.8	40-105	1042	5.01	30	
Phenanthrene	1213	57	1257	100.6	88.5	50-110	1152	5.19	30	
Pyrene	1445	57	1257	132.1	104	45-125	1234	15.7	30	
Surr: 2-Fluorobiphenyl	2576	0	3143	0	81.9	12-100	2558	0.686	40	
Surr: 4-Terphenyl-d14	3624	0	3143	0	115	25-137	3330	8.45	40	
Surr: Nitrobenzene-d5	2461	0	3143	0	78.3	37-107	2567	4.25	40	

The following samples were analyzed in this batch:

1308936-14B	1308936-15B	1308936-16B
1308936-17B	1308936-18B	1308936-19B
1308936-20B	1308936-21B	1308936-22B
1308936-23B	1308936-24B	1308936-25B
1308936-26B	1308936-27B	1308936-28B
1308936-29B	1308936-30B	1308936-31B
1308936-32B	1308936-33B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50831** Instrument ID **SVMS4** Method: **SW8270**

MBLK		Sample ID: SBLKS1-50831-50831				Units: µg/Kg		Analysis Date: 08/27/13 03:20 PM		
Client ID:		Run ID: SVMS4_130827A				SeqNo: 2427393		Prep Date: 08/27/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	U	80								
Acenaphthene	U	30								
Acenaphthylene	U	30								
Anthracene	U	30								
Benzo(a)anthracene	U	30								
Benzo(a)pyrene	U	30								
Benzo(b)fluoranthene	U	30								
Benzo(g,h,i)perylene	U	30								
Benzo(k)fluoranthene	U	30								
Chrysene	U	30								
Dibenzo(a,h)anthracene	U	30								
Fluoranthene	U	30								
Fluorene	U	30								
Indeno(1,2,3-cd)pyrene	U	30								
Naphthalene	U	30								
Phenanthrene	U	30								
Pyrene	U	30								
<i>Surr: 2-Fluorobiphenyl</i>	<i>1307</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>78.4</i>	<i>12-100</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>1849</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>111</i>	<i>25-137</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>1344</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>80.7</i>	<i>37-107</i>	<i>0</i>			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50831** Instrument ID **SVMS4** Method: **SW8270**

LCS		Sample ID: SLCSS1-50831-50831				Units: µg/Kg		Analysis Date: 08/27/13 02:48 PM		
Client ID:		Run ID: SVMS4_130827A				SeqNo: 2427392		Prep Date: 08/27/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	636.3	80	666.7	0	95.4	45-105	0			
Acenaphthene	645.7	30	666.7	0	96.8	45-110	0			
Acenaphthylene	646.3	30	666.7	0	96.9	45-105	0			
Anthracene	636.3	30	666.7	0	95.4	55-105	0			
Benzo(a)anthracene	694.7	30	666.7	0	104	50-110	0			
Benzo(a)pyrene	689	30	666.7	0	103	50-110	0			
Benzo(b)fluoranthene	608	30	666.7	0	91.2	45-115	0			
Benzo(g,h,i)perylene	795.3	30	666.7	0	119	40-125	0			
Benzo(k)fluoranthene	618	30	666.7	0	92.7	45-115	0			
Chrysene	656	30	666.7	0	98.4	55-110	0			
Dibenzo(a,h)anthracene	780.7	30	666.7	0	117	40-125	0			
Fluoranthene	732	30	666.7	0	110	55-115	0			
Fluorene	674.3	30	666.7	0	101	50-110	0			
Indeno(1,2,3-cd)pyrene	802.3	30	666.7	0	120	40-120	0			S
Naphthalene	624	30	666.7	0	93.6	40-105	0			
Phenanthrene	681.3	30	666.7	0	102	50-110	0			
Pyrene	745.7	30	666.7	0	112	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	<i>1479</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>88.7</i>	<i>12-100</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>2036</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>122</i>	<i>25-137</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>1557</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>93.4</i>	<i>37-107</i>	<i>0</i>			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50831** Instrument ID **SVMS4** Method: **SW8270**

MS				Sample ID: 1308936-40B MS			Units: µg/Kg		Analysis Date: 08/27/13 05:41 PM	
Client ID: SO-17360-082013-MR-106				Run ID: SVMS4_130827A			SeqNo: 2427394		Prep Date: 08/27/13	
							DF: 5			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	1135	750	1251	0	90.7	45-105	0			
Acenaphthene	1182	280	1251	0	94.5	45-110	0			
Acenaphthylene	1145	280	1251	0	91.5	45-105	0			
Anthracene	1498	280	1251	214.1	103	55-105	0			
Benzo(a)anthracene	2080	280	1251	724.5	108	50-110	0			
Benzo(a)pyrene	1942	280	1251	615.8	106	50-110	0			
Benzo(b)fluoranthene	1970	280	1251	1021	75.9	45-115	0			
Benzo(g,h,i)perylene	2108	280	1251	596.1	121	40-125	0			
Benzo(k)fluoranthene	1911	280	1251	424.8	119	45-115	0			S
Chrysene	2117	280	1251	803.6	105	55-110	0			
Dibenzo(a,h)anthracene	1435	280	1251	0	115	40-125	0			
Fluoranthene	3327	280	1251	1686	131	55-115	0			S
Fluorene	1210	280	1251	0	96.7	50-110	0			
Indeno(1,2,3-cd)pyrene	1829	280	1251	457.8	110	40-120	0			
Naphthalene	1041	280	1251	0	83.2	40-105	0			
Phenanthrene	2696	280	1251	1156	123	50-110	0			S
Pyrene	3043	280	1251	1462	126	45-125	0			S
<i>Surr: 2-Fluorobiphenyl</i>	<i>2602</i>	<i>0</i>	<i>3127</i>	<i>0</i>	<i>83.2</i>	<i>12-100</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>3162</i>	<i>0</i>	<i>3127</i>	<i>0</i>	<i>101</i>	<i>25-137</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>2558</i>	<i>0</i>	<i>3127</i>	<i>0</i>	<i>81.8</i>	<i>37-107</i>	<i>0</i>			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50831** Instrument ID **SVMS4** Method: **SW8270**

MSD				Sample ID: 1308936-40B MSD			Units: µg/Kg		Analysis Date: 08/27/13 06:13 PM	
Client ID: SO-17360-082013-MR-106				Run ID: SVMS4_130827A			SeqNo: 2427395		Prep Date: 08/27/13	
									DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	1218	790	1324	0	92	45-105	1135	7.02	30	
Acenaphthene	1271	300	1324	0	96	45-110	1182	7.23	30	
Acenaphthylene	1221	300	1324	0	92.2	45-105	1145	6.47	30	
Anthracene	1608	300	1324	214.1	105	55-105	1498	7.1	30	S
Benzo(a)anthracene	2158	300	1324	724.5	108	50-110	2080	3.68	30	
Benzo(a)pyrene	2009	300	1324	615.8	105	50-110	1942	3.37	30	
Benzo(b)fluoranthene	2071	300	1324	1021	79.4	45-115	1970	5.02	30	
Benzo(g,h,i)perylene	2214	300	1324	596.1	122	40-125	2108	4.91	30	
Benzo(k)fluoranthene	1995	300	1324	424.8	119	45-115	1911	4.34	30	S
Chrysene	2210	300	1324	803.6	106	55-110	2117	4.32	30	
Dibenzo(a,h)anthracene	1516	300	1324	0	114	40-125	1435	5.43	30	
Fluoranthene	3501	300	1324	1686	137	55-115	3327	5.09	30	S
Fluorene	1300	300	1324	0	98.2	50-110	1210	7.19	30	
Indeno(1,2,3-cd)pyrene	1893	300	1324	457.8	108	40-120	1829	3.41	30	
Naphthalene	1112	300	1324	0	84	40-105	1041	6.55	30	
Phenanthrene	2866	300	1324	1156	129	50-110	2696	6.12	30	S
Pyrene	3144	300	1324	1462	127	45-125	3043	3.26	30	S
<i>Surr: 2-Fluorobiphenyl</i>	2770	0	3309	0	83.7	12-100	2602	6.25	40	
<i>Surr: 4-Terphenyl-d14</i>	3250	0	3309	0	98.2	25-137	3162	2.74	40	
<i>Surr: Nitrobenzene-d5</i>	2737	0	3309	0	82.7	37-107	2558	6.75	40	

The following samples were analyzed in this batch:

1308936-34B	1308936-35B	1308936-36B
1308936-37B	1308936-38B	1308936-39B
1308936-40B	1308936-41B	1308936-42B
1308936-43B	1308936-44B	1308936-45B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50820** Instrument ID **VMS6** Method: **SW8260B**

MBLK		Sample ID: MBLK-50820-50820				Units: µg/Kg		Analysis Date: 08/26/13 01:55 PM		
Client ID:		Run ID: VMS6_130826A				SeqNo: 2425926		Prep Date: 08/26/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	90.5	100								J
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
Isopropylbenzene	U	30								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	35	30								
Styrene	U	30								
Tetrachloroethene	U	30								
Toluene	U	30								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50820		Instrument ID VMS6		Method: SW8260B				
trans-1,2-Dichloroethene	U	30						
trans-1,3-Dichloropropene	U	30						
Trichloroethene	U	30						
Trichlorofluoromethane	U	30						
Vinyl chloride	U	30						
Xylenes, Total	U	90						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1046</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>105</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>976</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97.6</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>1048</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>105</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>1014</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50820** Instrument ID **VMS6** Method: **SW8260B**

LCS Sample ID: LCS-50820-50820				Units: µg/Kg			Analysis Date: 08/26/13 12:07 PM			
Client ID:		Run ID: VMS6_130826A		SeqNo: 2425924		Prep Date: 08/26/13		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1068	30	1000	0	107	70-135	0			
1,1,2,2-Tetrachloroethane	1075	30	1000	0	108	55-130	0			
1,1,2-Trichloroethane	991	30	1000	0	99.1	60-125	0			
1,1-Dichloroethane	1001	30	1000	0	100	75-125	0			
1,1-Dichloroethene	1052	30	1000	0	105	65-135	0			
1,2,4-Trichlorobenzene	998.5	30	1000	0	99.8	65-130	0			
1,2-Dibromo-3-chloropropane	1072	30	1000	0	107	40-135	0			
1,2-Dibromoethane	1342	30	1000	0	134	70-125	0			S
1,2-Dichlorobenzene	995	30	1000	0	99.5	75-120	0			
1,2-Dichloroethane	976.5	30	1000	0	97.6	70-135	0			
1,2-Dichloropropane	943.5	30	1000	0	94.4	70-120	0			
1,3-Dichlorobenzene	918.5	30	1000	0	91.8	70-125	0			
1,4-Dichlorobenzene	924.5	30	1000	0	92.4	70-125	0			
2-Butanone	1014	200	1000	0	101	30-160	0			
2-Hexanone	1066	30	1000	0	107	45-145	0			
4-Methyl-2-pentanone	1369	30	1000	0	137	45-145	0			
Acetone	960	100	1000	0	96	20-160	0			
Benzene	1020	30	1000	0	102	75-125	0			
Bromodichloromethane	1092	30	1000	0	109	70-130	0			
Bromoform	799	30	1000	0	79.9	55-135	0			
Bromomethane	654	75	1000	0	65.4	30-160	0			
Carbon disulfide	1010	30	1000	0	101	45-160	0			
Carbon tetrachloride	937.5	30	1000	0	93.8	65-135	0			
Chlorobenzene	935	30	1000	0	93.5	75-125	0			
Chloroethane	936	100	1000	0	93.6	40-155	0			
Chloroform	1013	30	1000	0	101	70-125	0			
Chloromethane	792	100	1000	0	79.2	50-130	0			
cis-1,2-Dichloroethene	1004	30	1000	0	100	65-125	0			
cis-1,3-Dichloropropene	1061	30	1000	0	106	70-125	0			
Dibromochloromethane	787.5	30	1000	0	78.8	65-135	0			
Dichlorodifluoromethane	787	30	1000	0	78.7	35-135	0			
Ethylbenzene	947.5	30	1000	0	94.8	75-125	0			
Isopropylbenzene	886.5	30	1000	0	88.6	75-130	0			
Methyl tert-butyl ether	1065	30	1000	0	106	75-125	0			
Methylene chloride	957	30	1000	0	95.7	55-145	0			B
Styrene	963.5	30	1000	0	96.4	75-125	0			
Tetrachloroethene	959	30	1000	0	95.9	64-140	0			
Toluene	939.5	30	1000	0	94	70-125	0			
trans-1,2-Dichloroethene	1048	30	1000	0	105	65-135	0			
trans-1,3-Dichloropropene	1068	30	1000	0	107	65-125	0			
Trichloroethene	994.5	30	1000	0	99.4	75-125	0			
Trichlorofluoromethane	938.5	30	1000	0	93.8	25-185	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50820	Instrument ID VMS6	Method: SW8260B					
Vinyl chloride	849.5	30	1000	0	85	60-125	0
Xylenes, Total	2797	90	3000	0	93.2	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1028</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>103</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>992</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.2</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>1068</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>107</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>1008</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50820** Instrument ID **VMS6** Method: **SW8260B**

MS				Sample ID: 1308936-16A MS			Units: µg/Kg		Analysis Date: 08/27/13 10:03 PM	
Client ID: SO-17360-082013-MR-082				Run ID: VMS8_130827A			SeqNo: 2427327		Prep Date: 08/26/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1093	31	1020	0	107	70-135	0			
1,1,2,2-Tetrachloroethane	960.7	31	1020	0	94.2	55-130	0			
1,1,2-Trichloroethane	962.2	31	1020	0	94.3	60-125	0			
1,1-Dichloroethane	1027	31	1020	0	101	75-125	0			
1,1-Dichloroethene	1113	31	1020	0	109	65-135	0			
1,2,4-Trichlorobenzene	858.7	31	1020	0	84.2	65-130	0			
1,2-Dibromo-3-chloropropane	850	31	1020	0	83.3	40-135	0			
1,2-Dibromoethane	1018	31	1020	0	99.8	70-125	0			
1,2-Dichlorobenzene	958.2	31	1020	0	93.9	75-120	0			
1,2-Dichloroethane	1065	31	1020	0	104	70-135	0			
1,2-Dichloropropane	1060	31	1020	0	104	70-120	0			
1,3-Dichlorobenzene	983.2	31	1020	0	96.4	70-125	0			
1,4-Dichlorobenzene	961.7	31	1020	0	94.2	70-125	0			
2-Butanone	1081	200	1020	0	106	30-160	0			
2-Hexanone	867.9	31	1020	0	85	45-145	0			
4-Methyl-2-pentanone	1170	31	1020	0	115	45-145	0			
Acetone	1167	100	1020	0	114	20-160	0			
Benzene	1045	31	1020	0	102	75-125	0			
Bromodichloromethane	1065	31	1020	0	104	70-130	0			
Bromoform	791.8	31	1020	0	77.6	55-135	0			
Bromomethane	780.6	77	1020	0	76.5	30-160	0			
Carbon disulfide	1063	31	1020	0	104	45-160	0			
Carbon tetrachloride	909.2	31	1020	0	89.1	65-135	0			
Chlorobenzene	1030	31	1020	0	101	75-125	0			
Chloroethane	435.2	100	1020	0	42.6	40-155	0			
Chloroform	1058	31	1020	0	104	70-125	0			
Chloromethane	783.7	100	1020	0	76.8	50-130	0			
cis-1,2-Dichloroethene	1013	31	1020	0	99.3	65-125	0			
cis-1,3-Dichloropropene	998	31	1020	0	97.8	70-125	0			
Dibromochloromethane	803.1	31	1020	0	78.7	65-135	0			
Dichlorodifluoromethane	643.4	31	1020	0	63	35-135	0			
Ethylbenzene	1058	31	1020	0	104	75-125	0			
Isopropylbenzene	1001	31	1020	0	98	75-130	0			
Methyl tert-butyl ether	986.2	31	1020	0	96.6	75-125	0			
Methylene chloride	1073	31	1020	0	105	55-145	0			B
Styrene	1019	31	1020	0	99.8	75-125	0			
Tetrachloroethene	1099	31	1020	0	108	64-140	0			
Toluene	1010	31	1020	0	99	70-125	0			
trans-1,2-Dichloroethene	1074	31	1020	0	105	65-135	0			
trans-1,3-Dichloropropene	916.3	31	1020	0	89.8	65-125	0			
Trichloroethene	1082	31	1020	0	106	75-125	0			
Trichlorofluoromethane	921.9	31	1020	0	90.4	25-185	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50820	Instrument ID VMS6		Method: SW8260B				
Vinyl chloride	780.1	31	1020	0	76.4	60-125	0
Xylenes, Total	2950	92	3061	0	96.4	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>999</i>	<i>0</i>	<i>1020</i>	<i>0</i>	<i>97.9</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1056</i>	<i>0</i>	<i>1020</i>	<i>0</i>	<i>103</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>1000</i>	<i>0</i>	<i>1020</i>	<i>0</i>	<i>98</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>968.4</i>	<i>0</i>	<i>1020</i>	<i>0</i>	<i>94.9</i>	<i>70-130</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50820** Instrument ID **VMS6** Method: **SW8260B**

MSD				Sample ID: 1308936-16A MSD			Units: µg/Kg		Analysis Date: 08/27/13 10:28 PM	
Client ID: SO-17360-082013-MR-082				Run ID: VMS8_130827A			SeqNo: 2427328		Prep Date: 08/26/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1070	31	1020	0	105	70-135	1093	2.08	30	
1,1,2,2-Tetrachloroethane	971.4	31	1020	0	95.2	55-130	960.7	1.11	30	
1,1,2-Trichloroethane	941.8	31	1020	0	92.3	60-125	962.2	2.14	30	
1,1-Dichloroethane	1029	31	1020	0	101	75-125	1027	0.248	30	
1,1-Dichloroethene	1117	31	1020	0	109	65-135	1113	0.32	30	
1,2,4-Trichlorobenzene	961.7	31	1020	0	94.2	65-130	858.7	11.3	30	
1,2-Dibromo-3-chloropropane	855.6	31	1020	0	83.8	40-135	850	0.658	30	
1,2-Dibromoethane	1014	31	1020	0	99.4	70-125	1018	0.351	30	
1,2-Dichlorobenzene	971.9	31	1020	0	95.2	75-120	958.2	1.43	30	
1,2-Dichloroethane	1058	31	1020	0	104	70-135	1065	0.673	30	
1,2-Dichloropropane	1046	31	1020	0	103	70-120	1060	1.31	30	
1,3-Dichlorobenzene	993.9	31	1020	0	97.4	70-125	983.2	1.08	30	
1,4-Dichlorobenzene	1002	31	1020	0	98.2	70-125	961.7	4.1	30	
2-Butanone	989.8	200	1020	0	97	30-160	1081	8.77	30	
2-Hexanone	873	31	1020	0	85.6	45-145	867.9	0.586	30	
4-Methyl-2-pentanone	1179	31	1020	0	116	45-145	1170	0.695	30	
Acetone	1086	100	1020	0	106	20-160	1167	7.25	30	
Benzene	1015	31	1020	0	99.5	75-125	1045	2.92	30	
Bromodichloromethane	1078	31	1020	0	106	70-130	1065	1.19	30	
Bromoform	785.7	31	1020	0	77	55-135	791.8	0.776	30	
Bromomethane	764.8	77	1020	0	75	30-160	780.6	2.05	30	
Carbon disulfide	1056	31	1020	0	104	45-160	1063	0.674	30	
Carbon tetrachloride	893.4	31	1020	0	87.6	65-135	909.2	1.75	30	
Chlorobenzene	1022	31	1020	0	100	75-125	1030	0.746	30	
Chloroethane	444.9	100	1020	0	43.6	40-155	435.2	2.2	30	
Chloroform	1047	31	1020	0	103	70-125	1058	1.02	30	
Chloromethane	783.7	100	1020	0	76.8	50-130	783.7	0	30	
cis-1,2-Dichloroethene	1004	31	1020	0	98.4	65-125	1013	0.961	30	
cis-1,3-Dichloropropene	983.2	31	1020	0	96.4	70-125	998	1.49	30	
Dibromochloromethane	793.4	31	1020	0	77.8	65-135	803.1	1.21	30	
Dichlorodifluoromethane	633.7	31	1020	0	62.1	35-135	643.4	1.52	30	
Ethylbenzene	1056	31	1020	0	104	75-125	1058	0.193	30	
Isopropylbenzene	1002	31	1020	0	98.2	75-130	1001	0.153	30	
Methyl tert-butyl ether	988.3	31	1020	0	96.8	75-125	986.2	0.207	30	
Methylene chloride	1071	31	1020	0	105	55-145	1073	0.143	30	B
Styrene	1031	31	1020	0	101	75-125	1019	1.19	30	
Tetrachloroethene	1091	31	1020	0	107	64-140	1099	0.792	30	
Toluene	994.9	31	1020	0	97.5	70-125	1010	1.48	30	
trans-1,2-Dichloroethene	1095	31	1020	0	107	65-135	1074	1.93	30	
trans-1,3-Dichloropropene	903.6	31	1020	0	88.6	65-125	916.3	1.4	30	
Trichloroethene	1066	31	1020	0	104	75-125	1082	1.47	30	
Trichlorofluoromethane	904.6	31	1020	0	88.6	25-185	921.9	1.9	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50820	Instrument ID VMS6	Method: SW8260B							
Vinyl chloride	765.8	31	1020	0	75	60-125	780.1	1.85	30
Xylenes, Total	2965	92	3061	0	96.8	75-125	2950	0.5	30
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1003</i>	<i>0</i>	<i>1020</i>	<i>0</i>	<i>98.3</i>	<i>70-130</i>	<i>999</i>	<i>0.408</i>	<i>30</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1079</i>	<i>0</i>	<i>1020</i>	<i>0</i>	<i>106</i>	<i>70-130</i>	<i>1056</i>	<i>2.15</i>	<i>30</i>
<i>Surr: Dibromofluoromethane</i>	<i>1004</i>	<i>0</i>	<i>1020</i>	<i>0</i>	<i>98.4</i>	<i>70-130</i>	<i>1000</i>	<i>0.407</i>	<i>30</i>
<i>Surr: Toluene-d8</i>	<i>970.4</i>	<i>0</i>	<i>1020</i>	<i>0</i>	<i>95.1</i>	<i>70-130</i>	<i>968.4</i>	<i>0.211</i>	<i>30</i>

The following samples were analyzed in this batch:

1308936-01A	1308936-02A	1308936-03A
1308936-04A	1308936-05A	1308936-06A
1308936-07A	1308936-08A	1308936-09A
1308936-10A	1308936-11A	1308936-12A
1308936-13A	1308936-14A	1308936-15A
1308936-16A	1308936-17A	1308936-18A
1308936-19A	1308936-20A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50821** Instrument ID **VMS6** Method: **SW8260B**

MBLK		Sample ID: MBLK-50821-50821				Units: µg/Kg		Analysis Date: 08/26/13 02:21 PM		
Client ID:		Run ID: VMS6_130826A				SeqNo: 2425927		Prep Date: 08/26/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
Isopropylbenzene	U	30								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	35	30								
Styrene	U	30								
Tetrachloroethene	U	30								
Toluene	U	30								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50821	Instrument ID VMS6	Method: SW8260B						
trans-1,2-Dichloroethene	U	30						
trans-1,3-Dichloropropene	U	30						
Trichloroethene	U	30						
Trichlorofluoromethane	U	30						
Vinyl chloride	U	30						
Xylenes, Total	U	90						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1066</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>107</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>952.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>95.2</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>1015</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>1016</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50821** Instrument ID **VMS6** Method: **SW8260B**

LCS Sample ID: LCS-50821-50821				Units: µg/Kg			Analysis Date: 08/26/13 12:34 PM			
Client ID:		Run ID: VMS6_130826A		SeqNo: 2425925		Prep Date: 08/26/13		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1118	30	1000	0	112	70-135	0			
1,1,2,2-Tetrachloroethane	1071	30	1000	0	107	55-130	0			
1,1,2-Trichloroethane	1004	30	1000	0	100	60-125	0			
1,1-Dichloroethane	1046	30	1000	0	105	75-125	0			
1,1-Dichloroethene	1139	30	1000	0	114	65-135	0			
1,2,4-Trichlorobenzene	988.5	30	1000	0	98.8	65-130	0			
1,2-Dibromo-3-chloropropane	998.5	30	1000	0	99.8	40-135	0			
1,2-Dibromoethane	1347	30	1000	0	135	70-125	0			S
1,2-Dichlorobenzene	989.5	30	1000	0	99	75-120	0			
1,2-Dichloroethane	988	30	1000	0	98.8	70-135	0			
1,2-Dichloropropane	962	30	1000	0	96.2	70-120	0			
1,3-Dichlorobenzene	930	30	1000	0	93	70-125	0			
1,4-Dichlorobenzene	918	30	1000	0	91.8	70-125	0			
2-Butanone	1030	200	1000	0	103	30-160	0			
2-Hexanone	995.5	30	1000	0	99.6	45-145	0			
4-Methyl-2-pentanone	1344	30	1000	0	134	45-145	0			
Acetone	1009	100	1000	0	101	20-160	0			
Benzene	1056	30	1000	0	106	75-125	0			
Bromodichloromethane	1106	30	1000	0	111	70-130	0			
Bromoform	798.5	30	1000	0	79.8	55-135	0			
Bromomethane	729	75	1000	0	72.9	30-160	0			
Carbon disulfide	1072	30	1000	0	107	45-160	0			
Carbon tetrachloride	988	30	1000	0	98.8	65-135	0			
Chlorobenzene	975	30	1000	0	97.5	75-125	0			
Chloroethane	1028	100	1000	0	103	40-155	0			
Chloroform	1064	30	1000	0	106	70-125	0			
Chloromethane	844.5	100	1000	0	84.4	50-130	0			
cis-1,2-Dichloroethene	1064	30	1000	0	106	65-125	0			
cis-1,3-Dichloropropene	1084	30	1000	0	108	70-125	0			
Dibromochloromethane	787	30	1000	0	78.7	65-135	0			
Dichlorodifluoromethane	889.5	30	1000	0	89	35-135	0			
Ethylbenzene	996	30	1000	0	99.6	75-125	0			
Isopropylbenzene	948	30	1000	0	94.8	75-130	0			
Methyl tert-butyl ether	1090	30	1000	0	109	75-125	0			
Methylene chloride	1004	30	1000	0	100	55-145	0			B
Styrene	998.5	30	1000	0	99.8	75-125	0			
Tetrachloroethene	1002	30	1000	0	100	64-140	0			
Toluene	994.5	30	1000	0	99.4	70-125	0			
trans-1,2-Dichloroethene	1124	30	1000	0	112	65-135	0			
trans-1,3-Dichloropropene	1080	30	1000	0	108	65-125	0			
Trichloroethene	1052	30	1000	0	105	75-125	0			
Trichlorofluoromethane	1026	30	1000	0	103	25-185	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50821	Instrument ID VMS6			Method: SW8260B			
Vinyl chloride	925	30	1000	0	92.5	60-125	0
Xylenes, Total	2930	90	3000	0	97.7	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1032</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>103</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1018</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>1082</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>108</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>1042</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>104</i>	<i>70-130</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50821** Instrument ID **VMS6** Method: **SW8260B**

MS				Sample ID: 1308936-40A MS			Units: µg/Kg		Analysis Date: 08/28/13 12:27 PM	
Client ID: SO-17360-082013-MR-106				Run ID: VMS6_130827A			SeqNo: 2427345		Prep Date: 08/26/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1056	32	1074	0	98.4	70-135	0			
1,1,2,2-Tetrachloroethane	957	32	1074	0	89.1	55-130	0			
1,1,2-Trichloroethane	959.7	32	1074	0	89.4	60-125	0			
1,1-Dichloroethane	1036	32	1074	0	96.4	75-125	0			
1,1-Dichloroethene	1076	32	1074	0	100	65-135	0			
1,2,4-Trichlorobenzene	1020	32	1074	0	95	65-130	0			
1,2-Dibromo-3-chloropropane	750.8	32	1074	0	69.9	40-135	0			
1,2-Dibromoethane	1300	32	1074	0	121	70-125	0			
1,2-Dichlorobenzene	1005	32	1074	0	93.6	75-120	0			
1,2-Dichloroethane	1027	32	1074	0	95.6	70-135	0			
1,2-Dichloropropane	1010	32	1074	0	94	70-120	0			
1,3-Dichlorobenzene	989.3	32	1074	0	92.1	70-125	0			
1,4-Dichlorobenzene	967.2	32	1074	0	90	70-125	0			
2-Butanone	1151	210	1074	0	107	30-160	0			
2-Hexanone	999.5	32	1074	0	93	45-145	0			
4-Methyl-2-pentanone	1208	32	1074	0	112	45-145	0			
Acetone	1250	110	1074	0	116	20-160	0			
Benzene	1113	32	1074	0	104	75-125	0			
Bromodichloromethane	984.4	32	1074	0	91.6	70-130	0			
Bromoform	614.4	32	1074	0	57.2	55-135	0			
Bromomethane	172.9	81	1074	0	16.1	30-160	0			S
Carbon disulfide	811.5	32	1074	0	75.6	45-160	0			
Carbon tetrachloride	921.1	32	1074	0	85.8	65-135	0			
Chlorobenzene	1047	32	1074	0	97.4	75-125	0			
Chloroethane	653.1	110	1074	0	60.8	40-155	0			
Chloroform	1057	32	1074	0	98.4	70-125	0			
Chloromethane	707.8	110	1074	0	65.9	50-130	0			
cis-1,2-Dichloroethene	1033	32	1074	0	96.2	65-125	0			
cis-1,3-Dichloropropene	997.9	32	1074	0	92.9	70-125	0			
Dibromochloromethane	619.2	32	1074	0	57.6	65-135	0			S
Dichlorodifluoromethane	779.3	32	1074	0	72.6	35-135	0			
Ethylbenzene	1063	32	1074	0	99	75-125	0			
Isopropylbenzene	1091	32	1074	0	102	75-130	0			
Methyl tert-butyl ether	1084	32	1074	0	101	75-125	0			
Methylene chloride	1054	54	1074	109.3	88	55-145	0			
Styrene	1078	32	1074	0	100	75-125	0			
Tetrachloroethene	1066	32	1074	0	99.2	64-140	0			
Toluene	1042	32	1074	26.62	94.6	70-125	0			
trans-1,2-Dichloroethene	1055	32	1074	0	98.2	65-135	0			
trans-1,3-Dichloropropene	909.2	32	1074	0	84.6	65-125	0			
Trichloroethene	1588	32	1074	255.7	124	75-125	0			
Trichlorofluoromethane	995.2	32	1074	0	92.6	25-185	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50821	Instrument ID VMS6		Method: SW8260B				
Vinyl chloride	718	32	1074	0	66.8	60-125	0
Xylenes, Total	3230	97	3222	0	100	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1107</i>	<i>0</i>	<i>1074</i>	<i>0</i>	<i>103</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1129</i>	<i>0</i>	<i>1074</i>	<i>0</i>	<i>105</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>1121</i>	<i>0</i>	<i>1074</i>	<i>0</i>	<i>104</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>1080</i>	<i>0</i>	<i>1074</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50821** Instrument ID **VMS6** Method: **SW8260B**

MSD				Sample ID: 1308936-40A MSD			Units: µg/Kg		Analysis Date: 08/28/13 12:53 PM	
Client ID: SO-17360-082013-MR-106				Run ID: VMS6_130827A			SeqNo: 2427346		Prep Date: 08/26/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1032	32	1074	0	96.1	70-135	1056	2.31	30	
1,1,2,2-Tetrachloroethane	969.4	32	1074	0	90.2	55-130	957	1.28	30	
1,1,2-Trichloroethane	979.6	32	1074	0	91.2	60-125	959.7	2.05	30	
1,1-Dichloroethane	998.4	32	1074	0	93	75-125	1036	3.7	30	
1,1-Dichloroethene	999.5	32	1074	0	93	65-135	1076	7.4	30	
1,2,4-Trichlorobenzene	1064	32	1074	0	99	65-130	1020	4.23	30	
1,2-Dibromo-3-chloropropane	783.6	32	1074	0	73	40-135	750.8	4.27	30	
1,2-Dibromoethane	1307	32	1074	0	122	70-125	1300	0.536	30	
1,2-Dichlorobenzene	1019	32	1074	0	94.9	75-120	1005	1.38	30	
1,2-Dichloroethane	1024	32	1074	0	95.3	70-135	1027	0.314	30	
1,2-Dichloropropane	997.3	32	1074	0	92.8	70-120	1010	1.23	30	
1,3-Dichlorobenzene	996.2	32	1074	0	92.8	70-125	989.3	0.703	30	
1,4-Dichlorobenzene	980.1	32	1074	0	91.2	70-125	967.2	1.32	30	
2-Butanone	1128	210	1074	0	105	30-160	1151	1.98	30	
2-Hexanone	927.5	32	1074	0	86.4	45-145	999.5	7.47	30	
4-Methyl-2-pentanone	1199	32	1074	0	112	45-145	1208	0.759	30	
Acetone	1218	110	1074	0	113	20-160	1250	2.66	30	
Benzene	1086	32	1074	0	101	75-125	1113	2.44	30	
Bromodichloromethane	971.5	32	1074	0	90.4	70-130	984.4	1.32	30	
Bromoform	628.4	32	1074	0	58.5	55-135	614.4	2.25	30	
Bromomethane	155.7	81	1074	0	14.5	30-160	172.9	10.5	30	S
Carbon disulfide	801.8	32	1074	0	74.6	45-160	811.5	1.2	30	
Carbon tetrachloride	909.2	32	1074	0	84.6	65-135	921.1	1.29	30	
Chlorobenzene	1022	32	1074	0	95.2	75-125	1047	2.39	30	
Chloroethane	601.5	110	1074	0	56	40-155	653.1	8.22	30	
Chloroform	1018	32	1074	0	94.8	70-125	1057	3.73	30	
Chloromethane	698.2	110	1074	0	65	50-130	707.8	1.38	30	
cis-1,2-Dichloroethene	988.2	32	1074	0	92	65-125	1033	4.41	30	
cis-1,3-Dichloropropene	1017	32	1074	0	94.7	70-125	997.9	1.92	30	
Dibromochloromethane	644.5	32	1074	0	60	65-135	619.2	3.99	30	S
Dichlorodifluoromethane	751.9	32	1074	0	70	35-135	779.3	3.58	30	
Ethylbenzene	1044	32	1074	0	97.2	75-125	1063	1.84	30	
Isopropylbenzene	1096	32	1074	0	102	75-130	1091	0.442	30	
Methyl tert-butyl ether	1077	32	1074	0	100	75-125	1084	0.596	30	
Methylene chloride	1003	54	1074	109.3	83.2	55-145	1054	4.96	30	
Styrene	1071	32	1074	0	99.7	75-125	1078	0.7	30	
Tetrachloroethene	1075	32	1074	0	100	64-140	1066	0.803	30	
Toluene	1008	32	1074	26.62	91.4	70-125	1042	3.35	30	
trans-1,2-Dichloroethene	1015	32	1074	0	94.4	65-135	1055	3.89	30	
trans-1,3-Dichloropropene	929.6	32	1074	0	86.6	65-125	909.2	2.22	30	
Trichloroethene	1560	32	1074	255.7	121	75-125	1588	1.74	30	
Trichlorofluoromethane	943.6	32	1074	0	87.8	25-185	995.2	5.32	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50821	Instrument ID VMS6	Method: SW8260B							
Vinyl chloride	681	32	1074	0	63.4	60-125	718	5.3	30
Xylenes, Total	3173	97	3222	0	98.5	75-125	3230	1.78	30
Surr: 1,2-Dichloroethane-d4	1064	0	1074	0	99	70-130	1107	4.01	30
Surr: 4-Bromofluorobenzene	1122	0	1074	0	104	70-130	1129	0.62	30
Surr: Dibromofluoromethane	1106	0	1074	0	103	70-130	1121	1.35	30
Surr: Toluene-d8	1077	0	1074	0	100	70-130	1080	0.299	30

The following samples were analyzed in this batch:	1308936-21A	1308936-22A	1308936-23A
	1308936-24A	1308936-25A	1308936-26A
	1308936-27A	1308936-28A	1308936-29A
	1308936-30A	1308936-31A	1308936-32A
	1308936-33A	1308936-34A	1308936-35A
	1308936-36A	1308936-37A	1308936-38A
	1308936-40A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50856** Instrument ID **VMS6** Method: **SW8260B**

MBLK		Sample ID: MBLK-50856-50856				Units: µg/Kg		Analysis Date: 08/27/13 04:19 PM		
Client ID:		Run ID: VMS6_130827A				SeqNo: 2427292		Prep Date: 08/27/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
Isopropylbenzene	U	30								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
Styrene	U	30								
Tetrachloroethene	U	30								
Toluene	U	30								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50856	Instrument ID VMS6	Method: SW8260B						
trans-1,2-Dichloroethene	U	30						
trans-1,3-Dichloropropene	U	30						
Trichloroethene	U	30						
Trichlorofluoromethane	U	30						
Vinyl chloride	U	30						
Xylenes, Total	U	90						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1069</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>107</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>1021</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>998</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.8</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>1042</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>104</i>	<i>70-130</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50856** Instrument ID **VMS6** Method: **SW8260B**

LCS Sample ID: LCS-50856-50856				Units: µg/Kg			Analysis Date: 08/27/13 02:29 PM			
Client ID:		Run ID: VMS6_130827A		SeqNo: 2427290		Prep Date: 08/27/13		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1026	30	1000	0	103	70-135	0			
1,1,2,2-Tetrachloroethane	1005	30	1000	0	100	55-130	0			
1,1,2-Trichloroethane	941	30	1000	0	94.1	60-125	0			
1,1-Dichloroethane	975.5	30	1000	0	97.6	75-125	0			
1,1-Dichloroethene	1034	30	1000	0	103	65-135	0			
1,2,4-Trichlorobenzene	937	30	1000	0	93.7	65-130	0			
1,2-Dibromo-3-chloropropane	927.5	30	1000	0	92.8	40-135	0			
1,2-Dibromoethane	1286	30	1000	0	129	70-125	0			S
1,2-Dichlorobenzene	937	30	1000	0	93.7	75-120	0			
1,2-Dichloroethane	974.5	30	1000	0	97.4	70-135	0			
1,2-Dichloropropane	980.5	30	1000	0	98	70-120	0			
1,3-Dichlorobenzene	948.5	30	1000	0	94.8	70-125	0			
1,4-Dichlorobenzene	919	30	1000	0	91.9	70-125	0			
2-Butanone	1048	200	1000	0	105	30-160	0			
2-Hexanone	1028	30	1000	0	103	45-145	0			
4-Methyl-2-pentanone	1320	30	1000	0	132	45-145	0			
Acetone	1061	100	1000	0	106	20-160	0			
Benzene	1024	30	1000	0	102	75-125	0			
Bromodichloromethane	1064	30	1000	0	106	70-130	0			
Bromoform	740	30	1000	0	74	55-135	0			
Bromomethane	289.5	75	1000	0	29	30-160	0			S
Carbon disulfide	958	30	1000	0	95.8	45-160	0			
Carbon tetrachloride	860	30	1000	0	86	65-135	0			
Chlorobenzene	981.5	30	1000	0	98.2	75-125	0			
Chloroethane	853.5	100	1000	0	85.4	40-155	0			
Chloroform	1002	30	1000	0	100	70-125	0			
Chloromethane	606	100	1000	0	60.6	50-130	0			
cis-1,2-Dichloroethene	990	30	1000	0	99	65-125	0			
cis-1,3-Dichloropropene	1048	30	1000	0	105	70-125	0			
Dibromochloromethane	730	30	1000	0	73	65-135	0			
Dichlorodifluoromethane	683.5	30	1000	0	68.4	35-135	0			
Ethylbenzene	998.5	30	1000	0	99.8	75-125	0			
Isopropylbenzene	1018	30	1000	0	102	75-130	0			
Methyl tert-butyl ether	1042	30	1000	0	104	75-125	0			
Methylene chloride	909.5	30	1000	0	91	55-145	0			
Styrene	1018	30	1000	0	102	75-125	0			
Tetrachloroethene	1004	30	1000	0	100	64-140	0			
Toluene	941	30	1000	0	94.1	70-125	0			
trans-1,2-Dichloroethene	1019	30	1000	0	102	65-135	0			
trans-1,3-Dichloropropene	992.5	30	1000	0	99.2	65-125	0			
Trichloroethene	1030	30	1000	0	103	75-125	0			
Trichlorofluoromethane	934	30	1000	0	93.4	25-185	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50856	Instrument ID VMS6	Method: SW8260B					
Vinyl chloride	707.5	30	1000	0	70.8	60-125	0
Xylenes, Total	2996	90	3000	0	99.8	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1018</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1052</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>105</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>1048</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>105</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>1012</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50856** Instrument ID **VMS6** Method: **SW8260B**

MS				Sample ID: 1308937-68B MS			Units: µg/Kg		Analysis Date: 08/28/13 12:33 PM	
Client ID:				Run ID: VMS6_130827B			SeqNo: 2427725		Prep Date: 08/27/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	988.9	32	1053	0	94	70-135	0			
1,1,2,2-Tetrachloroethane	959.5	32	1053	0	91.2	55-130	0			
1,1,2-Trichloroethane	971.1	32	1053	0	92.2	60-125	0			
1,1-Dichloroethane	982.6	32	1053	0	93.4	75-125	0			
1,1-Dichloroethene	968.4	32	1053	0	92	65-135	0			
1,2,4-Trichlorobenzene	944.2	32	1053	0	89.7	65-130	0			
1,2-Dibromo-3-chloropropane	741.1	32	1053	0	70.4	40-135	0			
1,2-Dibromoethane	1301	32	1053	0	124	70-125	0			
1,2-Dichlorobenzene	995.3	32	1053	0	94.6	75-120	0			
1,2-Dichloroethane	1018	32	1053	0	96.7	70-135	0			
1,2-Dichloropropane	997.9	32	1053	0	94.8	70-120	0			
1,3-Dichlorobenzene	963.2	32	1053	0	91.5	70-125	0			
1,4-Dichlorobenzene	958.9	32	1053	0	91.1	70-125	0			
2-Butanone	1072	210	1053	0	102	30-160	0			
2-Hexanone	913.2	32	1053	0	86.8	45-145	0			
4-Methyl-2-pentanone	1202	32	1053	0	114	45-145	0			
Acetone	1239	110	1053	0	118	20-160	0			
Benzene	1074	32	1053	0	102	75-125	0			
Bromodichloromethane	976.3	32	1053	0	92.8	70-130	0			
Bromoform	628.9	32	1053	0	59.8	55-135	0			
Bromomethane	185.8	79	1053	0	17.6	30-160	0			S
Carbon disulfide	781.1	32	1053	0	74.2	45-160	0			
Carbon tetrachloride	879.5	32	1053	0	83.6	65-135	0			
Chlorobenzene	1035	32	1053	0	98.3	75-125	0			
Chloroethane	871.1	110	1053	0	82.8	40-155	0			
Chloroform	1018	32	1053	0	96.8	70-125	0			
Chloromethane	691.6	110	1053	0	65.7	50-130	0			
cis-1,2-Dichloroethene	970	32	1053	0	92.2	65-125	0			
cis-1,3-Dichloropropene	984.7	32	1053	0	93.6	70-125	0			
Dibromochloromethane	635.3	32	1053	0	60.4	65-135	0			S
Dichlorodifluoromethane	598.9	32	1053	0	56.9	35-135	0			
Ethylbenzene	1029	32	1053	0	97.8	75-125	0			
Isopropylbenzene	1046	32	1053	0	99.4	75-130	0			
Methyl tert-butyl ether	1059	32	1053	0	101	75-125	0			
Methylene chloride	973.2	32	1053	0	92.4	55-145	0			
Styrene	1078	32	1053	0	102	75-125	0			
Tetrachloroethene	1022	32	1053	0	97.1	64-140	0			
Toluene	975.8	32	1053	0	92.7	70-125	0			
trans-1,2-Dichloroethene	1024	32	1053	0	97.3	65-135	0			
trans-1,3-Dichloropropene	890	32	1053	0	84.6	65-125	0			
Trichloroethene	1058	32	1053	0	101	75-125	0			
Trichlorofluoromethane	855.3	32	1053	0	81.2	25-185	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50856	Instrument ID VMS6	Method: SW8260B					
Vinyl chloride	686.8	32	1053	0	65.2	60-125	0
Xylenes, Total	3112	95	3158	0	98.5	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1048</i>	<i>0</i>	<i>1053</i>	<i>0</i>	<i>99.6</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1102</i>	<i>0</i>	<i>1053</i>	<i>0</i>	<i>105</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>1083</i>	<i>0</i>	<i>1053</i>	<i>0</i>	<i>103</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>1052</i>	<i>0</i>	<i>1053</i>	<i>0</i>	<i>99.9</i>	<i>70-130</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50856** Instrument ID **VMS6** Method: **SW8260B**

MSD				Sample ID: 1308937-68B MSD			Units: µg/Kg		Analysis Date: 08/28/13 01:00 PM		
Client ID:		Run ID: VMS6_130827B			SeqNo:2427726		Prep Date: 08/27/13		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	985.8	32	1053	0	93.6	70-135	988.9	0.32	30		
1,1,2,2-Tetrachloroethane	945.3	32	1053	0	89.8	55-130	959.5	1.49	30		
1,1,2-Trichloroethane	981.1	32	1053	0	93.2	60-125	971.1	1.02	30		
1,1-Dichloroethane	968.4	32	1053	0	92	75-125	982.6	1.46	30		
1,1-Dichloroethene	920.5	32	1053	0	87.4	65-135	968.4	5.07	30		
1,2,4-Trichlorobenzene	1009	32	1053	0	95.8	65-130	944.2	6.63	30		
1,2-Dibromo-3-chloropropane	781.1	32	1053	0	74.2	40-135	741.1	5.26	30		
1,2-Dibromoethane	1312	32	1053	0	125	70-125	1301	0.806	30		
1,2-Dichlorobenzene	1014	32	1053	0	96.3	75-120	995.3	1.83	30		
1,2-Dichloroethane	987.9	32	1053	0	93.8	70-135	1018	2.99	30		
1,2-Dichloropropane	974.7	32	1053	0	92.6	70-120	997.9	2.35	30		
1,3-Dichlorobenzene	979.5	32	1053	0	93	70-125	963.2	1.68	30		
1,4-Dichlorobenzene	968.4	32	1053	0	92	70-125	958.9	0.983	30		
2-Butanone	1035	210	1053	0	98.4	30-160	1072	3.45	30		
2-Hexanone	914.2	32	1053	0	86.8	45-145	913.2	0.115	30		
4-Methyl-2-pentanone	1230	32	1053	0	117	45-145	1202	2.29	30		
Acetone	1146	110	1053	0	109	20-160	1239	7.86	30		
Benzene	1041	32	1053	0	98.8	75-125	1074	3.14	30		
Bromodichloromethane	982.1	32	1053	0	93.3	70-130	976.3	0.591	30		
Bromoform	630.5	32	1053	0	59.9	55-135	628.9	0.251	30		
Bromomethane	211.1	79	1053	0	20	30-160	185.8	12.7	30	S	
Carbon disulfide	748.4	32	1053	0	71.1	45-160	781.1	4.27	30		
Carbon tetrachloride	866.3	32	1053	0	82.3	65-135	879.5	1.51	30		
Chlorobenzene	1016	32	1053	0	96.5	75-125	1035	1.85	30		
Chloroethane	802.1	110	1053	0	76.2	40-155	871.1	8.24	30		
Chloroform	1021	32	1053	0	97	70-125	1018	0.207	30		
Chloromethane	680	110	1053	0	64.6	50-130	691.6	1.69	30		
cis-1,2-Dichloroethene	942.1	32	1053	0	89.5	65-125	970	2.92	30		
cis-1,3-Dichloropropene	973.7	32	1053	0	92.5	70-125	984.7	1.13	30		
Dibromochloromethane	667.4	32	1053	0	63.4	65-135	635.3	4.93	30	S	
Dichlorodifluoromethane	590.5	32	1053	0	56.1	35-135	598.9	1.42	30		
Ethylbenzene	1008	32	1053	0	95.8	75-125	1029	2.07	30		
Isopropylbenzene	1049	32	1053	0	99.7	75-130	1046	0.352	30		
Methyl tert-butyl ether	1058	32	1053	0	101	75-125	1059	0.0994	30		
Methylene chloride	948.4	32	1053	0	90.1	55-145	973.2	2.57	30		
Styrene	1051	32	1053	0	99.8	75-125	1078	2.57	30		
Tetrachloroethene	997.4	32	1053	0	94.8	64-140	1022	2.45	30		
Toluene	964.7	32	1053	0	91.6	70-125	975.8	1.14	30		
trans-1,2-Dichloroethene	956.3	32	1053	0	90.8	65-135	1024	6.86	30		
trans-1,3-Dichloropropene	902.1	32	1053	0	85.7	65-125	890	1.35	30		
Trichloroethene	1010	32	1053	0	96	75-125	1058	4.68	30		
Trichlorofluoromethane	807.4	32	1053	0	76.7	25-185	855.3	5.76	30		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50856		Instrument ID VMS6		Method: SW8260B					
Vinyl chloride	691.1	32	1053	0	65.6	60-125	686.8	0.611	30
Xylenes, Total	3056	95	3158	0	96.8	75-125	3112	1.79	30
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1038</i>	<i>0</i>	<i>1053</i>	<i>0</i>	<i>98.6</i>	<i>70-130</i>	<i>1048</i>	<i>0.959</i>	<i>30</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1125</i>	<i>0</i>	<i>1053</i>	<i>0</i>	<i>107</i>	<i>70-130</i>	<i>1102</i>	<i>2.08</i>	<i>30</i>
<i>Surr: Dibromofluoromethane</i>	<i>1086</i>	<i>0</i>	<i>1053</i>	<i>0</i>	<i>103</i>	<i>70-130</i>	<i>1083</i>	<i>0.291</i>	<i>30</i>
<i>Surr: Toluene-d8</i>	<i>1069</i>	<i>0</i>	<i>1053</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>1052</i>	<i>1.64</i>	<i>30</i>

The following samples were analyzed in this batch:	1308936-39A	1308936-41A	1308936-42A	
	1308936-43A	1308936-44A	1308936-45A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **R125753** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R125753				Units: % of sample		Analysis Date: 08/26/13 09:30 PM		
Client ID:		Run ID: MOIST_130826C				SeqNo: 2427024		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	0.03	0.050								J

LCS		Sample ID: LCS-R125753				Units: % of sample		Analysis Date: 08/26/13 09:30 PM		
Client ID:		Run ID: MOIST_130826C				SeqNo: 2427023		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100	0	100	99.5-100.5	0			

DUP		Sample ID: 1308936-11B DUP				Units: % of sample		Analysis Date: 08/26/13 09:30 PM		
Client ID: SO-17360-082013-MR-077		Run ID: MOIST_130826C				SeqNo: 2427014		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	6.24	0.050	0	0	0	0-0	6.06	2.93	20	

DUP		Sample ID: 1308936-16BDUP				Units: % of sample		Analysis Date: 08/26/13 09:30 PM		
Client ID: SO-17360-082013-MR-082		Run ID: MOIST_130826C				SeqNo: 2427020		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	4.61	0.050	0	0	0	0-0	4.65	0.864	20	

The following samples were analyzed in this batch:

1308936-01B	1308936-02B	1308936-03B
1308936-04B	1308936-05B	1308936-06B
1308936-07B	1308936-08B	1308936-09B
1308936-10B	1308936-11B	1308936-12B
1308936-13B	1308936-14B	1308936-15B
1308936-16B	1308936-17B	1308936-18B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **R125772** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R125772				Units: % of sample		Analysis Date: 08/27/13 08:00 AM		
Client ID:		Run ID: MOIST_130827A				SeqNo: 2427619		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.050

LCS		Sample ID: LCS-R125772				Units: % of sample		Analysis Date: 08/27/13 08:00 AM		
Client ID:		Run ID: MOIST_130827A				SeqNo: 2427617		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP		Sample ID: 1308936-19BDUP				Units: % of sample		Analysis Date: 08/27/13 08:00 AM		
Client ID: SO-17360-082013-MR-086		Run ID: MOIST_130827A				SeqNo: 2427591		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 5.83 0.050 0 0 0 0-0 5.77 1.03 20

DUP		Sample ID: 1308936-40BDUP				Units: % of sample		Analysis Date: 08/27/13 08:00 AM		
Client ID: SO-17360-082013-MR-106		Run ID: MOIST_130827A				SeqNo: 2427616		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 6.17 0.050 0 0 0 0-0 5.98 3.13 20

The following samples were analyzed in this batch:

1308936-19B	1308936-20B	1308936-21B
1308936-22B	1308936-23B	1308936-24B
1308936-25B	1308936-26B	1308936-27B
1308936-28B	1308936-29B	1308936-30B
1308936-31B	1308936-32B	1308936-33B
1308936-34B	1308936-35B	1308936-36B
1308936-37B	1308936-40B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308936
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **R125773** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R125773				Units: % of sample		Analysis Date: 08/27/13 09:30 AM		
Client ID:		Run ID: MOIST_130827B				SeqNo: 2427654		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	0.03	0.050								J

LCS		Sample ID: LCS-R125773				Units: % of sample		Analysis Date: 08/27/13 09:30 AM		
Client ID:		Run ID: MOIST_130827B				SeqNo: 2427653		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100	0	100	99.5-100.5	0			

DUP		Sample ID: 1308927-01ADUP				Units: % of sample		Analysis Date: 08/27/13 09:30 AM		
Client ID:		Run ID: MOIST_130827B				SeqNo: 2427628		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	11.27	0.050	0	0	0	0-0	10.55	6.6	20	

DUP		Sample ID: 1308936-39BDUP				Units: % of sample		Analysis Date: 08/27/13 09:30 AM		
Client ID: SO-17360-082013-MR-105		Run ID: MOIST_130827B				SeqNo: 2427642		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	9.72	0.050	0	0	0	0-0	10.1	3.83	20	

The following samples were analyzed in this batch:

1308936-38B	1308936-39B	1308936-41B
1308936-42B	1308936-43B	1308936-44B
1308936-45B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

1308936
COC NO.: **PL-10098**
PAGE **7** OF **12**

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017360				Laboratory Name: ALS				Lab Location: Holland, MI				SSOW ID: 17360-TDS-19																																																																			
Project Name: Former Grand Rapids Metal Plant				Lab Contact: Tom Beamish				Lab Quote No:				Cooler No:																																																																			
Project Location: Wyoming, MI				SAMPLE TYPE				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)																																																																			
Chemistry Contact: Paul Wiseman				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Matrix Code (see back of COC)</th> <th>Grab (G) or Comp (C)</th> <th>Unpreserved</th> <th>Hydrochloric Acid (HCl)</th> <th>Nitric Acid (HNO₃)</th> <th>Sulfuric Acid (H₂SO₄)</th> <th>Sodium Hydroxide (NaOH)</th> <th>Methanol/Water (Soil VOC)</th> <th>EnCores 3x5-g, 1x25-g</th> <th>Other:</th> <th>Total Containers/Sample</th> <th>TCL VOCs</th> <th>PNAs</th> <th>TAL Metals</th> <th>MS/MSD Request</th> </tr> <tr> <td>50</td> <td>G</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td>3</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> </table>				Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	TCL VOCs	PNAs	TAL Metals	MS/MSD Request	50	G	1						2		3	X	X	X		Carrier: CRA																																									
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50	G	1						2		3	X	X	X																																																																		
Sampler(s): Matt Ramsey												Date Shipped: 8/23/13																																																																			
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TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☒ 1 Week ☐ 2 Week ☐ Other:				Total Number of Containers: 45 All Samples in Cooler must be on COC				Notes/ Special Requirements:																																																																							
RELINQUISHED BY		COMPANY	DATE	TIME	RECEIVED BY		COMPANY	DATE	TIME																																																																						
1. [Signature]		CRA	8/23/13		1. [Signature]		ALS	8/23/13	1615																																																																						
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THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE - Fully Executed Copy (CRA) YELLOW - Receiving Laboratory Copy PINK - Shipper GOLDENROD - Sampling Crew

CRA Form: COC-10A (20110804)



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

1308936
COC NO.: **PL-10960**
PAGE 9 OF 12

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017360				Laboratory Name: ALS				Lab Location: Holland, MI				SSOW ID: 17360-T05-19																																																																																									
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Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)					Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	TCL VOCs	PAHs	TAL Metals	MS/MSD Request																																																																																			
Sampler(s): Matt Ramsey				Airbill No:																																																																																																	
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Item</th> <th>SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)</th> <th>DATE (mm/dd/yyyy)</th> <th>TIME (hh:mm)</th> </tr> </thead> <tbody> <tr><td>16</td><td>SO-17360-082013-MR-082</td><td>8/24/13</td><td>1150</td></tr> <tr><td>17</td><td>-084</td><td></td><td>1200</td></tr> <tr><td>18</td><td>-085</td><td></td><td>1225</td></tr> <tr><td>19</td><td>-086</td><td></td><td>1230</td></tr> <tr><td>20</td><td>-087</td><td></td><td>1235</td></tr> <tr><td>21</td><td>-088</td><td></td><td>1240</td></tr> <tr><td>22</td><td>-089 (MR)</td><td></td><td>1245</td></tr> <tr><td>23</td><td>-089 (246-4)</td><td></td><td>1300</td></tr> <tr><td>24</td><td>-090</td><td></td><td>1305</td></tr> <tr><td>25</td><td>-097</td><td></td><td>1310</td></tr> <tr><td>26</td><td>-098</td><td></td><td>1315</td></tr> <tr><td>27</td><td>-099</td><td></td><td>1320</td></tr> <tr><td>28</td><td>-014</td><td></td><td>1325</td></tr> <tr><td>29</td><td>-095</td><td></td><td>1410</td></tr> <tr><td>30</td><td>-096</td><td></td><td>1415</td></tr> </tbody> </table>				Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yyyy)	TIME (hh:mm)	16	SO-17360-082013-MR-082	8/24/13	1150	17	-084		1200	18	-085		1225	19	-086		1230	20	-087		1235	21	-088		1240	22	-089 (MR)		1245	23	-089 (246-4)		1300	24	-090		1305	25	-097		1310	26	-098		1315	27	-099		1320	28	-014		1325	29	-095		1410	30	-096		1415	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="10">Total Number of Containers: 51</td> <td colspan="5">Notes/ Special Requirements:</td> </tr> <tr> <td colspan="15">All Samples in Cooler must be on COC</td> </tr> </table>				Total Number of Containers: 51										Notes/ Special Requirements:					All Samples in Cooler must be on COC														
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TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☒ 1 Week ☐ 2 Week ☐ Other:																																																																																																					
RELINQUISHED BY				COMPANY		DATE		TIME		RECEIVED BY				COMPANY		DATE		TIME																																																																																			
1. Matt Ramsey				CRA		8/23/13				1. [Signature]				ACS		8/23/13		1615																																																																																			
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THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE - Fully Executed Copy (CRA) YELLOW - Receiving Laboratory Copy PINK - Shipper GOLDENROD - Sampling Crew

CRA Form: COC-10A (20110804)



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

1308936
COC NO.: **PL-10099**
PAGE **9** OF **12**
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017360				Laboratory Name: ALS				Lab Location: Holland, MI				SSOW ID: 17360-T05-19			
Project Name: Former Grand Rapids Metal Plant				Lab Contact: Tom Beamish				Lab Quote No:				Cooler No:			
Project Location: Wyoming, MI				SAMPLE TYPE				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)			
Chemistry Contact: Paul Wiseman				Matrix Code (see back of COC)				Grab (G) or Comp (C)				Unpreserved			
Sampler(s): Matt Ramsey															
DATE (mm/dd/yy)				TIME (hh:mm)				TCL VOCs				PbAs			
TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☒ 1 Week ☐ 2 Week ☐ Other:				Total Number of Containers:				Notes/ Special Requirements:							
All Samples in Cooler must be on COC															
RELINQUISHED BY				COMPANY				DATE				TIME			
1. [Signature]				CRA				8/23/13				1615			
2.															
3.															
RECEIVED BY				COMPANY				DATE				TIME			
1. [Signature]				ALS				8/23/13				1615			
2.															
3.															

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE - Fully Executed Copy (CRA) YELLOW - Receiving Laboratory Copy PINK - Shipper GOLDENROD - Sampling Crew

CRA Form: COC-10A (20110804)

Sample Receipt Checklist

Client Name: **CRA - PLYMOUTH**

Date/Time Received: **23-Aug-13 16:15**

Work Order: **1308936**

Received by: **KRW**

Checklist completed by <u>Diane Shaw</u>	23-Aug-13	Reviewed by: <u>Tom Bramish</u>	24-Aug-13
eSignature	Date	eSignature	Date

Matrices: Soil

Carrier name: Client

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Sample(s) received on ice?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	<u>4.0 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>8/23/2013 4:41:41 PM</u>		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒
pH adjusted?	Yes ☐	No ☐	N/A ☒
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



05-Sep-2013

Paul Wiseman
Conestoga-Rovers & Associates
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Former GRMP (17360-T05Y13-01Y13)**

Work Order: **1308937**

Dear Paul,

ALS Environmental received 79 samples on 23-Aug-2013 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 184.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Beamish".

Electronically approved by: Tom Beamish

Tom Beamish
Senior Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Work Order: 1308937

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1308937-01	SO-017360-081913-MR-001	Soil		08/19/13 11:24	08/23/13 16:15	☐
1308937-02	SO-017360-081913-MR-002	Soil		08/19/13 11:26	08/23/13 16:15	☐
1308937-03	SO-017360-081913-MR-003	Soil		08/19/13 11:28	08/23/13 16:15	☐
1308937-04	SO-017360-081913-MR-004	Soil		08/19/13 11:30	08/23/13 16:15	☐
1308937-05	SO-017360-081913-MR-005	Soil		08/19/13 11:32	08/23/13 16:15	☐
1308937-06	SO-017360-081913-MR-006	Soil		08/19/13 11:34	08/23/13 16:15	☐
1308937-07	SO-017360-081913-MR-007	Soil		08/19/13 11:36	08/23/13 16:15	☐
1308937-08	SO-017360-081913-MR-008	Soil		08/19/13 11:38	08/23/13 16:15	☐
1308937-09	SO-017360-081913-MR-009	Soil		08/19/13 11:40	08/23/13 16:15	☐
1308937-10	SO-017360-081913-MR-010	Soil		08/19/13 11:50	08/23/13 16:15	☐
1308937-11	SO-017360-081913-MR-011	Soil		08/19/13 11:52	08/23/13 16:15	☐
1308937-12	SO-017360-081913-MR-012	Soil		08/19/13 11:54	08/23/13 16:15	☐
1308937-13	SO-017360-081913-MR-013	Soil		08/19/13 11:56	08/23/13 16:15	☐
1308937-14	SO-017360-081913-MR-014	Soil		08/19/13 11:58	08/23/13 16:15	☐
1308937-15	SO-017360-081913-MR-015	Soil		08/19/13 12:00	08/23/13 16:15	☐
1308937-16	SO-017360-081913-MR-016	Soil		08/19/13 12:02	08/23/13 16:15	☐
1308937-17	SO-017360-081913-MR-018	Soil		08/19/13 12:06	08/23/13 16:15	☐
1308937-18	SO-017360-081913-MR-019	Soil		08/19/13 12:40	08/23/13 16:15	☐
1308937-19	SO-017360-081913-MR-020	Soil		08/19/13 12:42	08/23/13 16:15	☐
1308937-20	SO-017360-081913-MR-021	Soil		08/19/13 12:44	08/23/13 16:15	☐
1308937-21	SO-017360-081913-MR-022	Soil		08/19/13 12:46	08/23/13 16:15	☐
1308937-22	SO-017360-081913-MR-023	Soil		08/19/13 12:48	08/23/13 16:15	☐
1308937-23	SO-017360-081913-MR-024	Soil		08/19/13 12:50	08/23/13 16:15	☐
1308937-24	SO-017360-081913-MR-026	Soil		08/19/13 12:54	08/23/13 16:15	☐
1308937-25	SO-017360-081913-MR-027	Soil		08/19/13 13:20	08/23/13 16:15	☐
1308937-26	SO-017360-081913-MR-028	Soil		08/19/13 13:22	08/23/13 16:15	☐
1308937-27	SO-017360-081913-MR-029	Soil		08/19/13 13:24	08/23/13 16:15	☐
1308937-28	SO-017360-081913-MR-030	Soil		08/19/13 13:26	08/23/13 16:15	☐
1308937-29	SO-017360-081913-MR-031	Soil		08/19/13 13:28	08/23/13 16:15	☐
1308937-30	SO-017360-081913-MR-032	Soil		08/19/13 13:30	08/23/13 16:15	☐
1308937-31	SO-017360-081913-MR-033	Soil		08/19/13 13:32	08/23/13 16:15	☐
1308937-32	SO-017360-081913-MR-034	Soil		08/19/13 13:50	08/23/13 16:15	☐
1308937-33	SO-017360-081913-MR-035	Soil		08/19/13 13:52	08/23/13 16:15	☐
1308937-34	SO-017360-081913-MR-036	Soil		08/19/13 13:54	08/23/13 16:15	☐
1308937-35	SO-017360-081913-MR-037	Soil		08/19/13 13:56	08/23/13 16:15	☐
1308937-36	SO-017360-081913-MR-038	Soil		08/19/13 13:58	08/23/13 16:15	☐
1308937-37	SO-017360-081913-MR-039	Soil		08/19/13 14:00	08/23/13 16:15	☐
1308937-38	SO-017360-081913-MR-040	Soil		08/19/13 14:02	08/23/13 16:15	☐
1308937-39	SO-017360-081913-MR-041	Soil		08/19/13 14:04	08/23/13 16:15	☐

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Work Order: 1308937

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1308937-40	SO-017360-081913-MR-042	Soil		08/19/13 14:25	08/23/13 16:15	☐
1308937-41	SO-017360-081913-MR-043	Soil		08/19/13 14:27	08/23/13 16:15	☐
1308937-42	SO-017360-081913-MR-045	Soil		08/19/13 14:31	08/23/13 16:15	☐
1308937-43	SO-017360-081913-MR-046	Soil		08/19/13 14:33	08/23/13 16:15	☐
1308937-44	SO-017360-081913-MR-047	Soil		08/19/13 14:35	08/23/13 16:15	☐
1308937-45	SO-017360-081913-MR-048	Soil		08/19/13 14:37	08/23/13 16:15	☐
1308937-46	SO-017360-081913-MR-049	Soil		08/19/13 14:39	08/23/13 16:15	☐
1308937-47	SO-017360-081913-MR-050	Soil		08/19/13 14:41	08/23/13 16:15	☐
1308937-48	SO-017360-081913-MR-051	Soil		08/19/13 14:43	08/23/13 16:15	☐
1308937-49	SO-017360-081913-MR-052	Soil		08/19/13 14:45	08/23/13 16:15	☐
1308937-50	SO-017360-081913-MR-053	Soil		08/19/13 14:47	08/23/13 16:15	☐
1308937-51	SO-017360-081913-MR-054	Soil		08/19/13 14:49	08/23/13 16:15	☐
1308937-52	SO-017360-081913-MR-055	Soil		08/19/13 14:51	08/23/13 16:15	☐
1308937-53	SO-017360-081913-MR-056	Soil		08/19/13 14:53	08/23/13 16:15	☐
1308937-54	SO-017360-081913-MR-057	Soil		08/19/13 14:55	08/23/13 16:15	☐
1308937-55	SO-017360-081913-MR-058	Soil		08/19/13 15:10	08/23/13 16:15	☐
1308937-56	SO-017360-081913-MR-059	Soil		08/19/13 15:12	08/23/13 16:15	☐
1308937-57	SO-017360-081913-MR-060	Soil		08/19/13 15:14	08/23/13 16:15	☐
1308937-58	SO-017360-081913-MR-061	Soil		08/19/13 15:16	08/23/13 16:15	☐
1308937-59	SO-017360-081913-MR-062	Soil		08/19/13 15:18	08/23/13 16:15	☐
1308937-60	SO-017360-081913-MR-064	Soil		08/19/13 15:22	08/23/13 16:15	☐
1308937-61	SO-017360-081913-MR-065	Soil		08/19/13 15:24	08/23/13 16:15	☐
1308937-62	SO-017360-081913-MR-066	Soil		08/19/13 15:26	08/23/13 16:15	☐
1308937-63	SO-017360-082113-MR-113	Soil		08/21/13 09:15	08/23/13 16:15	☐
1308937-64	SO-017360-082113-MR-114	Soil		08/21/13 09:25	08/23/13 16:15	☐
1308937-65	WG-17360-082113-EB-122	Water		08/21/13 15:00	08/23/13 16:15	☐
1308937-66	WG-17360-082113-EB-123	Water		08/21/13 15:15	08/23/13 16:15	☐
1308937-67	SO-17360-082213-MR-152	Soil		08/22/13 11:00	08/23/13 16:15	☐
1308937-68	SO-17360-082213-MR-153	Soil		08/22/13 11:50	08/23/13 16:15	☐
1308937-69	SO-17360-082213-MR-154	Soil		08/22/13 13:10	08/23/13 16:15	☐
1308937-70	SO-17360-082213-MR-155	Soil		08/22/13 13:15	08/23/13 16:15	☐
1308937-71	SO-17360-082213-MR-156	Soil		08/22/13 13:20	08/23/13 16:15	☐
1308937-72	SO-17360-082213-MR-157	Soil		08/22/13 14:40	08/23/13 16:15	☐
1308937-73	SO-17360-082213-MR-158	Soil		08/22/13 15:05	08/23/13 16:15	☐
1308937-74	SO-17360-082213-MR-159	Soil		08/22/13 15:15	08/23/13 16:15	☐
1308937-75	TB-17360-082213-MR-160	Soil		08/22/13	08/23/13 16:15	☐
1308937-76	TB-17360-082213-MR-161	Soil		08/22/13	08/23/13 16:15	☐
1308937-77	TB-17360-082213-MR-162	Soil		08/22/13	08/23/13 16:15	☐
1308937-78	TB-17360-082213-MR-163	Soil		08/22/13	08/23/13 16:15	☐
1308937-79	TB-17360-082213-MR-164	Soil		08/22/13	08/23/13 16:15	☐

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
WorkOrder: 1308937

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg	Micrograms per Kilogram
µg/Kg-dry	Micrograms per Kilogram Dry Weight
µg/L	Micrograms per Liter
mg/Kg-dry	Milligrams per Kilogram Dry Weight

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Work Order: 1308937

Case Narrative**Analytical Comments:**

Batch 50858, Method SVO_8270_S, Sample 1308937-63A: The SVOC surrogate recovery is outside the control limits due to matrix interference.

QC Comments:

Batch 50858, Method SVO_8270_S, Sample SLCSS1-50858: The LCS recovery was above the upper control limit. All sample results in the batch were non-detect. No qualification is necessary for Phenol.

Batch 50858, Method SVO_8270_S, Sample 1308937-64A MS: The MS and MSD recoveries were above the upper control limit. The corresponding result in the parent sample may be biased high for Bis(2-ethylhexyl)phthalate.

Batch 50858, Method SVO_8270_S, Sample 1308937-64A MS: The MS and MSD recoveries were below the lower control limit. The corresponding result in the parent sample may be biased low for Fluoranthene.

Batch 50858, Method SVO_8270_S, Sample 1308937-64A MSD: The matrix spike duplicate recovery was outside of the control limit. However, the matrix spike recovery and the RPD between the MS and MSD were in control. No qualification is required for Di-n-octyl phthalate.

Batch 50856, Method VOC_8260_S, Sample LCS-50856: The LCS recovery was outside of the lower control limit but within the Sporadic Marginal Exceedence limit. No qualification is necessary for 1,2-Dibromoethane and Bromomethane.

Batch 50856, Method VOC_8260_S, Sample 1308937-68B MS: The MS and MSD recoveries were below the lower control limit. The corresponding results in the parent sample may be biased low for 1,2-Dibromoethane and Bromomethane.

Batch 50857, Method VOC_8260_S, Sample LCS-50857: The LCS recovery was outside of the upper control limit but within the Sporadic Marginal Exceedence limit. No qualification is necessary for 1,2-Dibromoethane.

Batch R125758, Method VOC_8260_W, Sample VLCSW2-130827: The LCS recovery was above the upper control limit. All sample results in the batch were non-detect. No

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Work Order: 1308937

Case Narrative

qualification is necessary for 1,2-Dibromoethane.

Batch R125763, Method VOC_8260_W, Sample VLCSW1-130828: The LCS recovery was above the upper control limit. All sample results in the batch were non-detect. No qualification is necessary for 4-Methyl-2-pentanone and Chloroethane.

Batch R125763, Method VOC_8260_W, Sample 1308937-65B MS: The MS and MSD recoveries were above the upper control limit. The corresponding result in the parent sample was non-detect. No qualification is required for Chloroethane.

Batch R125763, Method VOC_8260_W, Sample 1308937-65B MS: The MS and/or MSD recoveries were below the lower control limit. The corresponding results in the parent sample may be biased low for 1,2-Dibromoethane and Chloromethane.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-001
Collection Date: 08/19/13 11:24 AM

Work Order: 1308937
Lab ID: 1308937-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/26/13		Analyst: JD
<u>BatchID: 50823</u>							
Aroclor 1016	U		35	320	µg/Kg-dry	1	08/28/13 15:55
Aroclor 1221	U		35	320	µg/Kg-dry	1	08/28/13 15:55
Aroclor 1232	U		35	320	µg/Kg-dry	1	08/28/13 15:55
Aroclor 1242	U		35	320	µg/Kg-dry	1	08/28/13 15:55
Aroclor 1248	U		35	320	µg/Kg-dry	1	08/28/13 15:55
Aroclor 1254	U		11	320	µg/Kg-dry	1	08/28/13 15:55
Aroclor 1260	U		11	320	µg/Kg-dry	1	08/28/13 15:55
Surr: Decachlorobiphenyl	90.1			40-140	%REC	1	08/28/13 15:55
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125637</u>							
Moisture	2.6		0.025	0.050	% of sample	1	08/24/13 15:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-002
Collection Date: 08/19/13 11:26 AM

Work Order: 1308937
Lab ID: 1308937-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep: SW3541 / 8/26/13		Analyst: JD
BatchID: <u>50823</u>							
Aroclor 1016	U		36	340	µg/Kg-dry	1	08/28/13 16:08
Aroclor 1221	U		36	340	µg/Kg-dry	1	08/28/13 16:08
Aroclor 1232	U		36	340	µg/Kg-dry	1	08/28/13 16:08
Aroclor 1242	U		36	340	µg/Kg-dry	1	08/28/13 16:08
Aroclor 1248	U		36	340	µg/Kg-dry	1	08/28/13 16:08
Aroclor 1254	U		11	340	µg/Kg-dry	1	08/28/13 16:08
Aroclor 1260	U		11	340	µg/Kg-dry	1	08/28/13 16:08
Surr: Decachlorobiphenyl	92.1			40-140	%REC	1	08/28/13 16:08
MOISTURE			A2540 G				Analyst: BAS
BatchID: <u>R125637</u>							
Moisture	2.7		0.025	0.050	% of sample	1	08/24/13 15:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-003
Collection Date: 08/19/13 11:28 AM

Work Order: 1308937
Lab ID: 1308937-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/26/13		Analyst: JD
<u>BatchID: 50823</u>							
Aroclor 1016	U		35	330	µg/Kg-dry	1	08/28/13 16:22
Aroclor 1221	U		35	330	µg/Kg-dry	1	08/28/13 16:22
Aroclor 1232	U		35	330	µg/Kg-dry	1	08/28/13 16:22
Aroclor 1242	U		35	330	µg/Kg-dry	1	08/28/13 16:22
Aroclor 1248	U		35	330	µg/Kg-dry	1	08/28/13 16:22
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/28/13 16:22
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/28/13 16:22
Surr: Decachlorobiphenyl	94.1			40-140	%REC	1	08/28/13 16:22
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125637</u>							
Moisture	2.0		0.025	0.050	% of sample	1	08/24/13 15:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-004
Collection Date: 08/19/13 11:30 AM

Work Order: 1308937
Lab ID: 1308937-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/26/13		Analyst: JD
<u>BatchID: 50823</u>							
Aroclor 1016	U		34	320	µg/Kg-dry	1	08/28/13 16:35
Aroclor 1221	U		34	320	µg/Kg-dry	1	08/28/13 16:35
Aroclor 1232	U		34	320	µg/Kg-dry	1	08/28/13 16:35
Aroclor 1242	U		34	320	µg/Kg-dry	1	08/28/13 16:35
Aroclor 1248	U		34	320	µg/Kg-dry	1	08/28/13 16:35
Aroclor 1254	U		11	320	µg/Kg-dry	1	08/28/13 16:35
Aroclor 1260	U		11	320	µg/Kg-dry	1	08/28/13 16:35
Surr: Decachlorobiphenyl	94.1			40-140	%REC	1	08/28/13 16:35
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125637</u>							
Moisture	1.8		0.025	0.050	% of sample	1	08/24/13 15:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-005
Collection Date: 08/19/13 11:32 AM

Work Order: 1308937
Lab ID: 1308937-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/26/13		Analyst: JD
<u>BatchID: 50823</u>							
Aroclor 1016	U		36	340	µg/Kg-dry	1	08/28/13 17:16
Aroclor 1221	U		36	340	µg/Kg-dry	1	08/28/13 17:16
Aroclor 1232	U		36	340	µg/Kg-dry	1	08/28/13 17:16
Aroclor 1242	U		36	340	µg/Kg-dry	1	08/28/13 17:16
Aroclor 1248	U		36	340	µg/Kg-dry	1	08/28/13 17:16
Aroclor 1254	U		11	340	µg/Kg-dry	1	08/28/13 17:16
Aroclor 1260	U		11	340	µg/Kg-dry	1	08/28/13 17:16
Surr: Decachlorobiphenyl	99.1			40-140	%REC	1	08/28/13 17:16
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125637</u>							
Moisture	4.9		0.025	0.050	% of sample	1	08/24/13 15:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-006
Collection Date: 08/19/13 11:34 AM

Work Order: 1308937
Lab ID: 1308937-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/26/13		Analyst: JD
<u>BatchID: 50823</u>							
Aroclor 1016	U		36	340	µg/Kg-dry	1	08/28/13 17:29
Aroclor 1221	U		36	340	µg/Kg-dry	1	08/28/13 17:29
Aroclor 1232	U		36	340	µg/Kg-dry	1	08/28/13 17:29
Aroclor 1242	U		36	340	µg/Kg-dry	1	08/28/13 17:29
Aroclor 1248	U		36	340	µg/Kg-dry	1	08/28/13 17:29
Aroclor 1254	U		11	340	µg/Kg-dry	1	08/28/13 17:29
Aroclor 1260	U		11	340	µg/Kg-dry	1	08/28/13 17:29
Surr: Decachlorobiphenyl	102			40-140	%REC	1	08/28/13 17:29
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125637</u>							
Moisture	5.6		0.025	0.050	% of sample	1	08/24/13 15:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-007
Collection Date: 08/19/13 11:36 AM

Work Order: 1308937
Lab ID: 1308937-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/26/13		Analyst: JD
<u>BatchID: 50823</u>							
Aroclor 1016	U		42	390	µg/Kg-dry	1	08/28/13 17:43
Aroclor 1221	U		42	390	µg/Kg-dry	1	08/28/13 17:43
Aroclor 1232	U		42	390	µg/Kg-dry	1	08/28/13 17:43
Aroclor 1242	U		42	390	µg/Kg-dry	1	08/28/13 17:43
Aroclor 1248	U		42	390	µg/Kg-dry	1	08/28/13 17:43
Aroclor 1254	U		13	390	µg/Kg-dry	1	08/28/13 17:43
Aroclor 1260	U		13	390	µg/Kg-dry	1	08/28/13 17:43
Surr: Decachlorobiphenyl	97.1			40-140	%REC	1	08/28/13 17:43
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125637</u>							
Moisture	18		0.025	0.050	% of sample	1	08/24/13 15:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-008
Collection Date: 08/19/13 11:38 AM

Work Order: 1308937
Lab ID: 1308937-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/26/13		Analyst: JD
<u>BatchID: 50823</u>							
Aroclor 1016	U		37	340	µg/Kg-dry	1	08/28/13 17:56
Aroclor 1221	U		37	340	µg/Kg-dry	1	08/28/13 17:56
Aroclor 1232	U		37	340	µg/Kg-dry	1	08/28/13 17:56
Aroclor 1242	U		37	340	µg/Kg-dry	1	08/28/13 17:56
Aroclor 1248	U		37	340	µg/Kg-dry	1	08/28/13 17:56
Aroclor 1254	U		12	340	µg/Kg-dry	1	08/28/13 17:56
Aroclor 1260	U		12	340	µg/Kg-dry	1	08/28/13 17:56
Surr: Decachlorobiphenyl	93.1			40-140	%REC	1	08/28/13 17:56
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125637</u>							
Moisture	4.6		0.025	0.050	% of sample	1	08/24/13 15:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-009
Collection Date: 08/19/13 11:40 AM

Work Order: 1308937
Lab ID: 1308937-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/26/13		Analyst: JD
<u>BatchID: 50823</u>							
Aroclor 1016	U		36	330	µg/Kg-dry	1	08/28/13 18:10
Aroclor 1221	U		36	330	µg/Kg-dry	1	08/28/13 18:10
Aroclor 1232	U		36	330	µg/Kg-dry	1	08/28/13 18:10
Aroclor 1242	U		36	330	µg/Kg-dry	1	08/28/13 18:10
Aroclor 1248	U		36	330	µg/Kg-dry	1	08/28/13 18:10
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/28/13 18:10
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/28/13 18:10
Surr: Decachlorobiphenyl	96.1			40-140	%REC	1	08/28/13 18:10
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125637</u>							
Moisture	5.5		0.025	0.050	% of sample	1	08/24/13 15:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-010
Collection Date: 08/19/13 11:50 AM

Work Order: 1308937
Lab ID: 1308937-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/26/13		Analyst: JD
<u>BatchID: 50823</u>							
Aroclor 1016	U		36	330	µg/Kg-dry	1	08/28/13 18:24
Aroclor 1221	U		36	330	µg/Kg-dry	1	08/28/13 18:24
Aroclor 1232	U		36	330	µg/Kg-dry	1	08/28/13 18:24
Aroclor 1242	U		36	330	µg/Kg-dry	1	08/28/13 18:24
Aroclor 1248	U		36	330	µg/Kg-dry	1	08/28/13 18:24
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/28/13 18:24
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/28/13 18:24
Surr: Decachlorobiphenyl	99.1			40-140	%REC	1	08/28/13 18:24
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125637</u>							
Moisture	3.2		0.025	0.050	% of sample	1	08/24/13 15:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-011
Collection Date: 08/19/13 11:52 AM

Work Order: 1308937
Lab ID: 1308937-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/26/13		Analyst: JD
<u>BatchID: 50823</u>							
Aroclor 1016	U		36	340	µg/Kg-dry	1	08/28/13 18:37
Aroclor 1221	U		36	340	µg/Kg-dry	1	08/28/13 18:37
Aroclor 1232	U		36	340	µg/Kg-dry	1	08/28/13 18:37
Aroclor 1242	U		36	340	µg/Kg-dry	1	08/28/13 18:37
Aroclor 1248	U		36	340	µg/Kg-dry	1	08/28/13 18:37
Aroclor 1254	U		11	340	µg/Kg-dry	1	08/28/13 18:37
Aroclor 1260	U		11	340	µg/Kg-dry	1	08/28/13 18:37
Surr: Decachlorobiphenyl	92.1			40-140	%REC	1	08/28/13 18:37
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125637</u>							
Moisture	3.7		0.025	0.050	% of sample	1	08/24/13 15:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-012
Collection Date: 08/19/13 11:54 AM

Work Order: 1308937
Lab ID: 1308937-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/26/13		Analyst: JD
<u>BatchID: 50823</u>							
Aroclor 1016	U		35	320	µg/Kg-dry	1	08/28/13 18:51
Aroclor 1221	U		35	320	µg/Kg-dry	1	08/28/13 18:51
Aroclor 1232	U		35	320	µg/Kg-dry	1	08/28/13 18:51
Aroclor 1242	U		35	320	µg/Kg-dry	1	08/28/13 18:51
Aroclor 1248	U		35	320	µg/Kg-dry	1	08/28/13 18:51
Aroclor 1254	U		11	320	µg/Kg-dry	1	08/28/13 18:51
Aroclor 1260	U		11	320	µg/Kg-dry	1	08/28/13 18:51
Surr: Decachlorobiphenyl	89.1			40-140	%REC	1	08/28/13 18:51
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125637</u>							
Moisture	3.2		0.025	0.050	% of sample	1	08/24/13 15:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-013
Collection Date: 08/19/13 11:56 AM

Work Order: 1308937
Lab ID: 1308937-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/26/13		Analyst: JD
<u>BatchID: 50823</u>							
Aroclor 1016	U		37	340	µg/Kg-dry	1	08/28/13 19:04
Aroclor 1221	U		37	340	µg/Kg-dry	1	08/28/13 19:04
Aroclor 1232	U		37	340	µg/Kg-dry	1	08/28/13 19:04
Aroclor 1242	U		37	340	µg/Kg-dry	1	08/28/13 19:04
Aroclor 1248	U		37	340	µg/Kg-dry	1	08/28/13 19:04
Aroclor 1254	U		12	340	µg/Kg-dry	1	08/28/13 19:04
Aroclor 1260	U		12	340	µg/Kg-dry	1	08/28/13 19:04
Surr: Decachlorobiphenyl	94.1			40-140	%REC	1	08/28/13 19:04
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125637</u>							
Moisture	6.2		0.025	0.050	% of sample	1	08/24/13 15:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-014
Collection Date: 08/19/13 11:58 AM

Work Order: 1308937
Lab ID: 1308937-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/26/13		Analyst: JD
<u>BatchID: 50823</u>							
Aroclor 1016	U		38	350	µg/Kg-dry	1	08/28/13 19:18
Aroclor 1221	U		38	350	µg/Kg-dry	1	08/28/13 19:18
Aroclor 1232	U		38	350	µg/Kg-dry	1	08/28/13 19:18
Aroclor 1242	U		38	350	µg/Kg-dry	1	08/28/13 19:18
Aroclor 1248	U		38	350	µg/Kg-dry	1	08/28/13 19:18
Aroclor 1254	U		12	350	µg/Kg-dry	1	08/28/13 19:18
Aroclor 1260	U		12	350	µg/Kg-dry	1	08/28/13 19:18
Surr: Decachlorobiphenyl	96.1			40-140	%REC	1	08/28/13 19:18
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125637</u>							
Moisture	5.8		0.025	0.050	% of sample	1	08/24/13 15:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-015
Collection Date: 08/19/13 12:00 PM

Work Order: 1308937
Lab ID: 1308937-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/26/13		Analyst: JD
<u>BatchID: 50823</u>							
Aroclor 1016	U		36	330	µg/Kg-dry	1	08/28/13 19:58
Aroclor 1221	U		36	330	µg/Kg-dry	1	08/28/13 19:58
Aroclor 1232	U		36	330	µg/Kg-dry	1	08/28/13 19:58
Aroclor 1242	U		36	330	µg/Kg-dry	1	08/28/13 19:58
Aroclor 1248	U		36	330	µg/Kg-dry	1	08/28/13 19:58
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/28/13 19:58
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/28/13 19:58
Surr: Decachlorobiphenyl	99.1			40-140	%REC	1	08/28/13 19:58
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125637</u>							
Moisture	3.1		0.025	0.050	% of sample	1	08/24/13 15:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-016
Collection Date: 08/19/13 12:02 PM

Work Order: 1308937
Lab ID: 1308937-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/26/13		Analyst: JD
<u>BatchID: 50823</u>							
Aroclor 1016	U		36	340	µg/Kg-dry	1	08/28/13 20:12
Aroclor 1221	U		36	340	µg/Kg-dry	1	08/28/13 20:12
Aroclor 1232	U		36	340	µg/Kg-dry	1	08/28/13 20:12
Aroclor 1242	U		36	340	µg/Kg-dry	1	08/28/13 20:12
Aroclor 1248	U		36	340	µg/Kg-dry	1	08/28/13 20:12
Aroclor 1254	U		11	340	µg/Kg-dry	1	08/28/13 20:12
Aroclor 1260	U		11	340	µg/Kg-dry	1	08/28/13 20:12
Surr: Decachlorobiphenyl	96.1			40-140	%REC	1	08/28/13 20:12
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125637</u>							
Moisture	2.9		0.025	0.050	% of sample	1	08/24/13 15:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-018
Collection Date: 08/19/13 12:06 PM

Work Order: 1308937
Lab ID: 1308937-17
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50844</u>							
Aroclor 1016	U		36	340	µg/Kg-dry	1	08/29/13 04:19
Aroclor 1221	U		36	340	µg/Kg-dry	1	08/29/13 04:19
Aroclor 1232	U		36	340	µg/Kg-dry	1	08/29/13 04:19
Aroclor 1242	U		36	340	µg/Kg-dry	1	08/29/13 04:19
Aroclor 1248	U		36	340	µg/Kg-dry	1	08/29/13 04:19
Aroclor 1254	U		11	340	µg/Kg-dry	1	08/29/13 04:19
Aroclor 1260	U		11	340	µg/Kg-dry	1	08/29/13 04:19
Surr: Decachlorobiphenyl	73.1			40-140	%REC	1	08/29/13 04:19
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125637</u>							
Moisture	6.4		0.025	0.050	% of sample	1	08/24/13 15:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-019
Collection Date: 08/19/13 12:40 PM

Work Order: 1308937
Lab ID: 1308937-18
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
BatchID: <u>50844</u>							
Aroclor 1016	U		35	330	µg/Kg-dry	1	08/29/13 04:33
Aroclor 1221	U		35	330	µg/Kg-dry	1	08/29/13 04:33
Aroclor 1232	U		35	330	µg/Kg-dry	1	08/29/13 04:33
Aroclor 1242	U		35	330	µg/Kg-dry	1	08/29/13 04:33
Aroclor 1248	U		35	330	µg/Kg-dry	1	08/29/13 04:33
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/29/13 04:33
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/29/13 04:33
Surr: Decachlorobiphenyl	82.1			40-140	%REC	1	08/29/13 04:33
MOISTURE			A2540 G				Analyst: BAS
BatchID: <u>R125637</u>							
Moisture	2.0		0.025	0.050	% of sample	1	08/24/13 15:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-020
Collection Date: 08/19/13 12:42 PM

Work Order: 1308937
Lab ID: 1308937-19
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50844</u>							
Aroclor 1016	U		36	340	µg/Kg-dry	1	08/29/13 04:47
Aroclor 1221	U		36	340	µg/Kg-dry	1	08/29/13 04:47
Aroclor 1232	U		36	340	µg/Kg-dry	1	08/29/13 04:47
Aroclor 1242	U		36	340	µg/Kg-dry	1	08/29/13 04:47
Aroclor 1248	U		36	340	µg/Kg-dry	1	08/29/13 04:47
Aroclor 1254	U		11	340	µg/Kg-dry	1	08/29/13 04:47
Aroclor 1260	U		11	340	µg/Kg-dry	1	08/29/13 04:47
Surr: Decachlorobiphenyl	85.1			40-140	%REC	1	08/29/13 04:47
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125637</u>							
Moisture	1.9		0.025	0.050	% of sample	1	08/24/13 15:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-021
Collection Date: 08/19/13 12:44 PM

Work Order: 1308937
Lab ID: 1308937-20
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50844</u>							
Aroclor 1016	U		35	320	µg/Kg-dry	1	08/29/13 05:00
Aroclor 1221	U		35	320	µg/Kg-dry	1	08/29/13 05:00
Aroclor 1232	U		35	320	µg/Kg-dry	1	08/29/13 05:00
Aroclor 1242	U		35	320	µg/Kg-dry	1	08/29/13 05:00
Aroclor 1248	U		35	320	µg/Kg-dry	1	08/29/13 05:00
Aroclor 1254	U		11	320	µg/Kg-dry	1	08/29/13 05:00
Aroclor 1260	U		11	320	µg/Kg-dry	1	08/29/13 05:00
Surr: Decachlorobiphenyl	86.1			40-140	%REC	1	08/29/13 05:00
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125677</u>							
Moisture	3.1		0.025	0.050	% of sample	1	08/25/13 14:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-022
Collection Date: 08/19/13 12:46 PM

Work Order: 1308937
Lab ID: 1308937-21
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50844</u>							
Aroclor 1016	U		36	340	µg/Kg-dry	1	08/29/13 05:14
Aroclor 1221	U		36	340	µg/Kg-dry	1	08/29/13 05:14
Aroclor 1232	U		36	340	µg/Kg-dry	1	08/29/13 05:14
Aroclor 1242	U		36	340	µg/Kg-dry	1	08/29/13 05:14
Aroclor 1248	U		36	340	µg/Kg-dry	1	08/29/13 05:14
Aroclor 1254	U		11	340	µg/Kg-dry	1	08/29/13 05:14
Aroclor 1260	U		11	340	µg/Kg-dry	1	08/29/13 05:14
Surr: Decachlorobiphenyl	94.1			40-140	%REC	1	08/29/13 05:14
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125677</u>							
Moisture	6.0		0.025	0.050	% of sample	1	08/25/13 14:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-023
Collection Date: 08/19/13 12:48 PM

Work Order: 1308937
Lab ID: 1308937-22
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50844</u>							
Aroclor 1016	U		37	340	µg/Kg-dry	1	08/29/13 05:27
Aroclor 1221	U		37	340	µg/Kg-dry	1	08/29/13 05:27
Aroclor 1232	U		37	340	µg/Kg-dry	1	08/29/13 05:27
Aroclor 1242	U		37	340	µg/Kg-dry	1	08/29/13 05:27
Aroclor 1248	U		37	340	µg/Kg-dry	1	08/29/13 05:27
Aroclor 1254	U		11	340	µg/Kg-dry	1	08/29/13 05:27
Aroclor 1260	U		11	340	µg/Kg-dry	1	08/29/13 05:27
Surr: Decachlorobiphenyl	94.1			40-140	%REC	1	08/29/13 05:27
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125677</u>							
Moisture	5.3		0.025	0.050	% of sample	1	08/25/13 14:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-024
Collection Date: 08/19/13 12:50 PM

Work Order: 1308937
Lab ID: 1308937-23
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50844</u>							
Aroclor 1016	U		37	340	µg/Kg-dry	1	08/29/13 05:41
Aroclor 1221	U		37	340	µg/Kg-dry	1	08/29/13 05:41
Aroclor 1232	U		37	340	µg/Kg-dry	1	08/29/13 05:41
Aroclor 1242	U		37	340	µg/Kg-dry	1	08/29/13 05:41
Aroclor 1248	U		37	340	µg/Kg-dry	1	08/29/13 05:41
Aroclor 1254	U		11	340	µg/Kg-dry	1	08/29/13 05:41
Aroclor 1260	U		11	340	µg/Kg-dry	1	08/29/13 05:41
Surr: Decachlorobiphenyl	91.1			40-140	%REC	1	08/29/13 05:41
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125677</u>							
Moisture	5.3		0.025	0.050	% of sample	1	08/25/13 14:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-026
Collection Date: 08/19/13 12:54 PM

Work Order: 1308937
Lab ID: 1308937-24
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50844</u>							
Aroclor 1016	U		36	340	µg/Kg-dry	1	08/29/13 06:35
Aroclor 1221	U		36	340	µg/Kg-dry	1	08/29/13 06:35
Aroclor 1232	U		36	340	µg/Kg-dry	1	08/29/13 06:35
Aroclor 1242	U		36	340	µg/Kg-dry	1	08/29/13 06:35
Aroclor 1248	U		36	340	µg/Kg-dry	1	08/29/13 06:35
Aroclor 1254	U		11	340	µg/Kg-dry	1	08/29/13 06:35
Aroclor 1260	U		11	340	µg/Kg-dry	1	08/29/13 06:35
Surr: Decachlorobiphenyl	99.1			40-140	%REC	1	08/29/13 06:35
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125677</u>							
Moisture	4.1		0.025	0.050	% of sample	1	08/25/13 14:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-027
Collection Date: 08/19/13 01:20 PM

Work Order: 1308937
Lab ID: 1308937-25
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50844</u>							
Aroclor 1016	U		36	340	µg/Kg-dry	1	08/29/13 06:48
Aroclor 1221	U		36	340	µg/Kg-dry	1	08/29/13 06:48
Aroclor 1232	U		36	340	µg/Kg-dry	1	08/29/13 06:48
Aroclor 1242	U		36	340	µg/Kg-dry	1	08/29/13 06:48
Aroclor 1248	U		36	340	µg/Kg-dry	1	08/29/13 06:48
Aroclor 1254	U		11	340	µg/Kg-dry	1	08/29/13 06:48
Aroclor 1260	U		11	340	µg/Kg-dry	1	08/29/13 06:48
Surr: Decachlorobiphenyl	96.1			40-140	%REC	1	08/29/13 06:48
MOISTURE			A2540 G				Analyst: BAS
<u>BatchID: R125677</u>							
Moisture	4.5		0.025	0.050	% of sample	1	08/25/13 14:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-028
Collection Date: 08/19/13 01:22 PM

Work Order: 1308937
Lab ID: 1308937-26
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50844</u>							
Aroclor 1016	U		37	340	µg/Kg-dry	1	08/29/13 07:02
Aroclor 1221	U		37	340	µg/Kg-dry	1	08/29/13 07:02
Aroclor 1232	U		37	340	µg/Kg-dry	1	08/29/13 07:02
Aroclor 1242	U		37	340	µg/Kg-dry	1	08/29/13 07:02
Aroclor 1248	U		37	340	µg/Kg-dry	1	08/29/13 07:02
Aroclor 1254	U		11	340	µg/Kg-dry	1	08/29/13 07:02
Aroclor 1260	U		11	340	µg/Kg-dry	1	08/29/13 07:02
Surr: Decachlorobiphenyl	107			40-140	%REC	1	08/29/13 07:02
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125677</u>							
Moisture	4.0		0.025	0.050	% of sample	1	08/25/13 14:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-029
Collection Date: 08/19/13 01:24 PM

Work Order: 1308937
Lab ID: 1308937-27
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50844</u>							
Aroclor 1016	U		36	330	µg/Kg-dry	1	08/29/13 07:16
Aroclor 1221	U		36	330	µg/Kg-dry	1	08/29/13 07:16
Aroclor 1232	U		36	330	µg/Kg-dry	1	08/29/13 07:16
Aroclor 1242	U		36	330	µg/Kg-dry	1	08/29/13 07:16
Aroclor 1248	U		36	330	µg/Kg-dry	1	08/29/13 07:16
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/29/13 07:16
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/29/13 07:16
Surr: Decachlorobiphenyl	100			40-140	%REC	1	08/29/13 07:16
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125677</u>							
Moisture	3.4		0.025	0.050	% of sample	1	08/25/13 14:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-030
Collection Date: 08/19/13 01:26 PM

Work Order: 1308937
Lab ID: 1308937-28
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50844</u>							
Aroclor 1016	U		36	330	µg/Kg-dry	1	08/29/13 07:29
Aroclor 1221	U		36	330	µg/Kg-dry	1	08/29/13 07:29
Aroclor 1232	U		36	330	µg/Kg-dry	1	08/29/13 07:29
Aroclor 1242	U		36	330	µg/Kg-dry	1	08/29/13 07:29
Aroclor 1248	U		36	330	µg/Kg-dry	1	08/29/13 07:29
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/29/13 07:29
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/29/13 07:29
Surr: Decachlorobiphenyl	96.1			40-140	%REC	1	08/29/13 07:29
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125677</u>							
Moisture	5.7		0.025	0.050	% of sample	1	08/25/13 14:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-031
Collection Date: 08/19/13 01:28 PM

Work Order: 1308937
Lab ID: 1308937-29
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50844</u>							
Aroclor 1016	U		36	330	µg/Kg-dry	1	08/29/13 07:43
Aroclor 1221	U		36	330	µg/Kg-dry	1	08/29/13 07:43
Aroclor 1232	U		36	330	µg/Kg-dry	1	08/29/13 07:43
Aroclor 1242	U		36	330	µg/Kg-dry	1	08/29/13 07:43
Aroclor 1248	U		36	330	µg/Kg-dry	1	08/29/13 07:43
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/29/13 07:43
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/29/13 07:43
Surr: Decachlorobiphenyl	98.1			40-140	%REC	1	08/29/13 07:43
MOISTURE			A2540 G				Analyst: BAS
<u>BatchID: R125677</u>							
Moisture	3.4		0.025	0.050	% of sample	1	08/25/13 14:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-032
Collection Date: 08/19/13 01:30 PM

Work Order: 1308937
Lab ID: 1308937-30
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
BatchID: <u>50844</u>							
Aroclor 1016	U		37	340	µg/Kg-dry	1	08/29/13 07:56
Aroclor 1221	U		37	340	µg/Kg-dry	1	08/29/13 07:56
Aroclor 1232	U		37	340	µg/Kg-dry	1	08/29/13 07:56
Aroclor 1242	U		37	340	µg/Kg-dry	1	08/29/13 07:56
Aroclor 1248	U		37	340	µg/Kg-dry	1	08/29/13 07:56
Aroclor 1254	U		11	340	µg/Kg-dry	1	08/29/13 07:56
Aroclor 1260	U		11	340	µg/Kg-dry	1	08/29/13 07:56
Surr: Decachlorobiphenyl	104			40-140	%REC	1	08/29/13 07:56
MOISTURE			A2540 G				Analyst: BAS
BatchID: <u>R125677</u>							
Moisture	6.1		0.025	0.050	% of sample	1	08/25/13 14:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-033
Collection Date: 08/19/13 01:32 PM

Work Order: 1308937
Lab ID: 1308937-31
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50844</u>							
Aroclor 1016	U		35	320	µg/Kg-dry	1	08/29/13 08:10
Aroclor 1221	U		35	320	µg/Kg-dry	1	08/29/13 08:10
Aroclor 1232	U		35	320	µg/Kg-dry	1	08/29/13 08:10
Aroclor 1242	U		35	320	µg/Kg-dry	1	08/29/13 08:10
Aroclor 1248	U		35	320	µg/Kg-dry	1	08/29/13 08:10
Aroclor 1254	U		11	320	µg/Kg-dry	1	08/29/13 08:10
Aroclor 1260	U		11	320	µg/Kg-dry	1	08/29/13 08:10
Surr: Decachlorobiphenyl	105			40-140	%REC	1	08/29/13 08:10
MOISTURE			A2540 G				Analyst: BAS
<u>BatchID: R125677</u>							
Moisture	4.1		0.025	0.050	% of sample	1	08/25/13 14:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-034
Collection Date: 08/19/13 01:50 PM

Work Order: 1308937
Lab ID: 1308937-32
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50844</u>							
Aroclor 1016	U		35	330	µg/Kg-dry	1	08/29/13 08:37
Aroclor 1221	U		35	330	µg/Kg-dry	1	08/29/13 08:37
Aroclor 1232	U		35	330	µg/Kg-dry	1	08/29/13 08:37
Aroclor 1242	U		35	330	µg/Kg-dry	1	08/29/13 08:37
Aroclor 1248	U		35	330	µg/Kg-dry	1	08/29/13 08:37
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/29/13 08:37
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/29/13 08:37
Surr: Decachlorobiphenyl	99.1			40-140	%REC	1	08/29/13 08:37
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125677</u>							
Moisture	3.3		0.025	0.050	% of sample	1	08/25/13 14:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-035
Collection Date: 08/19/13 01:52 PM

Work Order: 1308937
Lab ID: 1308937-33
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50844</u>							
Aroclor 1016	U		36	330	µg/Kg-dry	1	08/29/13 08:51
Aroclor 1221	U		36	330	µg/Kg-dry	1	08/29/13 08:51
Aroclor 1232	U		36	330	µg/Kg-dry	1	08/29/13 08:51
Aroclor 1242	U		36	330	µg/Kg-dry	1	08/29/13 08:51
Aroclor 1248	U		36	330	µg/Kg-dry	1	08/29/13 08:51
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/29/13 08:51
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/29/13 08:51
Surr: Decachlorobiphenyl	101			40-140	%REC	1	08/29/13 08:51
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125677</u>							
Moisture	4.2		0.025	0.050	% of sample	1	08/25/13 14:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-036
Collection Date: 08/19/13 01:54 PM

Work Order: 1308937
Lab ID: 1308937-34
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50844</u>							
Aroclor 1016	U		36	330	µg/Kg-dry	1	08/29/13 09:04
Aroclor 1221	U		36	330	µg/Kg-dry	1	08/29/13 09:04
Aroclor 1232	U		36	330	µg/Kg-dry	1	08/29/13 09:04
Aroclor 1242	U		36	330	µg/Kg-dry	1	08/29/13 09:04
Aroclor 1248	U		36	330	µg/Kg-dry	1	08/29/13 09:04
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/29/13 09:04
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/29/13 09:04
Surr: Decachlorobiphenyl	108			40-140	%REC	1	08/29/13 09:04
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125677</u>							
Moisture	5.4		0.025	0.050	% of sample	1	08/25/13 14:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-037
Collection Date: 08/19/13 01:56 PM

Work Order: 1308937
Lab ID: 1308937-35
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50844</u>							
Aroclor 1016	U		38	350	µg/Kg-dry	1	08/29/13 09:18
Aroclor 1221	U		38	350	µg/Kg-dry	1	08/29/13 09:18
Aroclor 1232	U		38	350	µg/Kg-dry	1	08/29/13 09:18
Aroclor 1242	U		38	350	µg/Kg-dry	1	08/29/13 09:18
Aroclor 1248	U		38	350	µg/Kg-dry	1	08/29/13 09:18
Aroclor 1254	U		12	350	µg/Kg-dry	1	08/29/13 09:18
Aroclor 1260	U		12	350	µg/Kg-dry	1	08/29/13 09:18
Surr: Decachlorobiphenyl	102			40-140	%REC	1	08/29/13 09:18
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125677</u>							
Moisture	7.0		0.025	0.050	% of sample	1	08/25/13 14:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-038
Collection Date: 08/19/13 01:58 PM

Work Order: 1308937
Lab ID: 1308937-36
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50860</u>							
Aroclor 1016	U		35	330	µg/Kg-dry	1	08/29/13 10:53
Aroclor 1221	U		35	330	µg/Kg-dry	1	08/29/13 10:53
Aroclor 1232	U		35	330	µg/Kg-dry	1	08/29/13 10:53
Aroclor 1242	U		35	330	µg/Kg-dry	1	08/29/13 10:53
Aroclor 1248	U		35	330	µg/Kg-dry	1	08/29/13 10:53
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/29/13 10:53
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/29/13 10:53
Surr: Decachlorobiphenyl	96.1			40-140	%REC	1	08/29/13 10:53
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125677</u>							
Moisture	3.6		0.025	0.050	% of sample	1	08/25/13 14:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-039
Collection Date: 08/19/13 02:00 PM

Work Order: 1308937
Lab ID: 1308937-37
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50860</u>							
Aroclor 1016	U		35	320	µg/Kg-dry	1	08/29/13 11:07
Aroclor 1221	U		35	320	µg/Kg-dry	1	08/29/13 11:07
Aroclor 1232	U		35	320	µg/Kg-dry	1	08/29/13 11:07
Aroclor 1242	U		35	320	µg/Kg-dry	1	08/29/13 11:07
Aroclor 1248	U		35	320	µg/Kg-dry	1	08/29/13 11:07
Aroclor 1254	U		11	320	µg/Kg-dry	1	08/29/13 11:07
Aroclor 1260	U		11	320	µg/Kg-dry	1	08/29/13 11:07
Surr: Decachlorobiphenyl	91.1			40-140	%REC	1	08/29/13 11:07
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125677</u>							
Moisture	2.8		0.025	0.050	% of sample	1	08/25/13 14:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-040
Collection Date: 08/19/13 02:02 PM

Work Order: 1308937
Lab ID: 1308937-38
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50860</u>							
Aroclor 1016	U		35	320	µg/Kg-dry	1	08/29/13 11:21
Aroclor 1221	U		35	320	µg/Kg-dry	1	08/29/13 11:21
Aroclor 1232	U		35	320	µg/Kg-dry	1	08/29/13 11:21
Aroclor 1242	U		35	320	µg/Kg-dry	1	08/29/13 11:21
Aroclor 1248	U		35	320	µg/Kg-dry	1	08/29/13 11:21
Aroclor 1254	U		11	320	µg/Kg-dry	1	08/29/13 11:21
Aroclor 1260	U		11	320	µg/Kg-dry	1	08/29/13 11:21
Surr: Decachlorobiphenyl	92.1			40-140	%REC	1	08/29/13 11:21
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125677</u>							
Moisture	3.8		0.025	0.050	% of sample	1	08/25/13 14:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-041
Collection Date: 08/19/13 02:04 PM

Work Order: 1308937
Lab ID: 1308937-39
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50860</u>							
Aroclor 1016	U		36	330	µg/Kg-dry	1	08/29/13 11:34
Aroclor 1221	U		36	330	µg/Kg-dry	1	08/29/13 11:34
Aroclor 1232	U		36	330	µg/Kg-dry	1	08/29/13 11:34
Aroclor 1242	U		36	330	µg/Kg-dry	1	08/29/13 11:34
Aroclor 1248	U		36	330	µg/Kg-dry	1	08/29/13 11:34
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/29/13 11:34
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/29/13 11:34
Surr: Decachlorobiphenyl	95.1			40-140	%REC	1	08/29/13 11:34
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125677</u>							
Moisture	2.8		0.025	0.050	% of sample	1	08/25/13 14:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-042
Collection Date: 08/19/13 02:25 PM

Work Order: 1308937
Lab ID: 1308937-40
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50860</u>							
Aroclor 1016	U		36	330	µg/Kg-dry	1	08/29/13 11:48
Aroclor 1221	U		36	330	µg/Kg-dry	1	08/29/13 11:48
Aroclor 1232	U		36	330	µg/Kg-dry	1	08/29/13 11:48
Aroclor 1242	U		36	330	µg/Kg-dry	1	08/29/13 11:48
Aroclor 1248	U		36	330	µg/Kg-dry	1	08/29/13 11:48
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/29/13 11:48
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/29/13 11:48
Surr: Decachlorobiphenyl	87.1			40-140	%REC	1	08/29/13 11:48
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125678</u>							
Moisture	5.1		0.025	0.050	% of sample	1	08/25/13 15:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-043
Collection Date: 08/19/13 02:27 PM

Work Order: 1308937
Lab ID: 1308937-41
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50860</u>							
Aroclor 1016	U		36	330	µg/Kg-dry	1	08/29/13 12:01
Aroclor 1221	U		36	330	µg/Kg-dry	1	08/29/13 12:01
Aroclor 1232	U		36	330	µg/Kg-dry	1	08/29/13 12:01
Aroclor 1242	U		36	330	µg/Kg-dry	1	08/29/13 12:01
Aroclor 1248	U		36	330	µg/Kg-dry	1	08/29/13 12:01
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/29/13 12:01
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/29/13 12:01
Surr: Decachlorobiphenyl	88.1			40-140	%REC	1	08/29/13 12:01
MOISTURE			A2540 G				Analyst: BAS
<u>BatchID: R125678</u>							
Moisture	4.4		0.025	0.050	% of sample	1	08/25/13 15:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-045
Collection Date: 08/19/13 02:31 PM

Work Order: 1308937
Lab ID: 1308937-42
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50860</u>							
Aroclor 1016	U		41	380	µg/Kg-dry	1	08/29/13 14:44
Aroclor 1221	U		41	380	µg/Kg-dry	1	08/29/13 14:44
Aroclor 1232	U		41	380	µg/Kg-dry	1	08/29/13 14:44
Aroclor 1242	U		41	380	µg/Kg-dry	1	08/29/13 14:44
Aroclor 1248	U		41	380	µg/Kg-dry	1	08/29/13 14:44
Aroclor 1254	U		13	380	µg/Kg-dry	1	08/29/13 14:44
Aroclor 1260	U		13	380	µg/Kg-dry	1	08/29/13 14:44
Surr: Decachlorobiphenyl	93.1			40-140	%REC	1	08/29/13 14:44
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125678</u>							
Moisture	15		0.025	0.050	% of sample	1	08/25/13 15:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-046
Collection Date: 08/19/13 02:33 PM

Work Order: 1308937
Lab ID: 1308937-43
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50860</u>							
Aroclor 1016	U		39	370	µg/Kg-dry	1	08/29/13 14:57
Aroclor 1221	U		39	370	µg/Kg-dry	1	08/29/13 14:57
Aroclor 1232	U		39	370	µg/Kg-dry	1	08/29/13 14:57
Aroclor 1242	U		39	370	µg/Kg-dry	1	08/29/13 14:57
Aroclor 1248	U		39	370	µg/Kg-dry	1	08/29/13 14:57
Aroclor 1254	U		12	370	µg/Kg-dry	1	08/29/13 14:57
Aroclor 1260	U		12	370	µg/Kg-dry	1	08/29/13 14:57
Surr: Decachlorobiphenyl	90.1			40-140	%REC	1	08/29/13 14:57
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125678</u>							
Moisture	10		0.025	0.050	% of sample	1	08/25/13 15:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-047
Collection Date: 08/19/13 02:35 PM

Work Order: 1308937
Lab ID: 1308937-44
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50860</u>							
Aroclor 1016	U		47	430	µg/Kg-dry	1	08/29/13 15:11
Aroclor 1221	U		47	430	µg/Kg-dry	1	08/29/13 15:11
Aroclor 1232	U		47	430	µg/Kg-dry	1	08/29/13 15:11
Aroclor 1242	U		47	430	µg/Kg-dry	1	08/29/13 15:11
Aroclor 1248	U		47	430	µg/Kg-dry	1	08/29/13 15:11
Aroclor 1254	U		15	430	µg/Kg-dry	1	08/29/13 15:11
Aroclor 1260	U		15	430	µg/Kg-dry	1	08/29/13 15:11
Surr: Decachlorobiphenyl	86.1			40-140	%REC	1	08/29/13 15:11
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125678</u>							
Moisture	25		0.025	0.050	% of sample	1	08/25/13 15:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-048
Collection Date: 08/19/13 02:37 PM

Work Order: 1308937
Lab ID: 1308937-45
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50860</u>							
Aroclor 1016	U		37	350	µg/Kg-dry	1	08/29/13 15:51
Aroclor 1221	U		37	350	µg/Kg-dry	1	08/29/13 15:51
Aroclor 1232	U		37	350	µg/Kg-dry	1	08/29/13 15:51
Aroclor 1242	U		37	350	µg/Kg-dry	1	08/29/13 15:51
Aroclor 1248	U		37	350	µg/Kg-dry	1	08/29/13 15:51
Aroclor 1254	U		12	350	µg/Kg-dry	1	08/29/13 15:51
Aroclor 1260	U		12	350	µg/Kg-dry	1	08/29/13 15:51
Surr: Decachlorobiphenyl	99.1			40-140	%REC	1	08/29/13 15:51
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125678</u>							
Moisture	5.0		0.025	0.050	% of sample	1	08/25/13 15:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-049
Collection Date: 08/19/13 02:39 PM

Work Order: 1308937
Lab ID: 1308937-46
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50860</u>							
Aroclor 1016	U		37	340	µg/Kg-dry	1	08/29/13 16:05
Aroclor 1221	U		37	340	µg/Kg-dry	1	08/29/13 16:05
Aroclor 1232	U		37	340	µg/Kg-dry	1	08/29/13 16:05
Aroclor 1242	U		37	340	µg/Kg-dry	1	08/29/13 16:05
Aroclor 1248	U		37	340	µg/Kg-dry	1	08/29/13 16:05
Aroclor 1254	U		12	340	µg/Kg-dry	1	08/29/13 16:05
Aroclor 1260	U		12	340	µg/Kg-dry	1	08/29/13 16:05
Surr: Decachlorobiphenyl	83.1			40-140	%REC	1	08/29/13 16:05
MOISTURE			A2540 G				Analyst: BAS
<u>BatchID: R125678</u>							
Moisture	5.6		0.025	0.050	% of sample	1	08/25/13 15:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-050
Collection Date: 08/19/13 02:41 PM

Work Order: 1308937
Lab ID: 1308937-47
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50860</u>							
Aroclor 1016	U		35	330	µg/Kg-dry	1	08/29/13 16:18
Aroclor 1221	U		35	330	µg/Kg-dry	1	08/29/13 16:18
Aroclor 1232	U		35	330	µg/Kg-dry	1	08/29/13 16:18
Aroclor 1242	U		35	330	µg/Kg-dry	1	08/29/13 16:18
Aroclor 1248	U		35	330	µg/Kg-dry	1	08/29/13 16:18
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/29/13 16:18
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/29/13 16:18
Surr: Decachlorobiphenyl	83.1			40-140	%REC	1	08/29/13 16:18
MOISTURE			A2540 G				Analyst: BAS
<u>BatchID: R125678</u>							
Moisture	4.1		0.025	0.050	% of sample	1	08/25/13 15:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-051
Collection Date: 08/19/13 02:43 PM

Work Order: 1308937
Lab ID: 1308937-48
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50860</u>							
Aroclor 1016	U		35	330	µg/Kg-dry	1	08/29/13 16:32
Aroclor 1221	U		35	330	µg/Kg-dry	1	08/29/13 16:32
Aroclor 1232	U		35	330	µg/Kg-dry	1	08/29/13 16:32
Aroclor 1242	U		35	330	µg/Kg-dry	1	08/29/13 16:32
Aroclor 1248	U		35	330	µg/Kg-dry	1	08/29/13 16:32
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/29/13 16:32
Aroclor 1260	62	J	11	330	µg/Kg-dry	1	08/29/13 16:32
Surr: Decachlorobiphenyl	89.1			40-140	%REC	1	08/29/13 16:32
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125678</u>							
Moisture	2.0		0.025	0.050	% of sample	1	08/25/13 15:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-052
Collection Date: 08/19/13 02:45 PM

Work Order: 1308937
Lab ID: 1308937-49
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50860</u>							
Aroclor 1016	U		34	320	µg/Kg-dry	1	08/29/13 16:45
Aroclor 1221	U		34	320	µg/Kg-dry	1	08/29/13 16:45
Aroclor 1232	U		34	320	µg/Kg-dry	1	08/29/13 16:45
Aroclor 1242	U		34	320	µg/Kg-dry	1	08/29/13 16:45
Aroclor 1248	U		34	320	µg/Kg-dry	1	08/29/13 16:45
Aroclor 1254	U		11	320	µg/Kg-dry	1	08/29/13 16:45
Aroclor 1260	U		11	320	µg/Kg-dry	1	08/29/13 16:45
Surr: Decachlorobiphenyl	91.1			40-140	%REC	1	08/29/13 16:45
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125678</u>							
Moisture	1.5		0.025	0.050	% of sample	1	08/25/13 15:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-053
Collection Date: 08/19/13 02:47 PM

Work Order: 1308937
Lab ID: 1308937-50
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50860</u>							
Aroclor 1016	U		36	330	µg/Kg-dry	1	08/29/13 16:59
Aroclor 1221	U		36	330	µg/Kg-dry	1	08/29/13 16:59
Aroclor 1232	U		36	330	µg/Kg-dry	1	08/29/13 16:59
Aroclor 1242	U		36	330	µg/Kg-dry	1	08/29/13 16:59
Aroclor 1248	U		36	330	µg/Kg-dry	1	08/29/13 16:59
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/29/13 16:59
Aroclor 1260	38	J	11	330	µg/Kg-dry	1	08/29/13 16:59
Surr: Decachlorobiphenyl	84.1			40-140	%REC	1	08/29/13 16:59
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125678</u>							
Moisture	1.9		0.025	0.050	% of sample	1	08/25/13 15:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-054
Collection Date: 08/19/13 02:49 PM

Work Order: 1308937
Lab ID: 1308937-51
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50860</u>							
Aroclor 1016	U		35	320	µg/Kg-dry	1	08/29/13 17:12
Aroclor 1221	U		35	320	µg/Kg-dry	1	08/29/13 17:12
Aroclor 1232	U		35	320	µg/Kg-dry	1	08/29/13 17:12
Aroclor 1242	U		35	320	µg/Kg-dry	1	08/29/13 17:12
Aroclor 1248	U		35	320	µg/Kg-dry	1	08/29/13 17:12
Aroclor 1254	U		11	320	µg/Kg-dry	1	08/29/13 17:12
Aroclor 1260	U		11	320	µg/Kg-dry	1	08/29/13 17:12
Surr: Decachlorobiphenyl	87.1			40-140	%REC	1	08/29/13 17:12
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125678</u>							
Moisture	2.8		0.025	0.050	% of sample	1	08/25/13 15:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-055
Collection Date: 08/19/13 02:51 PM

Work Order: 1308937
Lab ID: 1308937-52
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50860</u>							
Aroclor 1016	U		35	330	µg/Kg-dry	1	08/29/13 17:26
Aroclor 1221	U		35	330	µg/Kg-dry	1	08/29/13 17:26
Aroclor 1232	U		35	330	µg/Kg-dry	1	08/29/13 17:26
Aroclor 1242	U		35	330	µg/Kg-dry	1	08/29/13 17:26
Aroclor 1248	U		35	330	µg/Kg-dry	1	08/29/13 17:26
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/29/13 17:26
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/29/13 17:26
Surr: Decachlorobiphenyl	97.1			40-140	%REC	1	08/29/13 17:26
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125678</u>							
Moisture	3.7		0.025	0.050	% of sample	1	08/25/13 15:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-056
Collection Date: 08/19/13 02:53 PM

Work Order: 1308937
Lab ID: 1308937-53
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50860</u>							
Aroclor 1016	U		35	330	µg/Kg-dry	1	08/29/13 17:39
Aroclor 1221	U		35	330	µg/Kg-dry	1	08/29/13 17:39
Aroclor 1232	U		35	330	µg/Kg-dry	1	08/29/13 17:39
Aroclor 1242	U		35	330	µg/Kg-dry	1	08/29/13 17:39
Aroclor 1248	U		35	330	µg/Kg-dry	1	08/29/13 17:39
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/29/13 17:39
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/29/13 17:39
Surr: Decachlorobiphenyl	93.1			40-140	%REC	1	08/29/13 17:39
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125678</u>							
Moisture	4.5		0.025	0.050	% of sample	1	08/25/13 15:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-057
Collection Date: 08/19/13 02:55 PM

Work Order: 1308937
Lab ID: 1308937-54
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50860</u>							
Aroclor 1016	U		38	350	µg/Kg-dry	1	08/29/13 17:53
Aroclor 1221	U		38	350	µg/Kg-dry	1	08/29/13 17:53
Aroclor 1232	U		38	350	µg/Kg-dry	1	08/29/13 17:53
Aroclor 1242	U		38	350	µg/Kg-dry	1	08/29/13 17:53
Aroclor 1248	U		38	350	µg/Kg-dry	1	08/29/13 17:53
Aroclor 1254	U		12	350	µg/Kg-dry	1	08/29/13 17:53
Aroclor 1260	U		12	350	µg/Kg-dry	1	08/29/13 17:53
Surr: Decachlorobiphenyl	93.1			40-140	%REC	1	08/29/13 17:53
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125678</u>							
Moisture	11		0.025	0.050	% of sample	1	08/25/13 15:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-058
Collection Date: 08/19/13 03:10 PM

Work Order: 1308937
Lab ID: 1308937-55
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/27/13		Analyst: JD
<u>BatchID: 50860</u>							
Aroclor 1016	U		36	330	µg/Kg-dry	1	08/29/13 18:34
Aroclor 1221	U		36	330	µg/Kg-dry	1	08/29/13 18:34
Aroclor 1232	U		36	330	µg/Kg-dry	1	08/29/13 18:34
Aroclor 1242	U		36	330	µg/Kg-dry	1	08/29/13 18:34
Aroclor 1248	U		36	330	µg/Kg-dry	1	08/29/13 18:34
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/29/13 18:34
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/29/13 18:34
Surr: Decachlorobiphenyl	99.1			40-140	%REC	1	08/29/13 18:34
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125678</u>							
Moisture	1.4		0.025	0.050	% of sample	1	08/25/13 15:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-059
Collection Date: 08/19/13 03:12 PM

Work Order: 1308937
Lab ID: 1308937-56
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/28/13		Analyst: JD
<u>BatchID: 50887</u>							
Aroclor 1016	U		36	330	µg/Kg-dry	1	08/29/13 18:47
Aroclor 1221	U		36	330	µg/Kg-dry	1	08/29/13 18:47
Aroclor 1232	U		36	330	µg/Kg-dry	1	08/29/13 18:47
Aroclor 1242	U		36	330	µg/Kg-dry	1	08/29/13 18:47
Aroclor 1248	U		36	330	µg/Kg-dry	1	08/29/13 18:47
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/29/13 18:47
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/29/13 18:47
Surr: Decachlorobiphenyl	100			40-140	%REC	1	08/29/13 18:47
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125678</u>							
Moisture	1.4		0.025	0.050	% of sample	1	08/25/13 15:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-060
Collection Date: 08/19/13 03:14 PM

Work Order: 1308937
Lab ID: 1308937-57
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep: SW3541 / 8/28/13		Analyst: JD
BatchID: <u>50887</u>							
Aroclor 1016	U		36	340	µg/Kg-dry	1	08/29/13 19:01
Aroclor 1221	U		36	340	µg/Kg-dry	1	08/29/13 19:01
Aroclor 1232	U		36	340	µg/Kg-dry	1	08/29/13 19:01
Aroclor 1242	U		36	340	µg/Kg-dry	1	08/29/13 19:01
Aroclor 1248	U		36	340	µg/Kg-dry	1	08/29/13 19:01
Aroclor 1254	U		11	340	µg/Kg-dry	1	08/29/13 19:01
Aroclor 1260	U		11	340	µg/Kg-dry	1	08/29/13 19:01
Surr: Decachlorobiphenyl	98.1			40-140	%REC	1	08/29/13 19:01
MOISTURE			A2540 G				Analyst: BAS
BatchID: <u>R125678</u>							
Moisture	6.2		0.025	0.050	% of sample	1	08/25/13 15:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-061
Collection Date: 08/19/13 03:16 PM

Work Order: 1308937
Lab ID: 1308937-58
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/28/13		Analyst: JD
<u>BatchID: 50887</u>							
Aroclor 1016	U		36	330	µg/Kg-dry	1	08/29/13 19:14
Aroclor 1221	U		36	330	µg/Kg-dry	1	08/29/13 19:14
Aroclor 1232	U		36	330	µg/Kg-dry	1	08/29/13 19:14
Aroclor 1242	U		36	330	µg/Kg-dry	1	08/29/13 19:14
Aroclor 1248	U		36	330	µg/Kg-dry	1	08/29/13 19:14
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/29/13 19:14
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/29/13 19:14
Surr: Decachlorobiphenyl	97.1			40-140	%REC	1	08/29/13 19:14
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125678</u>							
Moisture	1.8		0.025	0.050	% of sample	1	08/25/13 15:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-062
Collection Date: 08/19/13 03:18 PM

Work Order: 1308937
Lab ID: 1308937-59
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/28/13		Analyst: JD
<u>BatchID: 50887</u>							
Aroclor 1016	U		35	330	µg/Kg-dry	1	08/29/13 14:03
Aroclor 1221	U		35	330	µg/Kg-dry	1	08/29/13 14:03
Aroclor 1232	U		35	330	µg/Kg-dry	1	08/29/13 14:03
Aroclor 1242	U		35	330	µg/Kg-dry	1	08/29/13 14:03
Aroclor 1248	U		35	330	µg/Kg-dry	1	08/29/13 14:03
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/29/13 14:03
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/29/13 14:03
Surr: Decachlorobiphenyl	90.1			40-140	%REC	1	08/29/13 14:03
MOISTURE							
			A2540 G				Analyst: BAS
<u>BatchID: R125678</u>							
Moisture	2.1		0.025	0.050	% of sample	1	08/25/13 15:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-064
Collection Date: 08/19/13 03:22 PM

Work Order: 1308937
Lab ID: 1308937-60
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/28/13		Analyst: JD
<u>BatchID: 50887</u>							
Aroclor 1016	U		35	320	µg/Kg-dry	1	08/29/13 19:28
Aroclor 1221	U		35	320	µg/Kg-dry	1	08/29/13 19:28
Aroclor 1232	U		35	320	µg/Kg-dry	1	08/29/13 19:28
Aroclor 1242	U		35	320	µg/Kg-dry	1	08/29/13 19:28
Aroclor 1248	U		35	320	µg/Kg-dry	1	08/29/13 19:28
Aroclor 1254	U		11	320	µg/Kg-dry	1	08/29/13 19:28
Aroclor 1260	U		11	320	µg/Kg-dry	1	08/29/13 19:28
Surr: Decachlorobiphenyl	96.1			40-140	%REC	1	08/29/13 19:28
MOISTURE							
			A2540 G				Analyst: RLF
<u>BatchID: R125752</u>							
Moisture	3.4		0.025	0.050	% of sample	1	08/26/13 19:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-065
Collection Date: 08/19/13 03:24 PM

Work Order: 1308937
Lab ID: 1308937-61
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/28/13		Analyst: JD
<u>BatchID: 50887</u>							
Aroclor 1016	U		35	330	µg/Kg-dry	1	08/29/13 19:41
Aroclor 1221	U		35	330	µg/Kg-dry	1	08/29/13 19:41
Aroclor 1232	U		35	330	µg/Kg-dry	1	08/29/13 19:41
Aroclor 1242	U		35	330	µg/Kg-dry	1	08/29/13 19:41
Aroclor 1248	U		35	330	µg/Kg-dry	1	08/29/13 19:41
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/29/13 19:41
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/29/13 19:41
Surr: Decachlorobiphenyl	101			40-140	%REC	1	08/29/13 19:41
MOISTURE							
			A2540 G				Analyst: RLF
<u>BatchID: R125752</u>							
Moisture	2.5		0.025	0.050	% of sample	1	08/26/13 19:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-081913-MR-066
Collection Date: 08/19/13 03:26 PM

Work Order: 1308937
Lab ID: 1308937-62
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/28/13		Analyst: JD
<u>BatchID: 50887</u>							
Aroclor 1016	U		36	330	µg/Kg-dry	1	08/29/13 19:55
Aroclor 1221	U		36	330	µg/Kg-dry	1	08/29/13 19:55
Aroclor 1232	U		36	330	µg/Kg-dry	1	08/29/13 19:55
Aroclor 1242	U		36	330	µg/Kg-dry	1	08/29/13 19:55
Aroclor 1248	U		36	330	µg/Kg-dry	1	08/29/13 19:55
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/29/13 19:55
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/29/13 19:55
Surr: Decachlorobiphenyl	100			40-140	%REC	1	08/29/13 19:55
MOISTURE							
			A2540 G				Analyst: RLF
<u>BatchID: R125752</u>							
Moisture	3.2		0.025	0.050	% of sample	1	08/26/13 19:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-082113-MR-113
Collection Date: 08/21/13 09:15 AM

Work Order: 1308937
Lab ID: 1308937-63
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep: SW3541 / 8/27/13		Analyst: RM
<u>BatchID: 50858</u>							
1,1'-Biphenyl	U		9.5	630	µg/Kg-dry	1	08/28/13 15:37
2,4,5-Trichlorophenol	U		15	310	µg/Kg-dry	1	08/28/13 15:37
2,4,6-Trichlorophenol	U		15	310	µg/Kg-dry	1	08/28/13 15:37
2,4-Dichlorophenol	U		19	310	µg/Kg-dry	1	08/28/13 15:37
2,4-Dimethylphenol	U		78	630	µg/Kg-dry	1	08/28/13 15:37
2,4-Dinitrophenol	U		82	1,300	µg/Kg-dry	1	08/28/13 15:37
2,4-Dinitrotoluene	U		17	310	µg/Kg-dry	1	08/28/13 15:37
2,6-Dinitrotoluene	U		18	310	µg/Kg-dry	1	08/28/13 15:37
2-Chloronaphthalene	U		18	150	µg/Kg-dry	1	08/28/13 15:37
2-Chlorophenol	U		17	310	µg/Kg-dry	1	08/28/13 15:37
2-Methylnaphthalene	U		19	150	µg/Kg-dry	1	08/28/13 15:37
2-Methylphenol	U		19	310	µg/Kg-dry	1	08/28/13 15:37
2-Nitroaniline	U		15	1,300	µg/Kg-dry	1	08/28/13 15:37
2-Nitrophenol	U		17	310	µg/Kg-dry	1	08/28/13 15:37
3,3'-Dichlorobenzidine	U		18	1,300	µg/Kg-dry	1	08/28/13 15:37
3-Nitroaniline	U		160	1,300	µg/Kg-dry	1	08/28/13 15:37
4,6-Dinitro-2-methylphenol	U		93	630	µg/Kg-dry	1	08/28/13 15:37
4-Bromophenyl phenyl ether	U		17	310	µg/Kg-dry	1	08/28/13 15:37
4-Chloro-3-methylphenol	U		17	310	µg/Kg-dry	1	08/28/13 15:37
4-Chloroaniline	U		25	1,300	µg/Kg-dry	1	08/28/13 15:37
4-Chlorophenyl phenyl ether	U		18	310	µg/Kg-dry	1	08/28/13 15:37
4-Methylphenol	U		19	310	µg/Kg-dry	1	08/28/13 15:37
4-Nitroaniline	U		28	1,300	µg/Kg-dry	1	08/28/13 15:37
4-Nitrophenol	U		78	1,300	µg/Kg-dry	1	08/28/13 15:37
Acenaphthene	U		18	58	µg/Kg-dry	1	08/28/13 15:37
Acenaphthylene	U		18	58	µg/Kg-dry	1	08/28/13 15:37
Acetophenone	U		9.6	630	µg/Kg-dry	1	08/28/13 15:37
Anthracene	U		20	58	µg/Kg-dry	1	08/28/13 15:37
Atrazine	U		19	630	µg/Kg-dry	1	08/28/13 15:37
Benzaldehyde	U		24	630	µg/Kg-dry	1	08/28/13 15:37
Benzo(a)anthracene	U		23	58	µg/Kg-dry	1	08/28/13 15:37
Benzo(a)pyrene	U		30	58	µg/Kg-dry	1	08/28/13 15:37
Benzo(b)fluoranthene	U		31	58	µg/Kg-dry	1	08/28/13 15:37
Benzo(g,h,i)perylene	U		45	58	µg/Kg-dry	1	08/28/13 15:37
Benzo(k)fluoranthene	U		26	58	µg/Kg-dry	1	08/28/13 15:37
Bis(2-chloroethoxy)methane	U		16	310	µg/Kg-dry	1	08/28/13 15:37
Bis(2-chloroethyl)ether	U		16	310	µg/Kg-dry	1	08/28/13 15:37

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-082113-MR-113
Collection Date: 08/21/13 09:15 AM

Work Order: 1308937
Lab ID: 1308937-63
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bis(2-chloroisopropyl)ether	U		15	310	µg/Kg-dry	1	08/28/13 15:37
Bis(2-ethylhexyl)phthalate	U		19	630	µg/Kg-dry	1	08/28/13 15:37
Butyl benzyl phthalate	U		27	310	µg/Kg-dry	1	08/28/13 15:37
Caprolactam	U		28	630	µg/Kg-dry	1	08/28/13 15:37
Carbazole	U		22	310	µg/Kg-dry	1	08/28/13 15:37
Chrysene	U		22	58	µg/Kg-dry	1	08/28/13 15:37
Dibenzo(a,h)anthracene	U		33	58	µg/Kg-dry	1	08/28/13 15:37
Dibenzofuran	U		18	310	µg/Kg-dry	1	08/28/13 15:37
Diethyl phthalate	U		16	630	µg/Kg-dry	1	08/28/13 15:37
Dimethyl phthalate	U		16	630	µg/Kg-dry	1	08/28/13 15:37
Di-n-butyl phthalate	U		19	630	µg/Kg-dry	1	08/28/13 15:37
Di-n-octyl phthalate	U		24	310	µg/Kg-dry	1	08/28/13 15:37
Fluoranthene	100		23	58	µg/Kg-dry	1	08/28/13 15:37
Fluorene	U		17	58	µg/Kg-dry	1	08/28/13 15:37
Hexachlorobenzene	U		17	310	µg/Kg-dry	1	08/28/13 15:37
Hexachlorobutadiene	U		16	310	µg/Kg-dry	1	08/28/13 15:37
Hexachlorocyclopentadiene	U		67	630	µg/Kg-dry	1	08/28/13 15:37
Hexachloroethane	U		17	310	µg/Kg-dry	1	08/28/13 15:37
Indeno(1,2,3-cd)pyrene	U		36	58	µg/Kg-dry	1	08/28/13 15:37
Isophorone	U		17	310	µg/Kg-dry	1	08/28/13 15:37
Naphthalene	U		16	58	µg/Kg-dry	1	08/28/13 15:37
Nitrobenzene	55	J	17	310	µg/Kg-dry	1	08/28/13 15:37
N-Nitrosodi-n-propylamine	U		17	310	µg/Kg-dry	1	08/28/13 15:37
N-Nitrosodiphenylamine	U		110	310	µg/Kg-dry	1	08/28/13 15:37
Pentachlorophenol	U		28	630	µg/Kg-dry	1	08/28/13 15:37
Phenanthrene	U		58	58	µg/Kg-dry	1	08/28/13 15:37
Phenol	U		16	310	µg/Kg-dry	1	08/28/13 15:37
Pyrene	47	J	24	58	µg/Kg-dry	1	08/28/13 15:37
Surr: 2,4,6-Tribromophenol	33.8	S		34-140	%REC	1	08/28/13 15:37
Surr: 2-Fluorobiphenyl	79.0			12-100	%REC	1	08/28/13 15:37
Surr: 2-Fluorophenol	39.6			33-117	%REC	1	08/28/13 15:37
Surr: 4-Terphenyl-d14	120			25-137	%REC	1	08/28/13 15:37
Surr: Nitrobenzene-d5	70.5			37-107	%REC	1	08/28/13 15:37
Surr: Phenol-d6	48.2			40-106	%REC	1	08/28/13 15:37
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/27/13		Analyst: RS
BatchID: 50856							
1,1,1-Trichloroethane	U		28	73	µg/Kg-dry	1	08/28/13 05:48
1,1,2,2-Tetrachloroethane	U		32	73	µg/Kg-dry	1	08/28/13 05:48
1,1,2-Trichloroethane	U		26	73	µg/Kg-dry	1	08/28/13 05:48

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-082113-MR-113
Collection Date: 08/21/13 09:15 AM

Work Order: 1308937
Lab ID: 1308937-63
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichlorotrifluoroethane	U		27	73	µg/Kg-dry	1	08/28/13 05:48
1,1-Dichloroethane	U		27	73	µg/Kg-dry	1	08/28/13 05:48
1,1-Dichloroethene	U		30	73	µg/Kg-dry	1	08/28/13 05:48
1,2,4-Trichlorobenzene	U		37	73	µg/Kg-dry	1	08/28/13 05:48
1,2-Dibromo-3-chloropropane	U		35	73	µg/Kg-dry	1	08/28/13 05:48
1,2-Dibromoethane	U		29	73	µg/Kg-dry	1	08/28/13 05:48
1,2-Dichlorobenzene	U		29	73	µg/Kg-dry	1	08/28/13 05:48
1,2-Dichloroethane	U		34	73	µg/Kg-dry	1	08/28/13 05:48
1,2-Dichloropropane	U		24	73	µg/Kg-dry	1	08/28/13 05:48
1,3-Dichlorobenzene	U		29	73	µg/Kg-dry	1	08/28/13 05:48
1,4-Dichlorobenzene	U		28	73	µg/Kg-dry	1	08/28/13 05:48
2-Butanone	U		180	480	µg/Kg-dry	1	08/28/13 05:48
2-Hexanone	U		18	73	µg/Kg-dry	1	08/28/13 05:48
4-Methyl-2-pentanone	U		25	73	µg/Kg-dry	1	08/28/13 05:48
Acetone	U		150	240	µg/Kg-dry	1	08/28/13 05:48
Benzene	U		29	73	µg/Kg-dry	1	08/28/13 05:48
Bromodichloromethane	U		16	73	µg/Kg-dry	1	08/28/13 05:48
Bromoform	U		14	73	µg/Kg-dry	1	08/28/13 05:48
Bromomethane	U		28	180	µg/Kg-dry	1	08/28/13 05:48
Carbon disulfide	U		36	73	µg/Kg-dry	1	08/28/13 05:48
Carbon tetrachloride	U		21	73	µg/Kg-dry	1	08/28/13 05:48
Chlorobenzene	U		30	73	µg/Kg-dry	1	08/28/13 05:48
Chloroethane	U		150	240	µg/Kg-dry	1	08/28/13 05:48
Chloroform	U		30	73	µg/Kg-dry	1	08/28/13 05:48
Chloromethane	U		40	240	µg/Kg-dry	1	08/28/13 05:48
cis-1,2-Dichloroethene	U		29	73	µg/Kg-dry	1	08/28/13 05:48
cis-1,3-Dichloropropene	U		25	73	µg/Kg-dry	1	08/28/13 05:48
Cyclohexane	U		33	73	µg/Kg-dry	1	08/28/13 05:48
Dibromochloromethane	U		13	73	µg/Kg-dry	1	08/28/13 05:48
Dichlorodifluoromethane	U		33	73	µg/Kg-dry	1	08/28/13 05:48
Ethylbenzene	U		27	73	µg/Kg-dry	1	08/28/13 05:48
Isopropylbenzene	U		31	73	µg/Kg-dry	1	08/28/13 05:48
Methyl acetate	U		97	480	µg/Kg-dry	1	08/28/13 05:48
Methyl tert-butyl ether	U		31	73	µg/Kg-dry	1	08/28/13 05:48
Methylcyclohexane	U		34	73	µg/Kg-dry	1	08/28/13 05:48
Methylene chloride	U		28	73	µg/Kg-dry	1	08/28/13 05:48
Styrene	U		27	73	µg/Kg-dry	1	08/28/13 05:48
Tetrachloroethene	U		32	73	µg/Kg-dry	1	08/28/13 05:48
Toluene	U		27	73	µg/Kg-dry	1	08/28/13 05:48
trans-1,2-Dichloroethene	U		22	73	µg/Kg-dry	1	08/28/13 05:48

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-082113-MR-113
Collection Date: 08/21/13 09:15 AM

Work Order: 1308937
Lab ID: 1308937-63
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		24	73	µg/Kg-dry	1	08/28/13 05:48
Trichloroethene	U		34	73	µg/Kg-dry	1	08/28/13 05:48
Trichlorofluoromethane	U		20	73	µg/Kg-dry	1	08/28/13 05:48
Vinyl chloride	U		33	73	µg/Kg-dry	1	08/28/13 05:48
Xylenes, Total	U		86	220	µg/Kg-dry	1	08/28/13 05:48
Surr: 1,2-Dichloroethane-d4	104			70-130	%REC	1	08/28/13 05:48
Surr: 4-Bromofluorobenzene	101			70-130	%REC	1	08/28/13 05:48
Surr: Dibromofluoromethane	102			70-130	%REC	1	08/28/13 05:48
Surr: Toluene-d8	102			70-130	%REC	1	08/28/13 05:48
MOISTURE			A2540 G				Analyst: EE
BatchID: R125773							
Moisture	49		0.025	0.050	% of sample	1	08/27/13 09:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-082113-MR-114
Collection Date: 08/21/13 09:25 AM

Work Order: 1308937
Lab ID: 1308937-64
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep: SW3541 / 8/27/13	Analyst: RM	
<u>BatchID: 50858</u>							
1,1'-Biphenyl	U		5.6	370	µg/Kg-dry	1	08/28/13 12:22
2,4,5-Trichlorophenol	U		9.0	180	µg/Kg-dry	1	08/28/13 12:22
2,4,6-Trichlorophenol	U		8.9	180	µg/Kg-dry	1	08/28/13 12:22
2,4-Dichlorophenol	U		11	180	µg/Kg-dry	1	08/28/13 12:22
2,4-Dimethylphenol	U		46	370	µg/Kg-dry	1	08/28/13 12:22
2,4-Dinitrophenol	U		48	740	µg/Kg-dry	1	08/28/13 12:22
2,4-Dinitrotoluene	U		10	180	µg/Kg-dry	1	08/28/13 12:22
2,6-Dinitrotoluene	U		11	180	µg/Kg-dry	1	08/28/13 12:22
2-Chloronaphthalene	U		10	90	µg/Kg-dry	1	08/28/13 12:22
2-Chlorophenol	U		10	180	µg/Kg-dry	1	08/28/13 12:22
2-Methylnaphthalene	51	J	11	90	µg/Kg-dry	1	08/28/13 12:22
2-Methylphenol	U		11	180	µg/Kg-dry	1	08/28/13 12:22
2-Nitroaniline	U		8.5	740	µg/Kg-dry	1	08/28/13 12:22
2-Nitrophenol	U		9.8	180	µg/Kg-dry	1	08/28/13 12:22
3,3'-Dichlorobenzidine	U		10	740	µg/Kg-dry	1	08/28/13 12:22
3-Nitroaniline	U		91	740	µg/Kg-dry	1	08/28/13 12:22
4,6-Dinitro-2-methylphenol	U		54	370	µg/Kg-dry	1	08/28/13 12:22
4-Bromophenyl phenyl ether	U		9.8	180	µg/Kg-dry	1	08/28/13 12:22
4-Chloro-3-methylphenol	U		10	180	µg/Kg-dry	1	08/28/13 12:22
4-Chloroaniline	U		14	740	µg/Kg-dry	1	08/28/13 12:22
4-Chlorophenyl phenyl ether	U		10	180	µg/Kg-dry	1	08/28/13 12:22
4-Methylphenol	U		11	180	µg/Kg-dry	1	08/28/13 12:22
4-Nitroaniline	U		17	740	µg/Kg-dry	1	08/28/13 12:22
4-Nitrophenol	U		45	740	µg/Kg-dry	1	08/28/13 12:22
Acenaphthene	52		10	34	µg/Kg-dry	1	08/28/13 12:22
Acenaphthylene	120		11	34	µg/Kg-dry	1	08/28/13 12:22
Acetophenone	U		5.6	370	µg/Kg-dry	1	08/28/13 12:22
Anthracene	160		11	34	µg/Kg-dry	1	08/28/13 12:22
Atrazine	U		11	370	µg/Kg-dry	1	08/28/13 12:22
Benzaldehyde	U		14	370	µg/Kg-dry	1	08/28/13 12:22
Benzo(a)anthracene	820		14	34	µg/Kg-dry	1	08/28/13 12:22
Benzo(a)pyrene	670		17	34	µg/Kg-dry	1	08/28/13 12:22
Benzo(b)fluoranthene	850		18	34	µg/Kg-dry	1	08/28/13 12:22
Benzo(g,h,i)perylene	370		26	34	µg/Kg-dry	1	08/28/13 12:22
Benzo(k)fluoranthene	300		15	34	µg/Kg-dry	1	08/28/13 12:22
Bis(2-chloroethoxy)methane	U		9.2	180	µg/Kg-dry	1	08/28/13 12:22
Bis(2-chloroethyl)ether	U		9.4	180	µg/Kg-dry	1	08/28/13 12:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-082113-MR-114
Collection Date: 08/21/13 09:25 AM

Work Order: 1308937
Lab ID: 1308937-64
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bis(2-chloroisopropyl)ether	U		8.8	180	µg/Kg-dry	1	08/28/13 12:22
Bis(2-ethylhexyl)phthalate	U		11	370	µg/Kg-dry	1	08/28/13 12:22
Butyl benzyl phthalate	U		16	180	µg/Kg-dry	1	08/28/13 12:22
Caprolactam	U		16	370	µg/Kg-dry	1	08/28/13 12:22
Carbazole	55	J	13	180	µg/Kg-dry	1	08/28/13 12:22
Chrysene	620		13	34	µg/Kg-dry	1	08/28/13 12:22
Dibenzo(a,h)anthracene	150		19	34	µg/Kg-dry	1	08/28/13 12:22
Dibenzofuran	U		10	180	µg/Kg-dry	1	08/28/13 12:22
Diethyl phthalate	U		9.3	370	µg/Kg-dry	1	08/28/13 12:22
Dimethyl phthalate	U		9.4	370	µg/Kg-dry	1	08/28/13 12:22
Di-n-butyl phthalate	68	J	11	370	µg/Kg-dry	1	08/28/13 12:22
Di-n-octyl phthalate	U		14	180	µg/Kg-dry	1	08/28/13 12:22
Fluoranthene	1,100		13	34	µg/Kg-dry	1	08/28/13 12:22
Fluorene	32	J	9.8	34	µg/Kg-dry	1	08/28/13 12:22
Hexachlorobenzene	U		10	180	µg/Kg-dry	1	08/28/13 12:22
Hexachlorobutadiene	U		9.5	180	µg/Kg-dry	1	08/28/13 12:22
Hexachlorocyclopentadiene	U		39	370	µg/Kg-dry	1	08/28/13 12:22
Hexachloroethane	U		9.8	180	µg/Kg-dry	1	08/28/13 12:22
Indeno(1,2,3-cd)pyrene	510		21	34	µg/Kg-dry	1	08/28/13 12:22
Isophorone	U		9.7	180	µg/Kg-dry	1	08/28/13 12:22
Naphthalene	65		9.6	34	µg/Kg-dry	1	08/28/13 12:22
Nitrobenzene	U		9.7	180	µg/Kg-dry	1	08/28/13 12:22
N-Nitrosodi-n-propylamine	U		9.8	180	µg/Kg-dry	1	08/28/13 12:22
N-Nitrosodiphenylamine	U		67	180	µg/Kg-dry	1	08/28/13 12:22
Pentachlorophenol	U		17	370	µg/Kg-dry	1	08/28/13 12:22
Phenanthrene	130		34	34	µg/Kg-dry	1	08/28/13 12:22
Phenol	U		9.5	180	µg/Kg-dry	1	08/28/13 12:22
Pyrene	1,100		14	34	µg/Kg-dry	1	08/28/13 12:22
Surr: 2,4,6-Tribromophenol	94.8			34-140	%REC	1	08/28/13 12:22
Surr: 2-Fluorobiphenyl	84.5			12-100	%REC	1	08/28/13 12:22
Surr: 2-Fluorophenol	98.7			33-117	%REC	1	08/28/13 12:22
Surr: 4-Terphenyl-d14	112			25-137	%REC	1	08/28/13 12:22
Surr: Nitrobenzene-d5	74.9			37-107	%REC	1	08/28/13 12:22
Surr: Phenol-d6	90.2			40-106	%REC	1	08/28/13 12:22
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/27/13		Analyst: RS
BatchID: 50856							
1,1,1-Trichloroethane	U		14	37	µg/Kg-dry	1	08/28/13 06:15
1,1,2,2-Tetrachloroethane	U		16	37	µg/Kg-dry	1	08/28/13 06:15
1,1,2-Trichloroethane	U		13	37	µg/Kg-dry	1	08/28/13 06:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-082113-MR-114
Collection Date: 08/21/13 09:25 AM

Work Order: 1308937
Lab ID: 1308937-64
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichlorotrifluoroethane	U		14	37	µg/Kg-dry	1	08/28/13 06:15
1,1-Dichloroethane	U		14	37	µg/Kg-dry	1	08/28/13 06:15
1,1-Dichloroethene	U		16	37	µg/Kg-dry	1	08/28/13 06:15
1,2,4-Trichlorobenzene	U		19	37	µg/Kg-dry	1	08/28/13 06:15
1,2-Dibromo-3-chloropropane	U		18	37	µg/Kg-dry	1	08/28/13 06:15
1,2-Dibromoethane	U		15	37	µg/Kg-dry	1	08/28/13 06:15
1,2-Dichlorobenzene	U		15	37	µg/Kg-dry	1	08/28/13 06:15
1,2-Dichloroethane	U		18	37	µg/Kg-dry	1	08/28/13 06:15
1,2-Dichloropropane	U		12	37	µg/Kg-dry	1	08/28/13 06:15
1,3-Dichlorobenzene	U		15	37	µg/Kg-dry	1	08/28/13 06:15
1,4-Dichlorobenzene	U		14	37	µg/Kg-dry	1	08/28/13 06:15
2-Butanone	U		92	250	µg/Kg-dry	1	08/28/13 06:15
2-Hexanone	U		9.1	37	µg/Kg-dry	1	08/28/13 06:15
4-Methyl-2-pentanone	U		13	37	µg/Kg-dry	1	08/28/13 06:15
Acetone	U		79	120	µg/Kg-dry	1	08/28/13 06:15
Benzene	U		15	37	µg/Kg-dry	1	08/28/13 06:15
Bromodichloromethane	U		8.3	37	µg/Kg-dry	1	08/28/13 06:15
Bromoform	U		7.3	37	µg/Kg-dry	1	08/28/13 06:15
Bromomethane	U		14	93	µg/Kg-dry	1	08/28/13 06:15
Carbon disulfide	U		18	37	µg/Kg-dry	1	08/28/13 06:15
Carbon tetrachloride	U		11	37	µg/Kg-dry	1	08/28/13 06:15
Chlorobenzene	U		15	37	µg/Kg-dry	1	08/28/13 06:15
Chloroethane	U		79	120	µg/Kg-dry	1	08/28/13 06:15
Chloroform	U		15	37	µg/Kg-dry	1	08/28/13 06:15
Chloromethane	U		21	120	µg/Kg-dry	1	08/28/13 06:15
cis-1,2-Dichloroethene	U		15	37	µg/Kg-dry	1	08/28/13 06:15
cis-1,3-Dichloropropene	U		13	37	µg/Kg-dry	1	08/28/13 06:15
Cyclohexane	U		17	37	µg/Kg-dry	1	08/28/13 06:15
Dibromochloromethane	U		6.9	37	µg/Kg-dry	1	08/28/13 06:15
Dichlorodifluoromethane	U		17	37	µg/Kg-dry	1	08/28/13 06:15
Ethylbenzene	U		14	37	µg/Kg-dry	1	08/28/13 06:15
Isopropylbenzene	U		16	37	µg/Kg-dry	1	08/28/13 06:15
Methyl acetate	U		50	250	µg/Kg-dry	1	08/28/13 06:15
Methyl tert-butyl ether	U		16	37	µg/Kg-dry	1	08/28/13 06:15
Methylcyclohexane	U		17	37	µg/Kg-dry	1	08/28/13 06:15
Methylene chloride	U		15	37	µg/Kg-dry	1	08/28/13 06:15
Styrene	U		14	37	µg/Kg-dry	1	08/28/13 06:15
Tetrachloroethene	U		17	37	µg/Kg-dry	1	08/28/13 06:15
Toluene	U		14	37	µg/Kg-dry	1	08/28/13 06:15
trans-1,2-Dichloroethene	U		11	37	µg/Kg-dry	1	08/28/13 06:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-017360-082113-MR-114
Collection Date: 08/21/13 09:25 AM

Work Order: 1308937
Lab ID: 1308937-64
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		12	37	µg/Kg-dry	1	08/28/13 06:15
Trichloroethene	U		17	37	µg/Kg-dry	1	08/28/13 06:15
Trichlorofluoromethane	U		10	37	µg/Kg-dry	1	08/28/13 06:15
Vinyl chloride	U		17	37	µg/Kg-dry	1	08/28/13 06:15
Xylenes, Total	U		44	110	µg/Kg-dry	1	08/28/13 06:15
Surr: 1,2-Dichloroethane-d4	106			70-130	%REC	1	08/28/13 06:15
Surr: 4-Bromofluorobenzene	99.0			70-130	%REC	1	08/28/13 06:15
Surr: Dibromofluoromethane	99.5			70-130	%REC	1	08/28/13 06:15
Surr: Toluene-d8	100			70-130	%REC	1	08/28/13 06:15
MOISTURE			A2540 G				Analyst: EE
BatchID: <u>R125773</u>							
Moisture	11		0.025	0.050	% of sample	1	08/27/13 09:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: WG-17360-082113-EB-122
Collection Date: 08/21/13 03:00 PM

Work Order: 1308937
Lab ID: 1308937-65
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep: SW3510 / 8/27/13	Analyst: HL	
<u>BatchID: 50848</u>							
1,1'-Biphenyl	U		0.095	5.0	µg/L	1	08/27/13 19:54
2,4,5-Trichlorophenol	U		0.12	5.0	µg/L	1	08/27/13 19:54
2,4,6-Trichlorophenol	U		0.11	5.0	µg/L	1	08/27/13 19:54
2,4-Dichlorophenol	U		0.22	10	µg/L	1	08/27/13 19:54
2,4-Dimethylphenol	U		0.24	5.0	µg/L	1	08/27/13 19:54
2,4-Dinitrophenol	U		0.76	5.0	µg/L	1	08/27/13 19:54
2,4-Dinitrotoluene	U		0.78	5.0	µg/L	1	08/27/13 19:54
2,6-Dinitrotoluene	U		0.82	5.0	µg/L	1	08/27/13 19:54
2-Chloronaphthalene	U		0.13	5.0	µg/L	1	08/27/13 19:54
2-Chlorophenol	U		0.73	5.0	µg/L	1	08/27/13 19:54
2-Methylnaphthalene	U		0.13	5.0	µg/L	1	08/27/13 19:54
2-Methylphenol	U		0.60	5.0	µg/L	1	08/27/13 19:54
2-Nitroaniline	U		0.11	20	µg/L	1	08/27/13 19:54
2-Nitrophenol	U		0.19	5.0	µg/L	1	08/27/13 19:54
3,3'-Dichlorobenzidine	U		0.54	5.0	µg/L	1	08/27/13 19:54
3-Nitroaniline	U		2.5	20	µg/L	1	08/27/13 19:54
4,6-Dinitro-2-methylphenol	U		0.34	20	µg/L	1	08/27/13 19:54
4-Bromophenyl phenyl ether	U		0.11	5.0	µg/L	1	08/27/13 19:54
4-Chloro-3-methylphenol	U		0.65	5.0	µg/L	1	08/27/13 19:54
4-Chloroaniline	U		1.1	20	µg/L	1	08/27/13 19:54
4-Chlorophenyl phenyl ether	U		0.11	5.0	µg/L	1	08/27/13 19:54
4-Methylphenol	U		0.55	5.0	µg/L	1	08/27/13 19:54
4-Nitroaniline	U		1.5	20	µg/L	1	08/27/13 19:54
4-Nitrophenol	U		1.6	20	µg/L	1	08/27/13 19:54
Acenaphthene	U		0.11	5.0	µg/L	1	08/27/13 19:54
Acenaphthylene	U		0.12	5.0	µg/L	1	08/27/13 19:54
Acetophenone	U		0.090	1.0	µg/L	1	08/27/13 19:54
Anthracene	U		0.72	5.0	µg/L	1	08/27/13 19:54
Atrazine	U		0.13	1.0	µg/L	1	08/27/13 19:54
Benzaldehyde	U		0.46	1.0	µg/L	1	08/27/13 19:54
Benzo(a)anthracene	U		0.57	5.0	µg/L	1	08/27/13 19:54
Benzo(a)pyrene	U		0.10	5.0	µg/L	1	08/27/13 19:54
Benzo(b)fluoranthene	U		0.74	5.0	µg/L	1	08/27/13 19:54
Benzo(g,h,i)perylene	U		0.70	5.0	µg/L	1	08/27/13 19:54
Benzo(k)fluoranthene	U		0.17	5.0	µg/L	1	08/27/13 19:54
Bis(2-chloroethoxy)methane	U		0.13	5.0	µg/L	1	08/27/13 19:54
Bis(2-chloroethyl)ether	U		0.11	5.0	µg/L	1	08/27/13 19:54

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: WG-17360-082113-EB-122
Collection Date: 08/21/13 03:00 PM

Work Order: 1308937
Lab ID: 1308937-65
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bis(2-chloroisopropyl)ether	U		0.12	5.0	µg/L	1	08/27/13 19:54
Bis(2-ethylhexyl)phthalate	U		0.12	5.0	µg/L	1	08/27/13 19:54
Butyl benzyl phthalate	U		0.11	5.0	µg/L	1	08/27/13 19:54
Caprolactam	U		4.7	10	µg/L	1	08/27/13 19:54
Carbazole	U		0.84	10	µg/L	1	08/27/13 19:54
Chrysene	U		0.71	5.0	µg/L	1	08/27/13 19:54
Dibenzo(a,h)anthracene	U		0.67	5.0	µg/L	1	08/27/13 19:54
Dibenzofuran	U		0.11	5.0	µg/L	1	08/27/13 19:54
Diethyl phthalate	2.4	J	0.69	20	µg/L	1	08/27/13 19:54
Dimethyl phthalate	U		0.14	20	µg/L	1	08/27/13 19:54
Di-n-butyl phthalate	U		0.71	5.0	µg/L	1	08/27/13 19:54
Di-n-octyl phthalate	U		0.12	5.0	µg/L	1	08/27/13 19:54
Fluoranthene	U		0.77	5.0	µg/L	1	08/27/13 19:54
Fluorene	U		0.10	5.0	µg/L	1	08/27/13 19:54
Hexachlorobenzene	U		0.10	5.0	µg/L	1	08/27/13 19:54
Hexachlorobutadiene	U		0.12	5.0	µg/L	1	08/27/13 19:54
Hexachlorocyclopentadiene	U		0.18	20	µg/L	1	08/27/13 19:54
Hexachloroethane	U		0.13	5.0	µg/L	1	08/27/13 19:54
Indeno(1,2,3-cd)pyrene	U		0.69	5.0	µg/L	1	08/27/13 19:54
Isophorone	U		0.12	5.0	µg/L	1	08/27/13 19:54
Naphthalene	U		0.12	5.0	µg/L	1	08/27/13 19:54
Nitrobenzene	U		0.10	5.0	µg/L	1	08/27/13 19:54
N-Nitrosodi-n-propylamine	U		0.13	5.0	µg/L	1	08/27/13 19:54
N-Nitrosodiphenylamine	U		0.81	5.0	µg/L	1	08/27/13 19:54
Pentachlorophenol	U		0.11	20	µg/L	1	08/27/13 19:54
Phenanthrene	U		0.86	5.0	µg/L	1	08/27/13 19:54
Phenol	U		0.094	5.0	µg/L	1	08/27/13 19:54
Pyrene	U		0.65	5.0	µg/L	1	08/27/13 19:54
Surr: 2,4,6-Tribromophenol	65.6			32-115	%REC	1	08/27/13 19:54
Surr: 2-Fluorobiphenyl	43.5			32-100	%REC	1	08/27/13 19:54
Surr: 2-Fluorophenol	24.6			22-59	%REC	1	08/27/13 19:54
Surr: 4-Terphenyl-d14	64.7			23-112	%REC	1	08/27/13 19:54
Surr: Nitrobenzene-d5	45.7			31-93	%REC	1	08/27/13 19:54
Surr: Phenol-d6	15.5			13-36	%REC	1	08/27/13 19:54
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: AK	
BatchID: R125763							
1,1,1-Trichloroethane	U		0.14	1.0	µg/L	1	08/28/13 15:47
1,1,2,2-Tetrachloroethane	U		0.13	1.0	µg/L	1	08/28/13 15:47
1,1,2-Trichloroethane	U		0.084	1.0	µg/L	1	08/28/13 15:47

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: WG-17360-082113-EB-122
Collection Date: 08/21/13 03:00 PM

Work Order: 1308937
Lab ID: 1308937-65
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichlorotrifluoroethane	U		0.18	1.0	µg/L	1	08/28/13 15:47
1,1-Dichloroethane	U		0.11	1.0	µg/L	1	08/28/13 15:47
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	08/28/13 15:47
1,2,4-Trichlorobenzene	U		0.16	5.0	µg/L	1	08/28/13 15:47
1,2-Dibromo-3-chloropropane	U		0.31	1.0	µg/L	1	08/28/13 15:47
1,2-Dibromoethane	U		0.16	1.0	µg/L	1	08/28/13 15:47
1,2-Dichlorobenzene	U		0.13	1.0	µg/L	1	08/28/13 15:47
1,2-Dichloroethane	U		0.15	1.0	µg/L	1	08/28/13 15:47
1,2-Dichloropropane	U		0.13	1.0	µg/L	1	08/28/13 15:47
1,3-Dichlorobenzene	U		0.16	1.0	µg/L	1	08/28/13 15:47
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	08/28/13 15:47
2-Butanone	U		0.22	25	µg/L	1	08/28/13 15:47
2-Hexanone	U		0.12	50	µg/L	1	08/28/13 15:47
4-Methyl-2-pentanone	U		0.096	50	µg/L	1	08/28/13 15:47
Acetone	U		0.33	50	µg/L	1	08/28/13 15:47
Benzene	U		0.18	1.0	µg/L	1	08/28/13 15:47
Bromodichloromethane	U		0.12	1.0	µg/L	1	08/28/13 15:47
Bromoform	U		0.15	1.0	µg/L	1	08/28/13 15:47
Bromomethane	U		0.21	5.0	µg/L	1	08/28/13 15:47
Carbon disulfide	U		0.17	5.0	µg/L	1	08/28/13 15:47
Carbon tetrachloride	U		0.12	1.0	µg/L	1	08/28/13 15:47
Chlorobenzene	U		0.13	1.0	µg/L	1	08/28/13 15:47
Chloroethane	U		0.46	5.0	µg/L	1	08/28/13 15:47
Chloroform	U		0.15	1.0	µg/L	1	08/28/13 15:47
Chloromethane	U		0.16	5.0	µg/L	1	08/28/13 15:47
cis-1,2-Dichloroethene	U		0.11	1.0	µg/L	1	08/28/13 15:47
cis-1,3-Dichloropropene	U		0.081	1.0	µg/L	1	08/28/13 15:47
Cyclohexane	U		0.22	1.0	µg/L	1	08/28/13 15:47
Dibromochloromethane	U		0.13	5.0	µg/L	1	08/28/13 15:47
Dichlorodifluoromethane	U		0.20	5.0	µg/L	1	08/28/13 15:47
Ethylbenzene	U		0.13	1.0	µg/L	1	08/28/13 15:47
Isopropylbenzene	U		0.14	5.0	µg/L	1	08/28/13 15:47
Methyl acetate	U		0.19	10	µg/L	1	08/28/13 15:47
Methyl tert-butyl ether	U		0.070	5.0	µg/L	1	08/28/13 15:47
Methylcyclohexane	U		0.99	1.0	µg/L	1	08/28/13 15:47
Methylene chloride	U		0.19	5.0	µg/L	1	08/28/13 15:47
Styrene	U		0.11	1.0	µg/L	1	08/28/13 15:47
Tetrachloroethene	U		0.15	1.0	µg/L	1	08/28/13 15:47
Toluene	U		0.12	1.0	µg/L	1	08/28/13 15:47
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	08/28/13 15:47

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: WG-17360-082113-EB-122
Collection Date: 08/21/13 03:00 PM

Work Order: 1308937
Lab ID: 1308937-65
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.15	1.0	µg/L	1	08/28/13 15:47
Trichloroethene	U		0.14	1.0	µg/L	1	08/28/13 15:47
Trichlorofluoromethane	U		0.18	1.0	µg/L	1	08/28/13 15:47
Vinyl chloride	U		0.17	1.0	µg/L	1	08/28/13 15:47
Xylenes, Total	U		0.29	3.0	µg/L	1	08/28/13 15:47
Surr: 1,2-Dichloroethane-d4	99.7			70-120	%REC	1	08/28/13 15:47
Surr: 4-Bromofluorobenzene	98.2			75-120	%REC	1	08/28/13 15:47
Surr: Dibromofluoromethane	100			85-115	%REC	1	08/28/13 15:47
Surr: Toluene-d8	101			85-120	%REC	1	08/28/13 15:47

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: WG-17360-082113-EB-123
Collection Date: 08/21/13 03:15 PM

Work Order: 1308937
Lab ID: 1308937-66
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep: SW3510 / 8/27/13	Analyst: HL	
<u>BatchID: 50848</u>							
1,1'-Biphenyl	U		0.095	5.0	µg/L	1	08/27/13 20:26
2,4,5-Trichlorophenol	U		0.12	5.0	µg/L	1	08/27/13 20:26
2,4,6-Trichlorophenol	U		0.11	5.0	µg/L	1	08/27/13 20:26
2,4-Dichlorophenol	U		0.22	10	µg/L	1	08/27/13 20:26
2,4-Dimethylphenol	U		0.24	5.0	µg/L	1	08/27/13 20:26
2,4-Dinitrophenol	U		0.76	5.0	µg/L	1	08/27/13 20:26
2,4-Dinitrotoluene	U		0.78	5.0	µg/L	1	08/27/13 20:26
2,6-Dinitrotoluene	U		0.82	5.0	µg/L	1	08/27/13 20:26
2-Chloronaphthalene	U		0.13	5.0	µg/L	1	08/27/13 20:26
2-Chlorophenol	U		0.73	5.0	µg/L	1	08/27/13 20:26
2-Methylnaphthalene	U		0.13	5.0	µg/L	1	08/27/13 20:26
2-Methylphenol	U		0.60	5.0	µg/L	1	08/27/13 20:26
2-Nitroaniline	U		0.11	20	µg/L	1	08/27/13 20:26
2-Nitrophenol	U		0.19	5.0	µg/L	1	08/27/13 20:26
3,3'-Dichlorobenzidine	U		0.54	5.0	µg/L	1	08/27/13 20:26
3-Nitroaniline	U		2.5	20	µg/L	1	08/27/13 20:26
4,6-Dinitro-2-methylphenol	U		0.34	20	µg/L	1	08/27/13 20:26
4-Bromophenyl phenyl ether	U		0.11	5.0	µg/L	1	08/27/13 20:26
4-Chloro-3-methylphenol	U		0.65	5.0	µg/L	1	08/27/13 20:26
4-Chloroaniline	U		1.1	20	µg/L	1	08/27/13 20:26
4-Chlorophenyl phenyl ether	U		0.11	5.0	µg/L	1	08/27/13 20:26
4-Methylphenol	U		0.55	5.0	µg/L	1	08/27/13 20:26
4-Nitroaniline	U		1.5	20	µg/L	1	08/27/13 20:26
4-Nitrophenol	U		1.6	20	µg/L	1	08/27/13 20:26
Acenaphthene	U		0.11	5.0	µg/L	1	08/27/13 20:26
Acenaphthylene	U		0.12	5.0	µg/L	1	08/27/13 20:26
Acetophenone	U		0.090	1.0	µg/L	1	08/27/13 20:26
Anthracene	U		0.72	5.0	µg/L	1	08/27/13 20:26
Atrazine	U		0.13	1.0	µg/L	1	08/27/13 20:26
Benzaldehyde	U		0.46	1.0	µg/L	1	08/27/13 20:26
Benzo(a)anthracene	U		0.57	5.0	µg/L	1	08/27/13 20:26
Benzo(a)pyrene	U		0.10	5.0	µg/L	1	08/27/13 20:26
Benzo(b)fluoranthene	U		0.74	5.0	µg/L	1	08/27/13 20:26
Benzo(g,h,i)perylene	U		0.70	5.0	µg/L	1	08/27/13 20:26
Benzo(k)fluoranthene	U		0.17	5.0	µg/L	1	08/27/13 20:26
Bis(2-chloroethoxy)methane	U		0.13	5.0	µg/L	1	08/27/13 20:26
Bis(2-chloroethyl)ether	U		0.11	5.0	µg/L	1	08/27/13 20:26

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: WG-17360-082113-EB-123
Collection Date: 08/21/13 03:15 PM

Work Order: 1308937
Lab ID: 1308937-66
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bis(2-chloroisopropyl)ether	U		0.12	5.0	µg/L	1	08/27/13 20:26
Bis(2-ethylhexyl)phthalate	4.1	J	0.12	5.0	µg/L	1	08/27/13 20:26
Butyl benzyl phthalate	U		0.11	5.0	µg/L	1	08/27/13 20:26
Caprolactam	U		4.7	10	µg/L	1	08/27/13 20:26
Carbazole	U		0.84	10	µg/L	1	08/27/13 20:26
Chrysene	U		0.71	5.0	µg/L	1	08/27/13 20:26
Dibenzo(a,h)anthracene	U		0.67	5.0	µg/L	1	08/27/13 20:26
Dibenzofuran	U		0.11	5.0	µg/L	1	08/27/13 20:26
Diethyl phthalate	1.9	J	0.69	20	µg/L	1	08/27/13 20:26
Dimethyl phthalate	U		0.14	20	µg/L	1	08/27/13 20:26
Di-n-butyl phthalate	U		0.71	5.0	µg/L	1	08/27/13 20:26
Di-n-octyl phthalate	U		0.12	5.0	µg/L	1	08/27/13 20:26
Fluoranthene	U		0.77	5.0	µg/L	1	08/27/13 20:26
Fluorene	U		0.10	5.0	µg/L	1	08/27/13 20:26
Hexachlorobenzene	U		0.10	5.0	µg/L	1	08/27/13 20:26
Hexachlorobutadiene	U		0.12	5.0	µg/L	1	08/27/13 20:26
Hexachlorocyclopentadiene	U		0.18	20	µg/L	1	08/27/13 20:26
Hexachloroethane	U		0.13	5.0	µg/L	1	08/27/13 20:26
Indeno(1,2,3-cd)pyrene	U		0.69	5.0	µg/L	1	08/27/13 20:26
Isophorone	U		0.12	5.0	µg/L	1	08/27/13 20:26
Naphthalene	U		0.12	5.0	µg/L	1	08/27/13 20:26
Nitrobenzene	U		0.10	5.0	µg/L	1	08/27/13 20:26
N-Nitrosodi-n-propylamine	U		0.13	5.0	µg/L	1	08/27/13 20:26
N-Nitrosodiphenylamine	U		0.81	5.0	µg/L	1	08/27/13 20:26
Pentachlorophenol	U		0.11	20	µg/L	1	08/27/13 20:26
Phenanthrene	U		0.86	5.0	µg/L	1	08/27/13 20:26
Phenol	U		0.094	5.0	µg/L	1	08/27/13 20:26
Pyrene	U		0.65	5.0	µg/L	1	08/27/13 20:26
Surr: 2,4,6-Tribromophenol	64.8			32-115	%REC	1	08/27/13 20:26
Surr: 2-Fluorobiphenyl	41.9			32-100	%REC	1	08/27/13 20:26
Surr: 2-Fluorophenol	25.7			22-59	%REC	1	08/27/13 20:26
Surr: 4-Terphenyl-d14	76.3			23-112	%REC	1	08/27/13 20:26
Surr: Nitrobenzene-d5	42.5			31-93	%REC	1	08/27/13 20:26
Surr: Phenol-d6	15.9			13-36	%REC	1	08/27/13 20:26

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: RS

BatchID: R125758

1,1,1-Trichloroethane	U		0.14	1.0	µg/L	1	08/28/13 05:21
1,1,2,2-Tetrachloroethane	U		0.13	1.0	µg/L	1	08/28/13 05:21
1,1,2-Trichloroethane	U		0.084	1.0	µg/L	1	08/28/13 05:21

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: WG-17360-082113-EB-123
Collection Date: 08/21/13 03:15 PM

Work Order: 1308937
Lab ID: 1308937-66
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichlorotrifluoroethane	U		0.18	1.0	µg/L	1	08/28/13 05:21
1,1-Dichloroethane	U		0.11	1.0	µg/L	1	08/28/13 05:21
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	08/28/13 05:21
1,2,4-Trichlorobenzene	U		0.16	5.0	µg/L	1	08/28/13 05:21
1,2-Dibromo-3-chloropropane	U		0.31	1.0	µg/L	1	08/28/13 05:21
1,2-Dibromoethane	U		0.16	1.0	µg/L	1	08/28/13 05:21
1,2-Dichlorobenzene	U		0.13	1.0	µg/L	1	08/28/13 05:21
1,2-Dichloroethane	U		0.15	1.0	µg/L	1	08/28/13 05:21
1,2-Dichloropropane	U		0.13	1.0	µg/L	1	08/28/13 05:21
1,3-Dichlorobenzene	U		0.16	1.0	µg/L	1	08/28/13 05:21
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	08/28/13 05:21
2-Butanone	U		0.22	25	µg/L	1	08/28/13 05:21
2-Hexanone	U		0.12	50	µg/L	1	08/28/13 05:21
4-Methyl-2-pentanone	U		0.096	50	µg/L	1	08/28/13 05:21
Acetone	2.3	J	0.33	50	µg/L	1	08/28/13 05:21
Benzene	0.23	J	0.18	1.0	µg/L	1	08/28/13 05:21
Bromodichloromethane	U		0.12	1.0	µg/L	1	08/28/13 05:21
Bromoform	U		0.15	1.0	µg/L	1	08/28/13 05:21
Bromomethane	U		0.21	5.0	µg/L	1	08/28/13 05:21
Carbon disulfide	U		0.17	5.0	µg/L	1	08/28/13 05:21
Carbon tetrachloride	U		0.12	1.0	µg/L	1	08/28/13 05:21
Chlorobenzene	U		0.13	1.0	µg/L	1	08/28/13 05:21
Chloroethane	U		0.46	5.0	µg/L	1	08/28/13 05:21
Chloroform	U		0.15	1.0	µg/L	1	08/28/13 05:21
Chloromethane	U		0.16	5.0	µg/L	1	08/28/13 05:21
cis-1,2-Dichloroethene	U		0.11	1.0	µg/L	1	08/28/13 05:21
cis-1,3-Dichloropropene	U		0.081	1.0	µg/L	1	08/28/13 05:21
Cyclohexane	U		0.22	1.0	µg/L	1	08/28/13 05:21
Dibromochloromethane	U		0.13	5.0	µg/L	1	08/28/13 05:21
Dichlorodifluoromethane	U		0.20	5.0	µg/L	1	08/28/13 05:21
Ethylbenzene	U		0.13	1.0	µg/L	1	08/28/13 05:21
Isopropylbenzene	U		0.14	5.0	µg/L	1	08/28/13 05:21
Methyl acetate	U		0.19	10	µg/L	1	08/28/13 05:21
Methyl tert-butyl ether	U		0.070	5.0	µg/L	1	08/28/13 05:21
Methylcyclohexane	U		0.99	1.0	µg/L	1	08/28/13 05:21
Methylene chloride	U		0.19	5.0	µg/L	1	08/28/13 05:21
Styrene	U		0.11	1.0	µg/L	1	08/28/13 05:21
Tetrachloroethene	U		0.15	1.0	µg/L	1	08/28/13 05:21
Toluene	0.27	J	0.12	1.0	µg/L	1	08/28/13 05:21
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	08/28/13 05:21

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: WG-17360-082113-EB-123
Collection Date: 08/21/13 03:15 PM

Work Order: 1308937
Lab ID: 1308937-66
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.15	1.0	µg/L	1	08/28/13 05:21
Trichloroethene	U		0.14	1.0	µg/L	1	08/28/13 05:21
Trichlorofluoromethane	U		0.18	1.0	µg/L	1	08/28/13 05:21
Vinyl chloride	U		0.17	1.0	µg/L	1	08/28/13 05:21
Xylenes, Total	0.41	J	0.29	3.0	µg/L	1	08/28/13 05:21
Surr: 1,2-Dichloroethane-d4	104			70-120	%REC	1	08/28/13 05:21
Surr: 4-Bromofluorobenzene	99.6			75-120	%REC	1	08/28/13 05:21
Surr: Dibromofluoromethane	105			85-115	%REC	1	08/28/13 05:21
Surr: Toluene-d8	98.4			85-120	%REC	1	08/28/13 05:21

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-152
Collection Date: 08/22/13 11:00 AM

Work Order: 1308937
Lab ID: 1308937-67
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/28/13		Analyst: JD
<u>BatchID: 50887</u>							
Aroclor 1016	U		37	340	µg/Kg-dry	1	08/29/13 20:08
Aroclor 1221	U		37	340	µg/Kg-dry	1	08/29/13 20:08
Aroclor 1232	U		37	340	µg/Kg-dry	1	08/29/13 20:08
Aroclor 1242	U		37	340	µg/Kg-dry	1	08/29/13 20:08
Aroclor 1248	U		37	340	µg/Kg-dry	1	08/29/13 20:08
Aroclor 1254	U		12	340	µg/Kg-dry	1	08/29/13 20:08
Aroclor 1260	U		12	340	µg/Kg-dry	1	08/29/13 20:08
Surr: Decachlorobiphenyl	93.1			40-140	%REC	1	08/29/13 20:08
MERCURY BY CVAA							
			SW7471		Prep: SW7471 / 8/30/13		Analyst: LR
<u>BatchID: 50941</u>							
Mercury	0.010	J	0.00068	0.034	mg/Kg-dry	1	08/30/13 14:13
METALS BY ICP-MS							
			SW6020A		Prep: SW3050B / 8/28/13		Analyst: ML
<u>BatchID: 50876</u>							
Antimony	0.12	J	0.0015	0.37	mg/Kg-dry	1	08/29/13 20:21
Arsenic	1.5		0.050	0.37	mg/Kg-dry	1	08/29/13 20:21
Barium	17		0.010	0.88	mg/Kg-dry	1	08/29/13 20:21
Beryllium	0.092	J	0.0029	0.15	mg/Kg-dry	1	08/29/13 20:21
Cadmium	0.052	J	0.0015	0.15	mg/Kg-dry	1	08/29/13 20:21
Chromium	6.4		0.060	0.37	mg/Kg-dry	1	08/29/13 20:21
Cobalt	2.1		0.0015	0.37	mg/Kg-dry	1	08/29/13 20:21
Copper	4.2		0.072	0.37	mg/Kg-dry	1	08/29/13 20:21
Iron	5,200		1.2	37	mg/Kg-dry	1	08/29/13 20:21
Lead	3.8		0.0015	0.73	mg/Kg-dry	1	08/29/13 20:21
Molybdenum	0.22	J	0.016	0.37	mg/Kg-dry	1	08/29/13 20:21
Nickel	4.8		0.037	0.37	mg/Kg-dry	1	08/29/13 20:21
Selenium	0.22	J	0.047	0.37	mg/Kg-dry	1	08/29/13 20:21
Silver	0.0024	J	0.0015	0.37	mg/Kg-dry	1	08/29/13 20:21
Thallium	0.053	J	0.0088	0.37	mg/Kg-dry	1	08/29/13 20:21
Vanadium	10		0.022	0.37	mg/Kg-dry	1	08/29/13 20:21
Zinc	12		0.031	0.73	mg/Kg-dry	1	08/29/13 20:21
<u>BatchID: 50876</u>							
Manganese	180		0.32	3.7	mg/Kg-dry	10	08/30/13 14:36
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270		Prep: SW3541 / 8/27/13		Analyst: RM
<u>BatchID: 50858</u>							
2-Methylnaphthalene	U		10	85	µg/Kg-dry	1	08/28/13 12:41
Acenaphthene	U		9.7	32	µg/Kg-dry	1	08/28/13 12:41

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-152
Collection Date: 08/22/13 11:00 AM

Work Order: 1308937
Lab ID: 1308937-67
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene		U	10	32	µg/Kg-dry	1	08/28/13 12:41
Anthracene		U	11	32	µg/Kg-dry	1	08/28/13 12:41
Benzo(a)anthracene		U	13	32	µg/Kg-dry	1	08/28/13 12:41
Benzo(a)pyrene	68		16	32	µg/Kg-dry	1	08/28/13 12:41
Benzo(b)fluoranthene	55		17	32	µg/Kg-dry	1	08/28/13 12:41
Benzo(g,h,i)perylene	62		25	32	µg/Kg-dry	1	08/28/13 12:41
Benzo(k)fluoranthene	35		14	32	µg/Kg-dry	1	08/28/13 12:41
Chrysene		U	12	32	µg/Kg-dry	1	08/28/13 12:41
Dibenzo(a,h)anthracene		U	18	32	µg/Kg-dry	1	08/28/13 12:41
Fluoranthene	56		13	32	µg/Kg-dry	1	08/28/13 12:41
Fluorene		U	9.3	32	µg/Kg-dry	1	08/28/13 12:41
Indeno(1,2,3-cd)pyrene	33		20	32	µg/Kg-dry	1	08/28/13 12:41
Naphthalene		U	9.1	32	µg/Kg-dry	1	08/28/13 12:41
Phenanthrene		U	32	32	µg/Kg-dry	1	08/28/13 12:41
Pyrene	38		13	32	µg/Kg-dry	1	08/28/13 12:41
Surr: 2-Fluorobiphenyl	88.7			12-100	%REC	1	08/28/13 12:41
Surr: 4-Terphenyl-d14	122			25-137	%REC	1	08/28/13 12:41
Surr: Nitrobenzene-d5	82.3			37-107	%REC	1	08/28/13 12:41
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/27/13		Analyst: RS
BatchID: 50856							
1,1,1-Trichloroethane		U	13	33	µg/Kg-dry	1	08/28/13 06:42
1,1,2,2-Tetrachloroethane		U	14	33	µg/Kg-dry	1	08/28/13 06:42
1,1,2-Trichloroethane		U	12	33	µg/Kg-dry	1	08/28/13 06:42
1,1,2-Trichlorotrifluoroethane		U	12	33	µg/Kg-dry	1	08/28/13 06:42
1,1-Dichloroethane		U	12	33	µg/Kg-dry	1	08/28/13 06:42
1,1-Dichloroethene		U	14	33	µg/Kg-dry	1	08/28/13 06:42
1,2,4-Trichlorobenzene		U	17	33	µg/Kg-dry	1	08/28/13 06:42
1,2-Dibromo-3-chloropropane		U	16	33	µg/Kg-dry	1	08/28/13 06:42
1,2-Dibromoethane		U	13	33	µg/Kg-dry	1	08/28/13 06:42
1,2-Dichlorobenzene		U	13	33	µg/Kg-dry	1	08/28/13 06:42
1,2-Dichloroethane		U	16	33	µg/Kg-dry	1	08/28/13 06:42
1,2-Dichloropropane		U	11	33	µg/Kg-dry	1	08/28/13 06:42
1,3-Dichlorobenzene		U	13	33	µg/Kg-dry	1	08/28/13 06:42
1,4-Dichlorobenzene		U	13	33	µg/Kg-dry	1	08/28/13 06:42
2-Butanone		U	81	220	µg/Kg-dry	1	08/28/13 06:42
2-Hexanone		U	8.1	33	µg/Kg-dry	1	08/28/13 06:42
4-Methyl-2-pentanone		U	11	33	µg/Kg-dry	1	08/28/13 06:42
Acetone		U	70	110	µg/Kg-dry	1	08/28/13 06:42
Benzene		U	13	33	µg/Kg-dry	1	08/28/13 06:42

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-152
Collection Date: 08/22/13 11:00 AM

Work Order: 1308937
Lab ID: 1308937-67
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromodichloromethane	U		7.4	33	µg/Kg-dry	1	08/28/13 06:42
Bromoform	U		6.5	33	µg/Kg-dry	1	08/28/13 06:42
Bromomethane	U		13	82	µg/Kg-dry	1	08/28/13 06:42
Carbon disulfide	U		16	33	µg/Kg-dry	1	08/28/13 06:42
Carbon tetrachloride	U		9.4	33	µg/Kg-dry	1	08/28/13 06:42
Chlorobenzene	U		13	33	µg/Kg-dry	1	08/28/13 06:42
Chloroethane	U		70	110	µg/Kg-dry	1	08/28/13 06:42
Chloroform	U		14	33	µg/Kg-dry	1	08/28/13 06:42
Chloromethane	U		18	110	µg/Kg-dry	1	08/28/13 06:42
cis-1,2-Dichloroethene	U		13	33	µg/Kg-dry	1	08/28/13 06:42
cis-1,3-Dichloropropene	U		11	33	µg/Kg-dry	1	08/28/13 06:42
Cyclohexane	U		15	33	µg/Kg-dry	1	08/28/13 06:42
Dibromochloromethane	U		6.1	33	µg/Kg-dry	1	08/28/13 06:42
Dichlorodifluoromethane	U		15	33	µg/Kg-dry	1	08/28/13 06:42
Ethylbenzene	U		12	33	µg/Kg-dry	1	08/28/13 06:42
Isopropylbenzene	U		14	33	µg/Kg-dry	1	08/28/13 06:42
Methyl acetate	U		44	220	µg/Kg-dry	1	08/28/13 06:42
Methyl tert-butyl ether	U		14	33	µg/Kg-dry	1	08/28/13 06:42
Methylcyclohexane	U		15	33	µg/Kg-dry	1	08/28/13 06:42
Methylene chloride	U		13	33	µg/Kg-dry	1	08/28/13 06:42
Styrene	U		12	33	µg/Kg-dry	1	08/28/13 06:42
Tetrachloroethene	U		15	33	µg/Kg-dry	1	08/28/13 06:42
Toluene	U		12	33	µg/Kg-dry	1	08/28/13 06:42
trans-1,2-Dichloroethene	U		10	33	µg/Kg-dry	1	08/28/13 06:42
trans-1,3-Dichloropropene	U		11	33	µg/Kg-dry	1	08/28/13 06:42
Trichloroethene	U		15	33	µg/Kg-dry	1	08/28/13 06:42
Trichlorofluoromethane	U		9.1	33	µg/Kg-dry	1	08/28/13 06:42
Vinyl chloride	U		15	33	µg/Kg-dry	1	08/28/13 06:42
Xylenes, Total	U		39	99	µg/Kg-dry	1	08/28/13 06:42
Surr: 1,2-Dichloroethane-d4	102			70-130	%REC	1	08/28/13 06:42
Surr: 4-Bromofluorobenzene	97.2			70-130	%REC	1	08/28/13 06:42
Surr: Dibromofluoromethane	98.3			70-130	%REC	1	08/28/13 06:42
Surr: Toluene-d8	98.6			70-130	%REC	1	08/28/13 06:42

MOISTURE

A2540 G

Analyst: RLF

BatchID: R125842

Moisture	8.9	0.025	0.050	% of sample	1	08/28/13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-153
Collection Date: 08/22/13 11:50 AM

Work Order: 1308937
Lab ID: 1308937-68
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Prep: SW3541 / 8/28/13	Analyst: JD
<u>BatchID: 50887</u>							
Aroclor 1016	U		37	340	µg/Kg-dry	1	08/29/13 20:22
Aroclor 1221	U		37	340	µg/Kg-dry	1	08/29/13 20:22
Aroclor 1232	U		37	340	µg/Kg-dry	1	08/29/13 20:22
Aroclor 1242	U		37	340	µg/Kg-dry	1	08/29/13 20:22
Aroclor 1248	U		37	340	µg/Kg-dry	1	08/29/13 20:22
Aroclor 1254	U		12	340	µg/Kg-dry	1	08/29/13 20:22
Aroclor 1260	U		12	340	µg/Kg-dry	1	08/29/13 20:22
Surr: Decachlorobiphenyl	96.1			40-140	%REC	1	08/29/13 20:22
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/30/13	Analyst: LR
<u>BatchID: 50941</u>							
Mercury	0.0051	J	0.00073	0.037	mg/Kg-dry	1	08/30/13 14:15
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/28/13	Analyst: ML
<u>BatchID: 50876</u>							
Antimony	0.051	J	0.00096	0.24	mg/Kg-dry	1	08/29/13 20:27
Arsenic	1.8		0.033	0.24	mg/Kg-dry	1	08/29/13 20:27
Barium	7.5		0.0067	0.57	mg/Kg-dry	1	08/29/13 20:27
Beryllium	0.041	J	0.0019	0.096	mg/Kg-dry	1	08/29/13 20:27
Cadmium	0.027	J	0.00096	0.096	mg/Kg-dry	1	08/29/13 20:27
Chromium	6.4		0.039	0.24	mg/Kg-dry	1	08/29/13 20:27
Cobalt	2.7		0.00096	0.24	mg/Kg-dry	1	08/29/13 20:27
Copper	5.7		0.047	0.24	mg/Kg-dry	1	08/29/13 20:27
Iron	5,600		0.80	24	mg/Kg-dry	1	08/29/13 20:27
Lead	2.6		0.00096	0.48	mg/Kg-dry	1	08/29/13 20:27
Molybdenum	0.15	J	0.011	0.24	mg/Kg-dry	1	08/29/13 20:27
Nickel	6.0		0.024	0.24	mg/Kg-dry	1	08/29/13 20:27
Selenium	0.21	J	0.031	0.24	mg/Kg-dry	1	08/29/13 20:27
Silver	0.0028	J	0.00096	0.24	mg/Kg-dry	1	08/29/13 20:27
Thallium	0.042	J	0.0057	0.24	mg/Kg-dry	1	08/29/13 20:27
Vanadium	8.0		0.014	0.24	mg/Kg-dry	1	08/29/13 20:27
Zinc	9.3		0.020	0.48	mg/Kg-dry	1	08/29/13 20:27
<u>BatchID: 50876</u>							
Manganese	190		0.21	2.4	mg/Kg-dry	10	08/30/13 14:43
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/27/13	Analyst: RM
<u>BatchID: 50858</u>							
2-Methylnaphthalene	U		10	83	µg/Kg-dry	1	08/28/13 13:01
Acenaphthene	U		9.4	31	µg/Kg-dry	1	08/28/13 13:01

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-153
Collection Date: 08/22/13 11:50 AM

Work Order: 1308937
Lab ID: 1308937-68
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene		U	9.8	31	µg/Kg-dry	1	08/28/13 13:01
Anthracene		U	11	31	µg/Kg-dry	1	08/28/13 13:01
Benzo(a)anthracene		U	13	31	µg/Kg-dry	1	08/28/13 13:01
Benzo(a)pyrene		U	16	31	µg/Kg-dry	1	08/28/13 13:01
Benzo(b)fluoranthene		U	17	31	µg/Kg-dry	1	08/28/13 13:01
Benzo(g,h,i)perylene		U	24	31	µg/Kg-dry	1	08/28/13 13:01
Benzo(k)fluoranthene		U	14	31	µg/Kg-dry	1	08/28/13 13:01
Chrysene		U	12	31	µg/Kg-dry	1	08/28/13 13:01
Dibenzo(a,h)anthracene		U	18	31	µg/Kg-dry	1	08/28/13 13:01
Fluoranthene	43		12	31	µg/Kg-dry	1	08/28/13 13:01
Fluorene		U	9.0	31	µg/Kg-dry	1	08/28/13 13:01
Indeno(1,2,3-cd)pyrene		U	20	31	µg/Kg-dry	1	08/28/13 13:01
Naphthalene		U	8.8	31	µg/Kg-dry	1	08/28/13 13:01
Phenanthrene		U	31	31	µg/Kg-dry	1	08/28/13 13:01
Pyrene	18	J	13	31	µg/Kg-dry	1	08/28/13 13:01
Surr: 2-Fluorobiphenyl	89.6			12-100	%REC	1	08/28/13 13:01
Surr: 4-Terphenyl-d14	123			25-137	%REC	1	08/28/13 13:01
Surr: Nitrobenzene-d5	84.0			37-107	%REC	1	08/28/13 13:01
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/27/13		Analyst: RS
BatchID: 50856							
1,1,1-Trichloroethane		U	12	33	µg/Kg-dry	1	08/28/13 07:08
1,1,2,2-Tetrachloroethane		U	14	33	µg/Kg-dry	1	08/28/13 07:08
1,1,2-Trichloroethane		U	12	33	µg/Kg-dry	1	08/28/13 07:08
1,1,2-Trichlorotrifluoroethane		U	12	33	µg/Kg-dry	1	08/28/13 07:08
1,1-Dichloroethane		U	12	33	µg/Kg-dry	1	08/28/13 07:08
1,1-Dichloroethene		U	14	33	µg/Kg-dry	1	08/28/13 07:08
1,2,4-Trichlorobenzene		U	17	33	µg/Kg-dry	1	08/28/13 07:08
1,2-Dibromo-3-chloropropane		U	16	33	µg/Kg-dry	1	08/28/13 07:08
1,2-Dibromoethane		U	13	33	µg/Kg-dry	1	08/28/13 07:08
1,2-Dichlorobenzene		U	13	33	µg/Kg-dry	1	08/28/13 07:08
1,2-Dichloroethane		U	16	33	µg/Kg-dry	1	08/28/13 07:08
1,2-Dichloropropane		U	11	33	µg/Kg-dry	1	08/28/13 07:08
1,3-Dichlorobenzene		U	13	33	µg/Kg-dry	1	08/28/13 07:08
1,4-Dichlorobenzene		U	13	33	µg/Kg-dry	1	08/28/13 07:08
2-Butanone		U	81	220	µg/Kg-dry	1	08/28/13 07:08
2-Hexanone		U	8.0	33	µg/Kg-dry	1	08/28/13 07:08
4-Methyl-2-pentanone		U	11	33	µg/Kg-dry	1	08/28/13 07:08
Acetone		U	69	110	µg/Kg-dry	1	08/28/13 07:08
Benzene		U	13	33	µg/Kg-dry	1	08/28/13 07:08

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-153
Collection Date: 08/22/13 11:50 AM

Work Order: 1308937
Lab ID: 1308937-68
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromodichloromethane	U		7.4	33	µg/Kg-dry	1	08/28/13 07:08
Bromoform	U		6.5	33	µg/Kg-dry	1	08/28/13 07:08
Bromomethane	U		13	82	µg/Kg-dry	1	08/28/13 07:08
Carbon disulfide	U		16	33	µg/Kg-dry	1	08/28/13 07:08
Carbon tetrachloride	U		9.3	33	µg/Kg-dry	1	08/28/13 07:08
Chlorobenzene	U		13	33	µg/Kg-dry	1	08/28/13 07:08
Chloroethane	U		70	110	µg/Kg-dry	1	08/28/13 07:08
Chloroform	U		14	33	µg/Kg-dry	1	08/28/13 07:08
Chloromethane	U		18	110	µg/Kg-dry	1	08/28/13 07:08
cis-1,2-Dichloroethene	U		13	33	µg/Kg-dry	1	08/28/13 07:08
cis-1,3-Dichloropropene	U		11	33	µg/Kg-dry	1	08/28/13 07:08
Cyclohexane	U		15	33	µg/Kg-dry	1	08/28/13 07:08
Dibromochloromethane	U		6.1	33	µg/Kg-dry	1	08/28/13 07:08
Dichlorodifluoromethane	U		15	33	µg/Kg-dry	1	08/28/13 07:08
Ethylbenzene	U		12	33	µg/Kg-dry	1	08/28/13 07:08
Isopropylbenzene	U		14	33	µg/Kg-dry	1	08/28/13 07:08
Methyl acetate	U		44	220	µg/Kg-dry	1	08/28/13 07:08
Methyl tert-butyl ether	U		14	33	µg/Kg-dry	1	08/28/13 07:08
Methylcyclohexane	U		15	33	µg/Kg-dry	1	08/28/13 07:08
Methylene chloride	U		13	33	µg/Kg-dry	1	08/28/13 07:08
Styrene	U		12	33	µg/Kg-dry	1	08/28/13 07:08
Tetrachloroethene	U		15	33	µg/Kg-dry	1	08/28/13 07:08
Toluene	U		12	33	µg/Kg-dry	1	08/28/13 07:08
trans-1,2-Dichloroethene	U		10	33	µg/Kg-dry	1	08/28/13 07:08
trans-1,3-Dichloropropene	U		11	33	µg/Kg-dry	1	08/28/13 07:08
Trichloroethene	U		15	33	µg/Kg-dry	1	08/28/13 07:08
Trichlorofluoromethane	U		9.0	33	µg/Kg-dry	1	08/28/13 07:08
Vinyl chloride	U		15	33	µg/Kg-dry	1	08/28/13 07:08
Xylenes, Total	U		39	98	µg/Kg-dry	1	08/28/13 07:08
Surr: 1,2-Dichloroethane-d4	99.8			70-130	%REC	1	08/28/13 07:08
Surr: 4-Bromofluorobenzene	97.8			70-130	%REC	1	08/28/13 07:08
Surr: Dibromofluoromethane	98.5			70-130	%REC	1	08/28/13 07:08
Surr: Toluene-d8	100			70-130	%REC	1	08/28/13 07:08

MOISTURE

A2540 G

Analyst: RLF

BatchID: R125842

Moisture	3.7	0.025	0.050	% of sample	1	08/28/13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-154
Collection Date: 08/22/13 01:10 PM

Work Order: 1308937
Lab ID: 1308937-69
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Prep: SW3541 / 8/28/13	Analyst: JD
<u>BatchID: 50887</u>							
Aroclor 1016	U		36	330	µg/Kg-dry	1	08/29/13 20:35
Aroclor 1221	U		36	330	µg/Kg-dry	1	08/29/13 20:35
Aroclor 1232	U		36	330	µg/Kg-dry	1	08/29/13 20:35
Aroclor 1242	U		36	330	µg/Kg-dry	1	08/29/13 20:35
Aroclor 1248	U		36	330	µg/Kg-dry	1	08/29/13 20:35
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/29/13 20:35
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/29/13 20:35
Surr: Decachlorobiphenyl	82.1			40-140	%REC	1	08/29/13 20:35
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/30/13	Analyst: LR
<u>BatchID: 50941</u>							
Mercury	0.0096	J	0.00072	0.036	mg/Kg-dry	1	08/30/13 14:17
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/28/13	Analyst: ML
<u>BatchID: 50876</u>							
Antimony	0.098	J	0.0015	0.36	mg/Kg-dry	1	08/29/13 20:33
Arsenic	1.3		0.049	0.36	mg/Kg-dry	1	08/29/13 20:33
Barium	15		0.010	0.87	mg/Kg-dry	1	08/29/13 20:33
Beryllium	0.085	J	0.0029	0.15	mg/Kg-dry	1	08/29/13 20:33
Cadmium	0.048	J	0.0015	0.15	mg/Kg-dry	1	08/29/13 20:33
Chromium	4.0		0.060	0.36	mg/Kg-dry	1	08/29/13 20:33
Cobalt	1.7		0.0015	0.36	mg/Kg-dry	1	08/29/13 20:33
Copper	4.1		0.071	0.36	mg/Kg-dry	1	08/29/13 20:33
Iron	4,200		1.2	36	mg/Kg-dry	1	08/29/13 20:33
Lead	5.5		0.0015	0.73	mg/Kg-dry	1	08/29/13 20:33
Manganese	130		0.032	1.0	mg/Kg-dry	1	08/29/13 20:33
Molybdenum	0.18	J	0.016	0.36	mg/Kg-dry	1	08/29/13 20:33
Nickel	3.6		0.036	0.36	mg/Kg-dry	1	08/29/13 20:33
Selenium	0.21	J	0.046	0.36	mg/Kg-dry	1	08/29/13 20:33
Silver	0.0021	J	0.0015	0.36	mg/Kg-dry	1	08/29/13 20:33
Thallium	0.041	J	0.0087	0.36	mg/Kg-dry	1	08/29/13 20:33
Vanadium	7.2		0.022	0.36	mg/Kg-dry	1	08/29/13 20:33
Zinc	9.8		0.030	0.73	mg/Kg-dry	1	08/29/13 20:33
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/27/13	Analyst: RM
<u>BatchID: 50858</u>							
2-Methylnaphthalene	U		10	84	µg/Kg-dry	1	08/28/13 13:20
Acenaphthene	U		9.5	31	µg/Kg-dry	1	08/28/13 13:20
Acenaphthylene	U		9.9	31	µg/Kg-dry	1	08/28/13 13:20

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-154
Collection Date: 08/22/13 01:10 PM

Work Order: 1308937
Lab ID: 1308937-69
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	44		11	31	µg/Kg-dry	1	08/28/13 13:20
Benzo(a)anthracene	81		13	31	µg/Kg-dry	1	08/28/13 13:20
Benzo(a)pyrene	120		16	31	µg/Kg-dry	1	08/28/13 13:20
Benzo(b)fluoranthene	150		17	31	µg/Kg-dry	1	08/28/13 13:20
Benzo(g,h,i)perylene	130		25	31	µg/Kg-dry	1	08/28/13 13:20
Benzo(k)fluoranthene	72		14	31	µg/Kg-dry	1	08/28/13 13:20
Chrysene	78		12	31	µg/Kg-dry	1	08/28/13 13:20
Dibenzo(a,h)anthracene	76		18	31	µg/Kg-dry	1	08/28/13 13:20
Fluoranthene	150		12	31	µg/Kg-dry	1	08/28/13 13:20
Fluorene	U		9.1	31	µg/Kg-dry	1	08/28/13 13:20
Indeno(1,2,3-cd)pyrene	120		20	31	µg/Kg-dry	1	08/28/13 13:20
Naphthalene	U		8.9	31	µg/Kg-dry	1	08/28/13 13:20
Phenanthrene	61		31	31	µg/Kg-dry	1	08/28/13 13:20
Pyrene	140		13	31	µg/Kg-dry	1	08/28/13 13:20
Surr: 2-Fluorobiphenyl	84.9			12-100	%REC	1	08/28/13 13:20
Surr: 4-Terphenyl-d14	111			25-137	%REC	1	08/28/13 13:20
Surr: Nitrobenzene-d5	77.8			37-107	%REC	1	08/28/13 13:20

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 8/27/13

Analyst: RS

BatchID: 50856

1,1,1-Trichloroethane	U	12	32	µg/Kg-dry	1	08/28/13 07:35
1,1,2,2-Tetrachloroethane	U	14	32	µg/Kg-dry	1	08/28/13 07:35
1,1,2-Trichloroethane	U	11	32	µg/Kg-dry	1	08/28/13 07:35
1,1,2-Trichlorotrifluoroethane	U	12	32	µg/Kg-dry	1	08/28/13 07:35
1,1-Dichloroethane	U	12	32	µg/Kg-dry	1	08/28/13 07:35
1,1-Dichloroethene	U	14	32	µg/Kg-dry	1	08/28/13 07:35
1,2,4-Trichlorobenzene	U	17	32	µg/Kg-dry	1	08/28/13 07:35
1,2-Dibromo-3-chloropropane	U	16	32	µg/Kg-dry	1	08/28/13 07:35
1,2-Dibromoethane	U	13	32	µg/Kg-dry	1	08/28/13 07:35
1,2-Dichlorobenzene	U	13	32	µg/Kg-dry	1	08/28/13 07:35
1,2-Dichloroethane	U	15	32	µg/Kg-dry	1	08/28/13 07:35
1,2-Dichloropropane	U	11	32	µg/Kg-dry	1	08/28/13 07:35
1,3-Dichlorobenzene	U	13	32	µg/Kg-dry	1	08/28/13 07:35
1,4-Dichlorobenzene	U	12	32	µg/Kg-dry	1	08/28/13 07:35
2-Butanone	U	80	210	µg/Kg-dry	1	08/28/13 07:35
2-Hexanone	U	7.9	32	µg/Kg-dry	1	08/28/13 07:35
4-Methyl-2-pentanone	U	11	32	µg/Kg-dry	1	08/28/13 07:35
Acetone	U	68	110	µg/Kg-dry	1	08/28/13 07:35
Benzene	U	13	32	µg/Kg-dry	1	08/28/13 07:35
Bromodichloromethane	U	7.2	32	µg/Kg-dry	1	08/28/13 07:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-154
Collection Date: 08/22/13 01:10 PM

Work Order: 1308937
Lab ID: 1308937-69
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		6.3	32	µg/Kg-dry	1	08/28/13 07:35
Bromomethane	U		12	80	µg/Kg-dry	1	08/28/13 07:35
Carbon disulfide	U		16	32	µg/Kg-dry	1	08/28/13 07:35
Carbon tetrachloride	U		9.2	32	µg/Kg-dry	1	08/28/13 07:35
Chlorobenzene	U		13	32	µg/Kg-dry	1	08/28/13 07:35
Chloroethane	U		68	110	µg/Kg-dry	1	08/28/13 07:35
Chloroform	U		13	32	µg/Kg-dry	1	08/28/13 07:35
Chloromethane	U		18	110	µg/Kg-dry	1	08/28/13 07:35
cis-1,2-Dichloroethene	U		13	32	µg/Kg-dry	1	08/28/13 07:35
cis-1,3-Dichloropropene	U		11	32	µg/Kg-dry	1	08/28/13 07:35
Cyclohexane	U		14	32	µg/Kg-dry	1	08/28/13 07:35
Dibromochloromethane	U		6.0	32	µg/Kg-dry	1	08/28/13 07:35
Dichlorodifluoromethane	U		15	32	µg/Kg-dry	1	08/28/13 07:35
Ethylbenzene	U		12	32	µg/Kg-dry	1	08/28/13 07:35
Isopropylbenzene	U		14	32	µg/Kg-dry	1	08/28/13 07:35
Methyl acetate	U		43	210	µg/Kg-dry	1	08/28/13 07:35
Methyl tert-butyl ether	U		14	32	µg/Kg-dry	1	08/28/13 07:35
Methylcyclohexane	U		15	32	µg/Kg-dry	1	08/28/13 07:35
Methylene chloride	U		13	32	µg/Kg-dry	1	08/28/13 07:35
Styrene	U		12	32	µg/Kg-dry	1	08/28/13 07:35
Tetrachloroethene	U		14	32	µg/Kg-dry	1	08/28/13 07:35
Toluene	U		12	32	µg/Kg-dry	1	08/28/13 07:35
trans-1,2-Dichloroethene	U		9.9	32	µg/Kg-dry	1	08/28/13 07:35
trans-1,3-Dichloropropene	U		11	32	µg/Kg-dry	1	08/28/13 07:35
Trichloroethene	U		15	32	µg/Kg-dry	1	08/28/13 07:35
Trichlorofluoromethane	U		8.9	32	µg/Kg-dry	1	08/28/13 07:35
Vinyl chloride	U		15	32	µg/Kg-dry	1	08/28/13 07:35
Xylenes, Total	U		38	97	µg/Kg-dry	1	08/28/13 07:35
Surr: 1,2-Dichloroethane-d4	102			70-130	%REC	1	08/28/13 07:35
Surr: 4-Bromofluorobenzene	96.2			70-130	%REC	1	08/28/13 07:35
Surr: Dibromofluoromethane	96.8			70-130	%REC	1	08/28/13 07:35
Surr: Toluene-d8	99.5			70-130	%REC	1	08/28/13 07:35

MOISTURE

A2540 G

Analyst: RLF

BatchID: R125842

Moisture	5.5	0.025	0.050	% of sample	1	08/28/13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-155
Collection Date: 08/22/13 01:15 PM

Work Order: 1308937
Lab ID: 1308937-70
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Prep: SW3541 / 8/28/13	Analyst: JD
<u>BatchID: 50887</u>							
Aroclor 1016	U		35	330	µg/Kg-dry	1	08/29/13 21:16
Aroclor 1221	U		35	330	µg/Kg-dry	1	08/29/13 21:16
Aroclor 1232	U		35	330	µg/Kg-dry	1	08/29/13 21:16
Aroclor 1242	U		35	330	µg/Kg-dry	1	08/29/13 21:16
Aroclor 1248	U		35	330	µg/Kg-dry	1	08/29/13 21:16
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/29/13 21:16
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/29/13 21:16
Surr: Decachlorobiphenyl	75.1			40-140	%REC	1	08/29/13 21:16
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/30/13	Analyst: LR
<u>BatchID: 50941</u>							
Mercury	0.0035	J	0.00049	0.024	mg/Kg-dry	1	08/30/13 14:30
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/28/13	Analyst: ML
<u>BatchID: 50876</u>							
Antimony	0.055	J	0.0012	0.30	mg/Kg-dry	1	08/29/13 20:52
Arsenic	1.8		0.040	0.30	mg/Kg-dry	1	08/29/13 20:52
Barium	5.5		0.0083	0.71	mg/Kg-dry	1	08/29/13 20:52
Beryllium	0.042	J	0.0024	0.12	mg/Kg-dry	1	08/29/13 20:52
Cadmium	0.027	J	0.0012	0.12	mg/Kg-dry	1	08/29/13 20:52
Chromium	5.8		0.048	0.30	mg/Kg-dry	1	08/29/13 20:52
Cobalt	1.9		0.0012	0.30	mg/Kg-dry	1	08/29/13 20:52
Copper	4.0		0.058	0.30	mg/Kg-dry	1	08/29/13 20:52
Iron	4,500		0.98	30	mg/Kg-dry	1	08/29/13 20:52
Lead	2.6		0.0012	0.59	mg/Kg-dry	1	08/29/13 20:52
Molybdenum	0.22	J	0.013	0.30	mg/Kg-dry	1	08/29/13 20:52
Nickel	4.4		0.030	0.30	mg/Kg-dry	1	08/29/13 20:52
Selenium	0.19	J	0.038	0.30	mg/Kg-dry	1	08/29/13 20:52
Silver	0.010	J	0.0012	0.30	mg/Kg-dry	1	08/29/13 20:52
Thallium	0.070	J	0.0071	0.30	mg/Kg-dry	1	08/29/13 20:52
Vanadium	7.9		0.018	0.30	mg/Kg-dry	1	08/29/13 20:52
Zinc	7.3		0.025	0.59	mg/Kg-dry	1	08/29/13 20:52
<u>BatchID: 50876</u>							
Manganese	130		0.26	3.0	mg/Kg-dry	10	08/30/13 15:01
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/27/13	Analyst: RM
<u>BatchID: 50858</u>							
2-Methylnaphthalene	U		10	82	µg/Kg-dry	1	08/28/13 13:40
Acenaphthene	U		9.4	31	µg/Kg-dry	1	08/28/13 13:40

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-155
Collection Date: 08/22/13 01:15 PM

Work Order: 1308937
Lab ID: 1308937-70
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	U		9.7	31	µg/Kg-dry	1	08/28/13 13:40
Anthracene	U		10	31	µg/Kg-dry	1	08/28/13 13:40
Benzo(a)anthracene	U		13	31	µg/Kg-dry	1	08/28/13 13:40
Benzo(a)pyrene	U		16	31	µg/Kg-dry	1	08/28/13 13:40
Benzo(b)fluoranthene	U		17	31	µg/Kg-dry	1	08/28/13 13:40
Benzo(g,h,i)perylene	U		24	31	µg/Kg-dry	1	08/28/13 13:40
Benzo(k)fluoranthene	U		14	31	µg/Kg-dry	1	08/28/13 13:40
Chrysene	U		12	31	µg/Kg-dry	1	08/28/13 13:40
Dibenzo(a,h)anthracene	U		18	31	µg/Kg-dry	1	08/28/13 13:40
Fluoranthene	U		12	31	µg/Kg-dry	1	08/28/13 13:40
Fluorene	U		9.0	31	µg/Kg-dry	1	08/28/13 13:40
Indeno(1,2,3-cd)pyrene	U		19	31	µg/Kg-dry	1	08/28/13 13:40
Naphthalene	U		8.8	31	µg/Kg-dry	1	08/28/13 13:40
Phenanthrene	U		31	31	µg/Kg-dry	1	08/28/13 13:40
Pyrene	U		13	31	µg/Kg-dry	1	08/28/13 13:40
Surr: 2-Fluorobiphenyl	94.1			12-100	%REC	1	08/28/13 13:40
Surr: 4-Terphenyl-d14	112			25-137	%REC	1	08/28/13 13:40
Surr: Nitrobenzene-d5	81.2			37-107	%REC	1	08/28/13 13:40

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 8/27/13

Analyst: RS

BatchID: 50856

1,1,1-Trichloroethane	U		14	37	µg/Kg-dry	1	08/28/13 08:02
1,1,2,2-Tetrachloroethane	U		16	37	µg/Kg-dry	1	08/28/13 08:02
1,1,2-Trichloroethane	U		13	37	µg/Kg-dry	1	08/28/13 08:02
1,1,2-Trichlorotrifluoroethane	U		14	37	µg/Kg-dry	1	08/28/13 08:02
1,1-Dichloroethane	U		13	37	µg/Kg-dry	1	08/28/13 08:02
1,1-Dichloroethene	U		15	37	µg/Kg-dry	1	08/28/13 08:02
1,2,4-Trichlorobenzene	U		19	37	µg/Kg-dry	1	08/28/13 08:02
1,2-Dibromo-3-chloropropane	U		18	37	µg/Kg-dry	1	08/28/13 08:02
1,2-Dibromoethane	U		15	37	µg/Kg-dry	1	08/28/13 08:02
1,2-Dichlorobenzene	U		15	37	µg/Kg-dry	1	08/28/13 08:02
1,2-Dichloroethane	U		17	37	µg/Kg-dry	1	08/28/13 08:02
1,2-Dichloropropane	U		12	37	µg/Kg-dry	1	08/28/13 08:02
1,3-Dichlorobenzene	U		15	37	µg/Kg-dry	1	08/28/13 08:02
1,4-Dichlorobenzene	U		14	37	µg/Kg-dry	1	08/28/13 08:02
2-Butanone	U		91	250	µg/Kg-dry	1	08/28/13 08:02
2-Hexanone	U		9.0	37	µg/Kg-dry	1	08/28/13 08:02
4-Methyl-2-pentanone	U		12	37	µg/Kg-dry	1	08/28/13 08:02
Acetone	U		78	120	µg/Kg-dry	1	08/28/13 08:02
Benzene	U		15	37	µg/Kg-dry	1	08/28/13 08:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-155
Collection Date: 08/22/13 01:15 PM

Work Order: 1308937
Lab ID: 1308937-70
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromodichloromethane	U		8.3	37	µg/Kg-dry	1	08/28/13 08:02
Bromoform	U		7.3	37	µg/Kg-dry	1	08/28/13 08:02
Bromomethane	U		14	92	µg/Kg-dry	1	08/28/13 08:02
Carbon disulfide	U		18	37	µg/Kg-dry	1	08/28/13 08:02
Carbon tetrachloride	U		10	37	µg/Kg-dry	1	08/28/13 08:02
Chlorobenzene	U		15	37	µg/Kg-dry	1	08/28/13 08:02
Chloroethane	U		78	120	µg/Kg-dry	1	08/28/13 08:02
Chloroform	U		15	37	µg/Kg-dry	1	08/28/13 08:02
Chloromethane	U		20	120	µg/Kg-dry	1	08/28/13 08:02
cis-1,2-Dichloroethene	U		15	37	µg/Kg-dry	1	08/28/13 08:02
cis-1,3-Dichloropropene	U		13	37	µg/Kg-dry	1	08/28/13 08:02
Cyclohexane	U		17	37	µg/Kg-dry	1	08/28/13 08:02
Dibromochloromethane	U		6.8	37	µg/Kg-dry	1	08/28/13 08:02
Dichlorodifluoromethane	U		17	37	µg/Kg-dry	1	08/28/13 08:02
Ethylbenzene	U		14	37	µg/Kg-dry	1	08/28/13 08:02
Isopropylbenzene	U		16	37	µg/Kg-dry	1	08/28/13 08:02
Methyl acetate	U		49	250	µg/Kg-dry	1	08/28/13 08:02
Methyl tert-butyl ether	U		16	37	µg/Kg-dry	1	08/28/13 08:02
Methylcyclohexane	U		17	37	µg/Kg-dry	1	08/28/13 08:02
Methylene chloride	U		14	37	µg/Kg-dry	1	08/28/13 08:02
Styrene	U		14	37	µg/Kg-dry	1	08/28/13 08:02
Tetrachloroethene	U		16	37	µg/Kg-dry	1	08/28/13 08:02
Toluene	U		14	37	µg/Kg-dry	1	08/28/13 08:02
trans-1,2-Dichloroethene	U		11	37	µg/Kg-dry	1	08/28/13 08:02
trans-1,3-Dichloropropene	U		12	37	µg/Kg-dry	1	08/28/13 08:02
Trichloroethene	U		17	37	µg/Kg-dry	1	08/28/13 08:02
Trichlorofluoromethane	U		10	37	µg/Kg-dry	1	08/28/13 08:02
Vinyl chloride	U		17	37	µg/Kg-dry	1	08/28/13 08:02
Xylenes, Total	U		43	110	µg/Kg-dry	1	08/28/13 08:02
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	08/28/13 08:02
Surr: 4-Bromofluorobenzene	98.6			70-130	%REC	1	08/28/13 08:02
Surr: Dibromofluoromethane	99.4			70-130	%REC	1	08/28/13 08:02
Surr: Toluene-d8	99.4			70-130	%REC	1	08/28/13 08:02

MOISTURE

A2540 G

Analyst: RLF

BatchID: R125842

Moisture	2.9	0.025	0.050	% of sample	1	08/28/13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-156
Collection Date: 08/22/13 01:20 PM

Work Order: 1308937
Lab ID: 1308937-71
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 8/28/13		Analyst: JD
<u>BatchID: 50887</u>							
Aroclor 1016	U		35	320	µg/Kg-dry	1	08/29/13 21:30
Aroclor 1221	U		35	320	µg/Kg-dry	1	08/29/13 21:30
Aroclor 1232	U		35	320	µg/Kg-dry	1	08/29/13 21:30
Aroclor 1242	U		35	320	µg/Kg-dry	1	08/29/13 21:30
Aroclor 1248	U		35	320	µg/Kg-dry	1	08/29/13 21:30
Aroclor 1254	U		11	320	µg/Kg-dry	1	08/29/13 21:30
Aroclor 1260	U		11	320	µg/Kg-dry	1	08/29/13 21:30
Surr: Decachlorobiphenyl	75.1			40-140	%REC	1	08/29/13 21:30
MERCURY BY CVAA							
			SW7471		Prep: SW7471 / 8/30/13		Analyst: LR
<u>BatchID: 50941</u>							
Mercury	0.0037	J	0.00055	0.028	mg/Kg-dry	1	08/30/13 14:32
METALS BY ICP-MS							
			SW6020A		Prep: SW3050B / 8/28/13		Analyst: ML
<u>BatchID: 50876</u>							
Antimony	0.057	J	0.0012	0.30	mg/Kg-dry	1	08/29/13 21:17
Arsenic	2.0		0.041	0.30	mg/Kg-dry	1	08/29/13 21:17
Barium	6.3		0.0084	0.72	mg/Kg-dry	1	08/29/13 21:17
Beryllium	0.058	J	0.0024	0.12	mg/Kg-dry	1	08/29/13 21:17
Cadmium	0.033	J	0.0012	0.12	mg/Kg-dry	1	08/29/13 21:17
Chromium	5.6		0.049	0.30	mg/Kg-dry	1	08/29/13 21:17
Cobalt	2.2		0.0012	0.30	mg/Kg-dry	1	08/29/13 21:17
Copper	6.5		0.059	0.30	mg/Kg-dry	1	08/29/13 21:17
Iron	5,400		1.0	30	mg/Kg-dry	1	08/29/13 21:17
Molybdenum	0.29	J	0.013	0.30	mg/Kg-dry	1	08/29/13 21:17
Nickel	5.5		0.030	0.30	mg/Kg-dry	1	08/29/13 21:17
Selenium	0.27	J	0.039	0.30	mg/Kg-dry	1	08/29/13 21:17
Silver	0.0051	J	0.0012	0.30	mg/Kg-dry	1	08/29/13 21:17
Vanadium	8.2		0.018	0.30	mg/Kg-dry	1	08/29/13 21:17
Zinc	11		0.025	0.60	mg/Kg-dry	1	08/29/13 21:17
<u>BatchID: 50876</u>							
Lead	2.8		0.0060	1.5	mg/Kg-dry	5	09/04/13 00:35
Manganese	180		0.13	1.5	mg/Kg-dry	5	09/04/13 00:35
Thallium	U		0.036	1.5	mg/Kg-dry	5	09/04/13 00:35
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270		Prep: SW3541 / 8/27/13		Analyst: RM
<u>BatchID: 50858</u>							
2-Methylnaphthalene	U		9.9	81	µg/Kg-dry	1	08/28/13 13:59
Acenaphthene	U		9.2	30	µg/Kg-dry	1	08/28/13 13:59

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-156
Collection Date: 08/22/13 01:20 PM

Work Order: 1308937
Lab ID: 1308937-71
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene		U	9.6	30	µg/Kg-dry	1	08/28/13 13:59
Anthracene		U	10	30	µg/Kg-dry	1	08/28/13 13:59
Benzo(a)anthracene		U	12	30	µg/Kg-dry	1	08/28/13 13:59
Benzo(a)pyrene		U	16	30	µg/Kg-dry	1	08/28/13 13:59
Benzo(b)fluoranthene		U	16	30	µg/Kg-dry	1	08/28/13 13:59
Benzo(g,h,i)perylene		U	24	30	µg/Kg-dry	1	08/28/13 13:59
Benzo(k)fluoranthene		U	14	30	µg/Kg-dry	1	08/28/13 13:59
Chrysene		U	11	30	µg/Kg-dry	1	08/28/13 13:59
Dibenzo(a,h)anthracene		U	17	30	µg/Kg-dry	1	08/28/13 13:59
Fluoranthene		U	12	30	µg/Kg-dry	1	08/28/13 13:59
Fluorene		U	8.8	30	µg/Kg-dry	1	08/28/13 13:59
Indeno(1,2,3-cd)pyrene		U	19	30	µg/Kg-dry	1	08/28/13 13:59
Naphthalene		U	8.6	30	µg/Kg-dry	1	08/28/13 13:59
Phenanthrene		U	30	30	µg/Kg-dry	1	08/28/13 13:59
Pyrene		U	13	30	µg/Kg-dry	1	08/28/13 13:59
Surr: 2-Fluorobiphenyl	91.9			12-100	%REC	1	08/28/13 13:59
Surr: 4-Terphenyl-d14	115			25-137	%REC	1	08/28/13 13:59
Surr: Nitrobenzene-d5	71.8			37-107	%REC	1	08/28/13 13:59
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/27/13		Analyst: RS
BatchID: 50856							
1,1,1-Trichloroethane		U	12	31	µg/Kg-dry	1	08/28/13 08:29
1,1,2,2-Tetrachloroethane		U	14	31	µg/Kg-dry	1	08/28/13 08:29
1,1,2-Trichloroethane		U	11	31	µg/Kg-dry	1	08/28/13 08:29
1,1,2-Trichlorotrifluoroethane		U	11	31	µg/Kg-dry	1	08/28/13 08:29
1,1-Dichloroethane		U	11	31	µg/Kg-dry	1	08/28/13 08:29
1,1-Dichloroethene		U	13	31	µg/Kg-dry	1	08/28/13 08:29
1,2,4-Trichlorobenzene		U	16	31	µg/Kg-dry	1	08/28/13 08:29
1,2-Dibromo-3-chloropropane		U	15	31	µg/Kg-dry	1	08/28/13 08:29
1,2-Dibromoethane		U	12	31	µg/Kg-dry	1	08/28/13 08:29
1,2-Dichlorobenzene		U	12	31	µg/Kg-dry	1	08/28/13 08:29
1,2-Dichloroethane		U	15	31	µg/Kg-dry	1	08/28/13 08:29
1,2-Dichloropropane		U	10	31	µg/Kg-dry	1	08/28/13 08:29
1,3-Dichlorobenzene		U	12	31	µg/Kg-dry	1	08/28/13 08:29
1,4-Dichlorobenzene		U	12	31	µg/Kg-dry	1	08/28/13 08:29
2-Butanone		U	76	210	µg/Kg-dry	1	08/28/13 08:29
2-Hexanone		U	7.6	31	µg/Kg-dry	1	08/28/13 08:29
4-Methyl-2-pentanone		U	10	31	µg/Kg-dry	1	08/28/13 08:29
Acetone		U	65	100	µg/Kg-dry	1	08/28/13 08:29
Benzene		U	12	31	µg/Kg-dry	1	08/28/13 08:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-156
Collection Date: 08/22/13 01:20 PM

Work Order: 1308937
Lab ID: 1308937-71
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromodichloromethane	U		6.9	31	µg/Kg-dry	1	08/28/13 08:29
Bromoform	U		6.1	31	µg/Kg-dry	1	08/28/13 08:29
Bromomethane	U		12	77	µg/Kg-dry	1	08/28/13 08:29
Carbon disulfide	U		15	31	µg/Kg-dry	1	08/28/13 08:29
Carbon tetrachloride	U		8.8	31	µg/Kg-dry	1	08/28/13 08:29
Chlorobenzene	U		13	31	µg/Kg-dry	1	08/28/13 08:29
Chloroethane	U		65	100	µg/Kg-dry	1	08/28/13 08:29
Chloroform	U		13	31	µg/Kg-dry	1	08/28/13 08:29
Chloromethane	U		17	100	µg/Kg-dry	1	08/28/13 08:29
cis-1,2-Dichloroethene	U		13	31	µg/Kg-dry	1	08/28/13 08:29
cis-1,3-Dichloropropene	U		11	31	µg/Kg-dry	1	08/28/13 08:29
Cyclohexane	U		14	31	µg/Kg-dry	1	08/28/13 08:29
Dibromochloromethane	U		5.7	31	µg/Kg-dry	1	08/28/13 08:29
Dichlorodifluoromethane	U		14	31	µg/Kg-dry	1	08/28/13 08:29
Ethylbenzene	U		11	31	µg/Kg-dry	1	08/28/13 08:29
Isopropylbenzene	U		13	31	µg/Kg-dry	1	08/28/13 08:29
Methyl acetate	U		41	210	µg/Kg-dry	1	08/28/13 08:29
Methyl tert-butyl ether	U		13	31	µg/Kg-dry	1	08/28/13 08:29
Methylcyclohexane	U		14	31	µg/Kg-dry	1	08/28/13 08:29
Methylene chloride	U		12	31	µg/Kg-dry	1	08/28/13 08:29
Styrene	U		11	31	µg/Kg-dry	1	08/28/13 08:29
Tetrachloroethene	U		14	31	µg/Kg-dry	1	08/28/13 08:29
Toluene	U		12	31	µg/Kg-dry	1	08/28/13 08:29
trans-1,2-Dichloroethene	U		9.5	31	µg/Kg-dry	1	08/28/13 08:29
trans-1,3-Dichloropropene	U		10	31	µg/Kg-dry	1	08/28/13 08:29
Trichloroethene	U		14	31	µg/Kg-dry	1	08/28/13 08:29
Trichlorofluoromethane	U		8.5	31	µg/Kg-dry	1	08/28/13 08:29
Vinyl chloride	U		14	31	µg/Kg-dry	1	08/28/13 08:29
Xylenes, Total	U		36	93	µg/Kg-dry	1	08/28/13 08:29
Surr: 1,2-Dichloroethane-d4	102			70-130	%REC	1	08/28/13 08:29
Surr: 4-Bromofluorobenzene	101			70-130	%REC	1	08/28/13 08:29
Surr: Dibromofluoromethane	98.4			70-130	%REC	1	08/28/13 08:29
Surr: Toluene-d8	101			70-130	%REC	1	08/28/13 08:29

MOISTURE

A2540 G

Analyst: RLF

BatchID: R125842

Moisture	2.7	0.025	0.050	% of sample	1	08/28/13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-157
Collection Date: 08/22/13 02:40 PM

Work Order: 1308937
Lab ID: 1308937-72
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Prep: SW3541 / 8/28/13	Analyst: JD
<u>BatchID: 50887</u>							
Aroclor 1016	U		37	340	µg/Kg-dry	1	08/29/13 21:43
Aroclor 1221	U		37	340	µg/Kg-dry	1	08/29/13 21:43
Aroclor 1232	U		37	340	µg/Kg-dry	1	08/29/13 21:43
Aroclor 1242	U		37	340	µg/Kg-dry	1	08/29/13 21:43
Aroclor 1248	U		37	340	µg/Kg-dry	1	08/29/13 21:43
Aroclor 1254	U		11	340	µg/Kg-dry	1	08/29/13 21:43
Aroclor 1260	U		11	340	µg/Kg-dry	1	08/29/13 21:43
Surr: Decachlorobiphenyl	74.1			40-140	%REC	1	08/29/13 21:43
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/30/13	Analyst: LR
<u>BatchID: 50941</u>							
Mercury	0.011	J	0.00068	0.034	mg/Kg-dry	1	08/30/13 14:34
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/28/13	Analyst: ML
<u>BatchID: 50876</u>							
Antimony	0.13	J	0.0014	0.35	mg/Kg-dry	1	08/29/13 21:23
Arsenic	2.3		0.047	0.35	mg/Kg-dry	1	08/29/13 21:23
Barium	21		0.0097	0.83	mg/Kg-dry	1	08/29/13 21:23
Beryllium	0.11	J	0.0028	0.14	mg/Kg-dry	1	08/29/13 21:23
Cadmium	0.069	J	0.0014	0.14	mg/Kg-dry	1	08/29/13 21:23
Chromium	4.4		0.057	0.35	mg/Kg-dry	1	08/29/13 21:23
Cobalt	1.7		0.0014	0.35	mg/Kg-dry	1	08/29/13 21:23
Copper	4.1		0.068	0.35	mg/Kg-dry	1	08/29/13 21:23
Iron	4,200		1.2	35	mg/Kg-dry	1	08/29/13 21:23
Lead	5.3		0.0014	0.35	mg/Kg-dry	1	08/30/13 15:14
Manganese	110		0.030	0.83	mg/Kg-dry	1	08/29/13 21:23
Molybdenum	0.26	J	0.015	0.35	mg/Kg-dry	1	08/29/13 21:23
Nickel	4.0		0.035	0.35	mg/Kg-dry	1	08/29/13 21:23
Selenium	0.26	J	0.044	0.35	mg/Kg-dry	1	08/29/13 21:23
Silver	0.0036	J	0.0014	0.35	mg/Kg-dry	1	08/29/13 21:23
Thallium	0.042	J	0.0083	0.35	mg/Kg-dry	1	08/30/13 15:14
Vanadium	7.4		0.021	0.35	mg/Kg-dry	1	08/29/13 21:23
Zinc	10		0.029	0.69	mg/Kg-dry	1	08/29/13 21:23
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/27/13	Analyst: RM
<u>BatchID: 50858</u>							
2-Methylnaphthalene	U		100	850	µg/Kg-dry	10	08/28/13 21:00
Acenaphthene	U		97	320	µg/Kg-dry	10	08/28/13 21:00
Acenaphthylene	U		100	320	µg/Kg-dry	10	08/28/13 21:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-157
Collection Date: 08/22/13 02:40 PM

Work Order: 1308937
Lab ID: 1308937-72
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	460		110	320	µg/Kg-dry	10	08/28/13 21:00
Benzo(a)anthracene	580		130	320	µg/Kg-dry	10	08/28/13 21:00
Benzo(a)pyrene	1,000		160	320	µg/Kg-dry	10	08/28/13 21:00
Benzo(b)fluoranthene	1,000		170	320	µg/Kg-dry	10	08/28/13 21:00
Benzo(g,h,i)perylene	870		250	320	µg/Kg-dry	10	08/28/13 21:00
Benzo(k)fluoranthene	560		150	320	µg/Kg-dry	10	08/28/13 21:00
Chrysene	530		120	320	µg/Kg-dry	10	08/28/13 21:00
Dibenzo(a,h)anthracene	700		180	320	µg/Kg-dry	10	08/28/13 21:00
Fluoranthene	1,500		130	320	µg/Kg-dry	10	08/28/13 21:00
Fluorene	U		93	320	µg/Kg-dry	10	08/28/13 21:00
Indeno(1,2,3-cd)pyrene	760		200	320	µg/Kg-dry	10	08/28/13 21:00
Naphthalene	U		91	320	µg/Kg-dry	10	08/28/13 21:00
Phenanthrene	550		320	320	µg/Kg-dry	10	08/28/13 21:00
Pyrene	910		130	320	µg/Kg-dry	10	08/28/13 21:00
Surr: 2-Fluorobiphenyl	82.6			12-100	%REC	10	08/28/13 21:00
Surr: 4-Terphenyl-d14	106			25-137	%REC	10	08/28/13 21:00
Surr: Nitrobenzene-d5	88.4			37-107	%REC	10	08/28/13 21:00

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 8/27/13

Analyst: RS

BatchID: 50856

1,1,1-Trichloroethane	U	14	37	µg/Kg-dry	1	08/28/13 08:56
1,1,2,2-Tetrachloroethane	U	16	37	µg/Kg-dry	1	08/28/13 08:56
1,1,2-Trichloroethane	U	13	37	µg/Kg-dry	1	08/28/13 08:56
1,1,2-Trichlorotrifluoroethane	U	14	37	µg/Kg-dry	1	08/28/13 08:56
1,1-Dichloroethane	U	13	37	µg/Kg-dry	1	08/28/13 08:56
1,1-Dichloroethene	U	15	37	µg/Kg-dry	1	08/28/13 08:56
1,2,4-Trichlorobenzene	U	19	37	µg/Kg-dry	1	08/28/13 08:56
1,2-Dibromo-3-chloropropane	U	18	37	µg/Kg-dry	1	08/28/13 08:56
1,2-Dibromoethane	U	14	37	µg/Kg-dry	1	08/28/13 08:56
1,2-Dichlorobenzene	U	15	37	µg/Kg-dry	1	08/28/13 08:56
1,2-Dichloroethane	U	17	37	µg/Kg-dry	1	08/28/13 08:56
1,2-Dichloropropane	U	12	37	µg/Kg-dry	1	08/28/13 08:56
1,3-Dichlorobenzene	U	15	37	µg/Kg-dry	1	08/28/13 08:56
1,4-Dichlorobenzene	U	14	37	µg/Kg-dry	1	08/28/13 08:56
2-Butanone	U	91	240	µg/Kg-dry	1	08/28/13 08:56
2-Hexanone	U	9.0	37	µg/Kg-dry	1	08/28/13 08:56
4-Methyl-2-pentanone	U	12	37	µg/Kg-dry	1	08/28/13 08:56
Acetone	U	78	120	µg/Kg-dry	1	08/28/13 08:56
Benzene	U	15	37	µg/Kg-dry	1	08/28/13 08:56
Bromodichloromethane	U	8.2	37	µg/Kg-dry	1	08/28/13 08:56

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-157
Collection Date: 08/22/13 02:40 PM

Work Order: 1308937
Lab ID: 1308937-72
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		7.2	37	µg/Kg-dry	1	08/28/13 08:56
Bromomethane	U		14	92	µg/Kg-dry	1	08/28/13 08:56
Carbon disulfide	U		18	37	µg/Kg-dry	1	08/28/13 08:56
Carbon tetrachloride	U		10	37	µg/Kg-dry	1	08/28/13 08:56
Chlorobenzene	U		15	37	µg/Kg-dry	1	08/28/13 08:56
Chloroethane	U		78	120	µg/Kg-dry	1	08/28/13 08:56
Chloroform	U		15	37	µg/Kg-dry	1	08/28/13 08:56
Chloromethane	U		20	120	µg/Kg-dry	1	08/28/13 08:56
cis-1,2-Dichloroethene	U		15	37	µg/Kg-dry	1	08/28/13 08:56
cis-1,3-Dichloropropene	U		13	37	µg/Kg-dry	1	08/28/13 08:56
Cyclohexane	U		16	37	µg/Kg-dry	1	08/28/13 08:56
Dibromochloromethane	U		6.8	37	µg/Kg-dry	1	08/28/13 08:56
Dichlorodifluoromethane	U		17	37	µg/Kg-dry	1	08/28/13 08:56
Ethylbenzene	U		14	37	µg/Kg-dry	1	08/28/13 08:56
Isopropylbenzene	U		16	37	µg/Kg-dry	1	08/28/13 08:56
Methyl acetate	U		49	240	µg/Kg-dry	1	08/28/13 08:56
Methyl tert-butyl ether	U		16	37	µg/Kg-dry	1	08/28/13 08:56
Methylcyclohexane	48		17	37	µg/Kg-dry	1	08/28/13 08:56
Methylene chloride	U		14	37	µg/Kg-dry	1	08/28/13 08:56
Styrene	U		14	37	µg/Kg-dry	1	08/28/13 08:56
Tetrachloroethene	U		16	37	µg/Kg-dry	1	08/28/13 08:56
Toluene	15	J	14	37	µg/Kg-dry	1	08/28/13 08:56
trans-1,2-Dichloroethene	U		11	37	µg/Kg-dry	1	08/28/13 08:56
trans-1,3-Dichloropropene	U		12	37	µg/Kg-dry	1	08/28/13 08:56
Trichloroethene	46		17	37	µg/Kg-dry	1	08/28/13 08:56
Trichlorofluoromethane	U		10	37	µg/Kg-dry	1	08/28/13 08:56
Vinyl chloride	U		17	37	µg/Kg-dry	1	08/28/13 08:56
Xylenes, Total	U		43	110	µg/Kg-dry	1	08/28/13 08:56
Surr: 1,2-Dichloroethane-d4	100			70-130	%REC	1	08/28/13 08:56
Surr: 4-Bromofluorobenzene	99.6			70-130	%REC	1	08/28/13 08:56
Surr: Dibromofluoromethane	95.4			70-130	%REC	1	08/28/13 08:56
Surr: Toluene-d8	99.7			70-130	%REC	1	08/28/13 08:56

MOISTURE

A2540 G

Analyst: RLF

BatchID: R125842

Moisture	6.6	0.025	0.050	% of sample	1	08/28/13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-158
Collection Date: 08/22/13 03:05 PM

Work Order: 1308937
Lab ID: 1308937-73
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Prep: SW3541 / 8/28/13	Analyst: JD
<u>BatchID: 50887</u>							
Aroclor 1016	U		38	350	µg/Kg-dry	1	08/29/13 21:57
Aroclor 1221	U		38	350	µg/Kg-dry	1	08/29/13 21:57
Aroclor 1232	U		38	350	µg/Kg-dry	1	08/29/13 21:57
Aroclor 1242	U		38	350	µg/Kg-dry	1	08/29/13 21:57
Aroclor 1248	U		38	350	µg/Kg-dry	1	08/29/13 21:57
Aroclor 1254	U		12	350	µg/Kg-dry	1	08/29/13 21:57
Aroclor 1260	U		12	350	µg/Kg-dry	1	08/29/13 21:57
Surr: Decachlorobiphenyl	86.1			40-140	%REC	1	08/29/13 21:57
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/30/13	Analyst: LR
<u>BatchID: 50941</u>							
Mercury	0.0057	J	0.00066	0.033	mg/Kg-dry	1	08/30/13 14:36
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/28/13	Analyst: ML
<u>BatchID: 50876</u>							
Antimony	0.041	J	0.0010	0.26	mg/Kg-dry	1	08/29/13 21:29
Arsenic	1.8		0.035	0.26	mg/Kg-dry	1	08/29/13 21:29
Barium	7.0		0.0073	0.63	mg/Kg-dry	1	08/29/13 21:29
Beryllium	0.039	J	0.0021	0.10	mg/Kg-dry	1	08/29/13 21:29
Cadmium	0.032	J	0.0010	0.10	mg/Kg-dry	1	08/29/13 21:29
Chromium	5.9		0.043	0.26	mg/Kg-dry	1	08/29/13 21:29
Cobalt	2.5		0.0010	0.26	mg/Kg-dry	1	08/29/13 21:29
Copper	6.6		0.051	0.26	mg/Kg-dry	1	08/29/13 21:29
Iron	5,300		0.87	26	mg/Kg-dry	1	08/29/13 21:29
Molybdenum	0.12	J	0.011	0.26	mg/Kg-dry	1	08/29/13 21:29
Nickel	5.5		0.026	0.26	mg/Kg-dry	1	08/29/13 21:29
Selenium	0.24	J	0.033	0.26	mg/Kg-dry	1	08/29/13 21:29
Silver	0.0022	J	0.0010	0.26	mg/Kg-dry	1	08/29/13 21:29
Vanadium	8.3		0.016	0.26	mg/Kg-dry	1	08/29/13 21:29
Zinc	12		0.022	0.52	mg/Kg-dry	1	08/29/13 21:29
<u>BatchID: 50876</u>							
Lead	3.3		0.0052	1.3	mg/Kg-dry	5	08/30/13 15:20
Manganese	210		0.11	1.3	mg/Kg-dry	5	08/30/13 15:20
Thallium	U		0.031	1.3	mg/Kg-dry	5	08/30/13 15:20
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/27/13	Analyst: RM
<u>BatchID: 50858</u>							
2-Methylnaphthalene	U		10	84	µg/Kg-dry	1	08/28/13 14:19
Acenaphthene	U		9.6	32	µg/Kg-dry	1	08/28/13 14:19

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-158
Collection Date: 08/22/13 03:05 PM

Work Order: 1308937
Lab ID: 1308937-73
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene		U	9.9	32	µg/Kg-dry	1	08/28/13 14:19
Anthracene		U	11	32	µg/Kg-dry	1	08/28/13 14:19
Benzo(a)anthracene		U	13	32	µg/Kg-dry	1	08/28/13 14:19
Benzo(a)pyrene		U	16	32	µg/Kg-dry	1	08/28/13 14:19
Benzo(b)fluoranthene		U	17	32	µg/Kg-dry	1	08/28/13 14:19
Benzo(g,h,i)perylene		U	25	32	µg/Kg-dry	1	08/28/13 14:19
Benzo(k)fluoranthene		U	14	32	µg/Kg-dry	1	08/28/13 14:19
Chrysene		U	12	32	µg/Kg-dry	1	08/28/13 14:19
Dibenzo(a,h)anthracene		U	18	32	µg/Kg-dry	1	08/28/13 14:19
Fluoranthene	47		12	32	µg/Kg-dry	1	08/28/13 14:19
Fluorene		U	9.2	32	µg/Kg-dry	1	08/28/13 14:19
Indeno(1,2,3-cd)pyrene		U	20	32	µg/Kg-dry	1	08/28/13 14:19
Naphthalene		U	9.0	32	µg/Kg-dry	1	08/28/13 14:19
Phenanthrene		U	32	32	µg/Kg-dry	1	08/28/13 14:19
Pyrene	18	J	13	32	µg/Kg-dry	1	08/28/13 14:19
Surr: 2-Fluorobiphenyl	87.0			12-100	%REC	1	08/28/13 14:19
Surr: 4-Terphenyl-d14	123			25-137	%REC	1	08/28/13 14:19
Surr: Nitrobenzene-d5	74.9			37-107	%REC	1	08/28/13 14:19
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/27/13		Analyst: RS
BatchID: 50856							
1,1,1-Trichloroethane		U	13	33	µg/Kg-dry	1	08/28/13 09:23
1,1,2,2-Tetrachloroethane		U	14	33	µg/Kg-dry	1	08/28/13 09:23
1,1,2-Trichloroethane		U	12	33	µg/Kg-dry	1	08/28/13 09:23
1,1,2-Trichlorotrifluoroethane		U	12	33	µg/Kg-dry	1	08/28/13 09:23
1,1-Dichloroethane		U	12	33	µg/Kg-dry	1	08/28/13 09:23
1,1-Dichloroethene		U	14	33	µg/Kg-dry	1	08/28/13 09:23
1,2,4-Trichlorobenzene		U	17	33	µg/Kg-dry	1	08/28/13 09:23
1,2-Dibromo-3-chloropropane		U	16	33	µg/Kg-dry	1	08/28/13 09:23
1,2-Dibromoethane		U	13	33	µg/Kg-dry	1	08/28/13 09:23
1,2-Dichlorobenzene		U	13	33	µg/Kg-dry	1	08/28/13 09:23
1,2-Dichloroethane		U	16	33	µg/Kg-dry	1	08/28/13 09:23
1,2-Dichloropropane		U	11	33	µg/Kg-dry	1	08/28/13 09:23
1,3-Dichlorobenzene		U	13	33	µg/Kg-dry	1	08/28/13 09:23
1,4-Dichlorobenzene		U	13	33	µg/Kg-dry	1	08/28/13 09:23
2-Butanone		U	81	220	µg/Kg-dry	1	08/28/13 09:23
2-Hexanone		U	8.1	33	µg/Kg-dry	1	08/28/13 09:23
4-Methyl-2-pentanone		U	11	33	µg/Kg-dry	1	08/28/13 09:23
Acetone		U	70	110	µg/Kg-dry	1	08/28/13 09:23
Benzene		U	13	33	µg/Kg-dry	1	08/28/13 09:23

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-158
Collection Date: 08/22/13 03:05 PM

Work Order: 1308937
Lab ID: 1308937-73
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromodichloromethane	U		7.4	33	µg/Kg-dry	1	08/28/13 09:23
Bromoform	U		6.5	33	µg/Kg-dry	1	08/28/13 09:23
Bromomethane	U		13	82	µg/Kg-dry	1	08/28/13 09:23
Carbon disulfide	U		16	33	µg/Kg-dry	1	08/28/13 09:23
Carbon tetrachloride	U		9.4	33	µg/Kg-dry	1	08/28/13 09:23
Chlorobenzene	U		13	33	µg/Kg-dry	1	08/28/13 09:23
Chloroethane	U		70	110	µg/Kg-dry	1	08/28/13 09:23
Chloroform	U		14	33	µg/Kg-dry	1	08/28/13 09:23
Chloromethane	U		18	110	µg/Kg-dry	1	08/28/13 09:23
cis-1,2-Dichloroethene	U		13	33	µg/Kg-dry	1	08/28/13 09:23
cis-1,3-Dichloropropene	U		11	33	µg/Kg-dry	1	08/28/13 09:23
Cyclohexane	U		15	33	µg/Kg-dry	1	08/28/13 09:23
Dibromochloromethane	U		6.1	33	µg/Kg-dry	1	08/28/13 09:23
Dichlorodifluoromethane	U		15	33	µg/Kg-dry	1	08/28/13 09:23
Ethylbenzene	U		12	33	µg/Kg-dry	1	08/28/13 09:23
Isopropylbenzene	U		14	33	µg/Kg-dry	1	08/28/13 09:23
Methyl acetate	U		44	220	µg/Kg-dry	1	08/28/13 09:23
Methyl tert-butyl ether	U		14	33	µg/Kg-dry	1	08/28/13 09:23
Methylcyclohexane	U		15	33	µg/Kg-dry	1	08/28/13 09:23
Methylene chloride	U		13	33	µg/Kg-dry	1	08/28/13 09:23
Styrene	U		12	33	µg/Kg-dry	1	08/28/13 09:23
Tetrachloroethene	U		15	33	µg/Kg-dry	1	08/28/13 09:23
Toluene	U		12	33	µg/Kg-dry	1	08/28/13 09:23
trans-1,2-Dichloroethene	U		10	33	µg/Kg-dry	1	08/28/13 09:23
trans-1,3-Dichloropropene	U		11	33	µg/Kg-dry	1	08/28/13 09:23
Trichloroethene	U		15	33	µg/Kg-dry	1	08/28/13 09:23
Trichlorofluoromethane	U		9.1	33	µg/Kg-dry	1	08/28/13 09:23
Vinyl chloride	U		15	33	µg/Kg-dry	1	08/28/13 09:23
Xylenes, Total	U		39	99	µg/Kg-dry	1	08/28/13 09:23
Surr: 1,2-Dichloroethane-d4	102			70-130	%REC	1	08/28/13 09:23
Surr: 4-Bromofluorobenzene	103			70-130	%REC	1	08/28/13 09:23
Surr: Dibromofluoromethane	97.4			70-130	%REC	1	08/28/13 09:23
Surr: Toluene-d8	102			70-130	%REC	1	08/28/13 09:23

MOISTURE

A2540 G

Analyst: RLF

BatchID: R125842

Moisture	5.5	0.025	0.050	% of sample	1	08/28/13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-159
Collection Date: 08/22/13 03:15 PM

Work Order: 1308937
Lab ID: 1308937-74
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Prep: SW3541 / 8/28/13	Analyst: JD
<u>BatchID: 50887</u>							
Aroclor 1016	U		36	330	µg/Kg-dry	1	08/29/13 22:10
Aroclor 1221	U		36	330	µg/Kg-dry	1	08/29/13 22:10
Aroclor 1232	U		36	330	µg/Kg-dry	1	08/29/13 22:10
Aroclor 1242	U		36	330	µg/Kg-dry	1	08/29/13 22:10
Aroclor 1248	U		36	330	µg/Kg-dry	1	08/29/13 22:10
Aroclor 1254	U		11	330	µg/Kg-dry	1	08/29/13 22:10
Aroclor 1260	U		11	330	µg/Kg-dry	1	08/29/13 22:10
Surr: Decachlorobiphenyl	80.1			40-140	%REC	1	08/29/13 22:10
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 8/30/13	Analyst: LR
<u>BatchID: 50941</u>							
Mercury	0.0038	J	0.00064	0.032	mg/Kg-dry	1	08/30/13 14:38
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 8/28/13	Analyst: ML
<u>BatchID: 50876</u>							
Antimony	0.047	J	0.00095	0.24	mg/Kg-dry	1	08/29/13 21:35
Arsenic	2.8		0.032	0.24	mg/Kg-dry	1	08/29/13 21:35
Barium	5.3		0.0066	0.57	mg/Kg-dry	1	08/29/13 21:35
Beryllium	0.036	J	0.0019	0.095	mg/Kg-dry	1	08/29/13 21:35
Cadmium	0.024	J	0.00095	0.095	mg/Kg-dry	1	08/29/13 21:35
Chromium	6.2		0.039	0.24	mg/Kg-dry	1	08/29/13 21:35
Cobalt	2.3		0.00095	0.24	mg/Kg-dry	1	08/29/13 21:35
Copper	4.4		0.046	0.24	mg/Kg-dry	1	08/29/13 21:35
Iron	4,200		0.79	24	mg/Kg-dry	1	08/29/13 21:35
Molybdenum	0.14	J	0.010	0.24	mg/Kg-dry	1	08/29/13 21:35
Nickel	4.7		0.024	0.24	mg/Kg-dry	1	08/29/13 21:35
Selenium	0.24		0.030	0.24	mg/Kg-dry	1	08/29/13 21:35
Silver	0.0033	J	0.00095	0.24	mg/Kg-dry	1	08/29/13 21:35
Vanadium	7.8		0.014	0.24	mg/Kg-dry	1	08/29/13 21:35
Zinc	7.9		0.020	0.47	mg/Kg-dry	1	08/29/13 21:35
<u>BatchID: 50876</u>							
Lead	2.8		0.0047	1.2	mg/Kg-dry	5	08/30/13 15:27
Manganese	110		0.10	1.2	mg/Kg-dry	5	08/30/13 15:27
Thallium	U		0.028	1.2	mg/Kg-dry	5	08/30/13 15:27
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 8/27/13	Analyst: RM
<u>BatchID: 50858</u>							
2-Methylnaphthalene	U		9.9	80	µg/Kg-dry	1	08/28/13 14:38
Acenaphthene	U		9.2	30	µg/Kg-dry	1	08/28/13 14:38

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-159
Collection Date: 08/22/13 03:15 PM

Work Order: 1308937
Lab ID: 1308937-74
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	U		9.5	30	µg/Kg-dry	1	08/28/13 14:38
Anthracene	U		10	30	µg/Kg-dry	1	08/28/13 14:38
Benzo(a)anthracene	U		12	30	µg/Kg-dry	1	08/28/13 14:38
Benzo(a)pyrene	U		16	30	µg/Kg-dry	1	08/28/13 14:38
Benzo(b)fluoranthene	U		16	30	µg/Kg-dry	1	08/28/13 14:38
Benzo(g,h,i)perylene	U		24	30	µg/Kg-dry	1	08/28/13 14:38
Benzo(k)fluoranthene	U		14	30	µg/Kg-dry	1	08/28/13 14:38
Chrysene	U		11	30	µg/Kg-dry	1	08/28/13 14:38
Dibenzo(a,h)anthracene	U		17	30	µg/Kg-dry	1	08/28/13 14:38
Fluoranthene	U		12	30	µg/Kg-dry	1	08/28/13 14:38
Fluorene	U		8.8	30	µg/Kg-dry	1	08/28/13 14:38
Indeno(1,2,3-cd)pyrene	U		19	30	µg/Kg-dry	1	08/28/13 14:38
Naphthalene	U		8.6	30	µg/Kg-dry	1	08/28/13 14:38
Phenanthrene	U		30	30	µg/Kg-dry	1	08/28/13 14:38
Pyrene	U		13	30	µg/Kg-dry	1	08/28/13 14:38
Surr: 2-Fluorobiphenyl	89.5			12-100	%REC	1	08/28/13 14:38
Surr: 4-Terphenyl-d14	114			25-137	%REC	1	08/28/13 14:38
Surr: Nitrobenzene-d5	69.4			37-107	%REC	1	08/28/13 14:38

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 8/27/13

Analyst: RS

BatchID: 50856

1,1,1-Trichloroethane	U		12	32	µg/Kg-dry	1	08/28/13 09:50
1,1,2,2-Tetrachloroethane	U		14	32	µg/Kg-dry	1	08/28/13 09:50
1,1,2-Trichloroethane	U		11	32	µg/Kg-dry	1	08/28/13 09:50
1,1,2-Trichlorotrifluoroethane	U		12	32	µg/Kg-dry	1	08/28/13 09:50
1,1-Dichloroethane	U		12	32	µg/Kg-dry	1	08/28/13 09:50
1,1-Dichloroethene	U		13	32	µg/Kg-dry	1	08/28/13 09:50
1,2,4-Trichlorobenzene	U		17	32	µg/Kg-dry	1	08/28/13 09:50
1,2-Dibromo-3-chloropropane	U		16	32	µg/Kg-dry	1	08/28/13 09:50
1,2-Dibromoethane	U		13	32	µg/Kg-dry	1	08/28/13 09:50
1,2-Dichlorobenzene	U		13	32	µg/Kg-dry	1	08/28/13 09:50
1,2-Dichloroethane	U		15	32	µg/Kg-dry	1	08/28/13 09:50
1,2-Dichloropropane	U		11	32	µg/Kg-dry	1	08/28/13 09:50
1,3-Dichlorobenzene	U		13	32	µg/Kg-dry	1	08/28/13 09:50
1,4-Dichlorobenzene	U		12	32	µg/Kg-dry	1	08/28/13 09:50
2-Butanone	U		79	210	µg/Kg-dry	1	08/28/13 09:50
2-Hexanone	U		7.9	32	µg/Kg-dry	1	08/28/13 09:50
4-Methyl-2-pentanone	U		11	32	µg/Kg-dry	1	08/28/13 09:50
Acetone	U		68	110	µg/Kg-dry	1	08/28/13 09:50
Benzene	U		13	32	µg/Kg-dry	1	08/28/13 09:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-159
Collection Date: 08/22/13 03:15 PM

Work Order: 1308937
Lab ID: 1308937-74
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromodichloromethane	U		7.2	32	µg/Kg-dry	1	08/28/13 09:50
Bromoform	U		6.3	32	µg/Kg-dry	1	08/28/13 09:50
Bromomethane	U		12	80	µg/Kg-dry	1	08/28/13 09:50
Carbon disulfide	U		16	32	µg/Kg-dry	1	08/28/13 09:50
Carbon tetrachloride	U		9.1	32	µg/Kg-dry	1	08/28/13 09:50
Chlorobenzene	U		13	32	µg/Kg-dry	1	08/28/13 09:50
Chloroethane	U		68	110	µg/Kg-dry	1	08/28/13 09:50
Chloroform	U		13	32	µg/Kg-dry	1	08/28/13 09:50
Chloromethane	U		18	110	µg/Kg-dry	1	08/28/13 09:50
cis-1,2-Dichloroethene	U		13	32	µg/Kg-dry	1	08/28/13 09:50
cis-1,3-Dichloropropene	U		11	32	µg/Kg-dry	1	08/28/13 09:50
Cyclohexane	U		14	32	µg/Kg-dry	1	08/28/13 09:50
Dibromochloromethane	U		5.9	32	µg/Kg-dry	1	08/28/13 09:50
Dichlorodifluoromethane	U		14	32	µg/Kg-dry	1	08/28/13 09:50
Ethylbenzene	U		12	32	µg/Kg-dry	1	08/28/13 09:50
Isopropylbenzene	U		14	32	µg/Kg-dry	1	08/28/13 09:50
Methyl acetate	U		43	210	µg/Kg-dry	1	08/28/13 09:50
Methyl tert-butyl ether	U		14	32	µg/Kg-dry	1	08/28/13 09:50
Methylcyclohexane	U		15	32	µg/Kg-dry	1	08/28/13 09:50
Methylene chloride	U		13	32	µg/Kg-dry	1	08/28/13 09:50
Styrene	U		12	32	µg/Kg-dry	1	08/28/13 09:50
Tetrachloroethene	U		14	32	µg/Kg-dry	1	08/28/13 09:50
Toluene	U		12	32	µg/Kg-dry	1	08/28/13 09:50
trans-1,2-Dichloroethene	U		9.9	32	µg/Kg-dry	1	08/28/13 09:50
trans-1,3-Dichloropropene	U		11	32	µg/Kg-dry	1	08/28/13 09:50
Trichloroethene	U		15	32	µg/Kg-dry	1	08/28/13 09:50
Trichlorofluoromethane	U		8.8	32	µg/Kg-dry	1	08/28/13 09:50
Vinyl chloride	U		14	32	µg/Kg-dry	1	08/28/13 09:50
Xylenes, Total	U		38	96	µg/Kg-dry	1	08/28/13 09:50
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	08/28/13 09:50
Surr: 4-Bromofluorobenzene	100			70-130	%REC	1	08/28/13 09:50
Surr: Dibromofluoromethane	96.0			70-130	%REC	1	08/28/13 09:50
Surr: Toluene-d8	98.7			70-130	%REC	1	08/28/13 09:50

MOISTURE

A2540 G

Analyst: RLF

BatchID: R125842

Moisture	2.1	0.025	0.050	% of sample	1	08/28/13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: TB-17360-082213-MR-160
Collection Date: 08/22/13

Work Order: 1308937
Lab ID: 1308937-75
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/27/13		Analyst: RS
<u>BatchID: 50856</u>							
1,1,1-Trichloroethane	U		11	30	µg/Kg	1	08/28/13 10:17
1,1,2,2-Tetrachloroethane	U		13	30	µg/Kg	1	08/28/13 10:17
1,1,2-Trichloroethane	U		11	30	µg/Kg	1	08/28/13 10:17
1,1,2-Trichlorotrifluoroethane	U		11	30	µg/Kg	1	08/28/13 10:17
1,1-Dichloroethane	U		11	30	µg/Kg	1	08/28/13 10:17
1,1-Dichloroethene	U		13	30	µg/Kg	1	08/28/13 10:17
1,2,4-Trichlorobenzene	U		16	30	µg/Kg	1	08/28/13 10:17
1,2-Dibromo-3-chloropropane	U		15	30	µg/Kg	1	08/28/13 10:17
1,2-Dibromoethane	U		12	30	µg/Kg	1	08/28/13 10:17
1,2-Dichlorobenzene	U		12	30	µg/Kg	1	08/28/13 10:17
1,2-Dichloroethane	U		14	30	µg/Kg	1	08/28/13 10:17
1,2-Dichloropropane	U		9.9	30	µg/Kg	1	08/28/13 10:17
1,3-Dichlorobenzene	U		12	30	µg/Kg	1	08/28/13 10:17
1,4-Dichlorobenzene	U		11	30	µg/Kg	1	08/28/13 10:17
2-Butanone	U		74	200	µg/Kg	1	08/28/13 10:17
2-Hexanone	U		7.4	30	µg/Kg	1	08/28/13 10:17
4-Methyl-2-pentanone	U		10	30	µg/Kg	1	08/28/13 10:17
Acetone	U		64	100	µg/Kg	1	08/28/13 10:17
Benzene	U		12	30	µg/Kg	1	08/28/13 10:17
Bromodichloromethane	U		6.7	30	µg/Kg	1	08/28/13 10:17
Bromoform	U		5.9	30	µg/Kg	1	08/28/13 10:17
Bromomethane	U		11	75	µg/Kg	1	08/28/13 10:17
Carbon disulfide	U		15	30	µg/Kg	1	08/28/13 10:17
Carbon tetrachloride	U		8.5	30	µg/Kg	1	08/28/13 10:17
Chlorobenzene	U		12	30	µg/Kg	1	08/28/13 10:17
Chloroethane	U		64	100	µg/Kg	1	08/28/13 10:17
Chloroform	U		12	30	µg/Kg	1	08/28/13 10:17
Chloromethane	U		17	100	µg/Kg	1	08/28/13 10:17
cis-1,2-Dichloroethene	U		12	30	µg/Kg	1	08/28/13 10:17
cis-1,3-Dichloropropene	U		10	30	µg/Kg	1	08/28/13 10:17
Cyclohexane	U		13	30	µg/Kg	1	08/28/13 10:17
Dibromochloromethane	U		5.6	30	µg/Kg	1	08/28/13 10:17
Dichlorodifluoromethane	U		14	30	µg/Kg	1	08/28/13 10:17
Ethylbenzene	U		11	30	µg/Kg	1	08/28/13 10:17
Isopropylbenzene	U		13	30	µg/Kg	1	08/28/13 10:17
Methyl acetate	U		40	200	µg/Kg	1	08/28/13 10:17
Methyl tert-butyl ether	U		13	30	µg/Kg	1	08/28/13 10:17

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: TB-17360-082213-MR-160
Collection Date: 08/22/13

Work Order: 1308937
Lab ID: 1308937-75
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		14	30	µg/Kg	1	08/28/13 10:17
Methylene chloride	U		12	30	µg/Kg	1	08/28/13 10:17
Styrene	U		11	30	µg/Kg	1	08/28/13 10:17
Tetrachloroethene	U		13	30	µg/Kg	1	08/28/13 10:17
Toluene	U		11	30	µg/Kg	1	08/28/13 10:17
trans-1,2-Dichloroethene	U		9.2	30	µg/Kg	1	08/28/13 10:17
trans-1,3-Dichloropropene	U		10	30	µg/Kg	1	08/28/13 10:17
Trichloroethene	U		14	30	µg/Kg	1	08/28/13 10:17
Trichlorofluoromethane	U		8.3	30	µg/Kg	1	08/28/13 10:17
Vinyl chloride	U		14	30	µg/Kg	1	08/28/13 10:17
Xylenes, Total	U		35	90	µg/Kg	1	08/28/13 10:17
Surr: 1,2-Dichloroethane-d4	99.8			70-130	%REC	1	08/28/13 10:17
Surr: 4-Bromofluorobenzene	98.6			70-130	%REC	1	08/28/13 10:17
Surr: Dibromofluoromethane	94.3			70-130	%REC	1	08/28/13 10:17
Surr: Toluene-d8	99.0			70-130	%REC	1	08/28/13 10:17

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: TB-17360-082213-MR-161
Collection Date: 08/22/13

Work Order: 1308937
Lab ID: 1308937-76
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/27/13		Analyst: RS
BatchID: 50856							
1,1,1-Trichloroethane	U		11	30	µg/Kg	1	08/28/13 10:44
1,1,2,2-Tetrachloroethane	U		13	30	µg/Kg	1	08/28/13 10:44
1,1,2-Trichloroethane	U		11	30	µg/Kg	1	08/28/13 10:44
1,1,2-Trichlorotrifluoroethane	U		11	30	µg/Kg	1	08/28/13 10:44
1,1-Dichloroethane	U		11	30	µg/Kg	1	08/28/13 10:44
1,1-Dichloroethene	U		13	30	µg/Kg	1	08/28/13 10:44
1,2,4-Trichlorobenzene	U		16	30	µg/Kg	1	08/28/13 10:44
1,2-Dibromo-3-chloropropane	U		15	30	µg/Kg	1	08/28/13 10:44
1,2-Dibromoethane	U		12	30	µg/Kg	1	08/28/13 10:44
1,2-Dichlorobenzene	U		12	30	µg/Kg	1	08/28/13 10:44
1,2-Dichloroethane	U		14	30	µg/Kg	1	08/28/13 10:44
1,2-Dichloropropane	U		9.9	30	µg/Kg	1	08/28/13 10:44
1,3-Dichlorobenzene	U		12	30	µg/Kg	1	08/28/13 10:44
1,4-Dichlorobenzene	U		11	30	µg/Kg	1	08/28/13 10:44
2-Butanone	U		74	200	µg/Kg	1	08/28/13 10:44
2-Hexanone	U		7.4	30	µg/Kg	1	08/28/13 10:44
4-Methyl-2-pentanone	U		10	30	µg/Kg	1	08/28/13 10:44
Acetone	U		64	100	µg/Kg	1	08/28/13 10:44
Benzene	U		12	30	µg/Kg	1	08/28/13 10:44
Bromodichloromethane	U		6.7	30	µg/Kg	1	08/28/13 10:44
Bromoform	U		5.9	30	µg/Kg	1	08/28/13 10:44
Bromomethane	U		11	75	µg/Kg	1	08/28/13 10:44
Carbon disulfide	U		15	30	µg/Kg	1	08/28/13 10:44
Carbon tetrachloride	U		8.5	30	µg/Kg	1	08/28/13 10:44
Chlorobenzene	U		12	30	µg/Kg	1	08/28/13 10:44
Chloroethane	U		64	100	µg/Kg	1	08/28/13 10:44
Chloroform	U		12	30	µg/Kg	1	08/28/13 10:44
Chloromethane	U		17	100	µg/Kg	1	08/28/13 10:44
cis-1,2-Dichloroethene	U		12	30	µg/Kg	1	08/28/13 10:44
cis-1,3-Dichloropropene	U		10	30	µg/Kg	1	08/28/13 10:44
Cyclohexane	U		13	30	µg/Kg	1	08/28/13 10:44
Dibromochloromethane	U		5.6	30	µg/Kg	1	08/28/13 10:44
Dichlorodifluoromethane	U		14	30	µg/Kg	1	08/28/13 10:44
Ethylbenzene	U		11	30	µg/Kg	1	08/28/13 10:44
Isopropylbenzene	U		13	30	µg/Kg	1	08/28/13 10:44
Methyl acetate	U		40	200	µg/Kg	1	08/28/13 10:44
Methyl tert-butyl ether	U		13	30	µg/Kg	1	08/28/13 10:44

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: TB-17360-082213-MR-161
Collection Date: 08/22/13

Work Order: 1308937
Lab ID: 1308937-76
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		14	30	µg/Kg	1	08/28/13 10:44
Methylene chloride	U		12	30	µg/Kg	1	08/28/13 10:44
Styrene	U		11	30	µg/Kg	1	08/28/13 10:44
Tetrachloroethene	U		13	30	µg/Kg	1	08/28/13 10:44
Toluene	U		11	30	µg/Kg	1	08/28/13 10:44
trans-1,2-Dichloroethene	U		9.2	30	µg/Kg	1	08/28/13 10:44
trans-1,3-Dichloropropene	U		10	30	µg/Kg	1	08/28/13 10:44
Trichloroethene	U		14	30	µg/Kg	1	08/28/13 10:44
Trichlorofluoromethane	U		8.3	30	µg/Kg	1	08/28/13 10:44
Vinyl chloride	U		14	30	µg/Kg	1	08/28/13 10:44
Xylenes, Total	U		35	90	µg/Kg	1	08/28/13 10:44
Surr: 1,2-Dichloroethane-d4	103			70-130	%REC	1	08/28/13 10:44
Surr: 4-Bromofluorobenzene	102			70-130	%REC	1	08/28/13 10:44
Surr: Dibromofluoromethane	98.7			70-130	%REC	1	08/28/13 10:44
Surr: Toluene-d8	102			70-130	%REC	1	08/28/13 10:44

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: TB-17360-082213-MR-162
Collection Date: 08/22/13

Work Order: 1308937
Lab ID: 1308937-77
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/27/13		Analyst: RS
<u>BatchID: 50857</u>							
1,1,1-Trichloroethane	U		11	30	µg/Kg	1	08/28/13 18:44
1,1,2,2-Tetrachloroethane	U		13	30	µg/Kg	1	08/28/13 18:44
1,1,2-Trichloroethane	U		11	30	µg/Kg	1	08/28/13 18:44
1,1,2-Trichlorotrifluoroethane	U		11	30	µg/Kg	1	08/28/13 18:44
1,1-Dichloroethane	U		11	30	µg/Kg	1	08/28/13 18:44
1,1-Dichloroethene	U		13	30	µg/Kg	1	08/28/13 18:44
1,2,4-Trichlorobenzene	U		16	30	µg/Kg	1	08/28/13 18:44
1,2-Dibromo-3-chloropropane	U		15	30	µg/Kg	1	08/28/13 18:44
1,2-Dibromoethane	U		12	30	µg/Kg	1	08/28/13 18:44
1,2-Dichlorobenzene	U		12	30	µg/Kg	1	08/28/13 18:44
1,2-Dichloroethane	U		14	30	µg/Kg	1	08/28/13 18:44
1,2-Dichloropropane	U		9.9	30	µg/Kg	1	08/28/13 18:44
1,3-Dichlorobenzene	U		12	30	µg/Kg	1	08/28/13 18:44
1,4-Dichlorobenzene	U		11	30	µg/Kg	1	08/28/13 18:44
2-Butanone	U		74	200	µg/Kg	1	08/28/13 18:44
2-Hexanone	U		7.4	30	µg/Kg	1	08/28/13 18:44
4-Methyl-2-pentanone	U		10	30	µg/Kg	1	08/28/13 18:44
Acetone	U		64	100	µg/Kg	1	08/28/13 18:44
Benzene	U		12	30	µg/Kg	1	08/28/13 18:44
Bromodichloromethane	U		6.7	30	µg/Kg	1	08/28/13 18:44
Bromoform	U		5.9	30	µg/Kg	1	08/28/13 18:44
Bromomethane	U		11	75	µg/Kg	1	08/28/13 18:44
Carbon disulfide	U		15	30	µg/Kg	1	08/28/13 18:44
Carbon tetrachloride	U		8.5	30	µg/Kg	1	08/28/13 18:44
Chlorobenzene	U		12	30	µg/Kg	1	08/28/13 18:44
Chloroethane	U		64	100	µg/Kg	1	08/28/13 18:44
Chloroform	U		12	30	µg/Kg	1	08/28/13 18:44
Chloromethane	U		17	100	µg/Kg	1	08/28/13 18:44
cis-1,2-Dichloroethene	U		12	30	µg/Kg	1	08/28/13 18:44
cis-1,3-Dichloropropene	U		10	30	µg/Kg	1	08/28/13 18:44
Cyclohexane	U		13	30	µg/Kg	1	08/28/13 18:44
Dibromochloromethane	U		5.6	30	µg/Kg	1	08/28/13 18:44
Dichlorodifluoromethane	U		14	30	µg/Kg	1	08/28/13 18:44
Ethylbenzene	U		11	30	µg/Kg	1	08/28/13 18:44
Isopropylbenzene	U		13	30	µg/Kg	1	08/28/13 18:44
Methyl acetate	U		40	200	µg/Kg	1	08/28/13 18:44
Methyl tert-butyl ether	U		13	30	µg/Kg	1	08/28/13 18:44

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: TB-17360-082213-MR-162
Collection Date: 08/22/13

Work Order: 1308937
Lab ID: 1308937-77
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		14	30	µg/Kg	1	08/28/13 18:44
Methylene chloride	U		12	30	µg/Kg	1	08/28/13 18:44
Styrene	U		11	30	µg/Kg	1	08/28/13 18:44
Tetrachloroethene	U		13	30	µg/Kg	1	08/28/13 18:44
Toluene	U		11	30	µg/Kg	1	08/28/13 18:44
trans-1,2-Dichloroethene	U		9.2	30	µg/Kg	1	08/28/13 18:44
trans-1,3-Dichloropropene	U		10	30	µg/Kg	1	08/28/13 18:44
Trichloroethene	U		14	30	µg/Kg	1	08/28/13 18:44
Trichlorofluoromethane	U		8.3	30	µg/Kg	1	08/28/13 18:44
Vinyl chloride	U		14	30	µg/Kg	1	08/28/13 18:44
Xylenes, Total	U		35	90	µg/Kg	1	08/28/13 18:44
Surr: 1,2-Dichloroethane-d4	99.2			70-130	%REC	1	08/28/13 18:44
Surr: 4-Bromofluorobenzene	103			70-130	%REC	1	08/28/13 18:44
Surr: Dibromofluoromethane	102			70-130	%REC	1	08/28/13 18:44
Surr: Toluene-d8	99.6			70-130	%REC	1	08/28/13 18:44

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: TB-17360-082213-MR-163
Collection Date: 08/22/13

Work Order: 1308937
Lab ID: 1308937-78
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/27/13		Analyst: RS
BatchID: 50857							
1,1,1-Trichloroethane	U		11	30	µg/Kg	1	08/28/13 19:11
1,1,2,2-Tetrachloroethane	U		13	30	µg/Kg	1	08/28/13 19:11
1,1,2-Trichloroethane	U		11	30	µg/Kg	1	08/28/13 19:11
1,1,2-Trichlorotrifluoroethane	U		11	30	µg/Kg	1	08/28/13 19:11
1,1-Dichloroethane	U		11	30	µg/Kg	1	08/28/13 19:11
1,1-Dichloroethene	U		13	30	µg/Kg	1	08/28/13 19:11
1,2,4-Trichlorobenzene	U		16	30	µg/Kg	1	08/28/13 19:11
1,2-Dibromo-3-chloropropane	U		15	30	µg/Kg	1	08/28/13 19:11
1,2-Dibromoethane	U		12	30	µg/Kg	1	08/28/13 19:11
1,2-Dichlorobenzene	U		12	30	µg/Kg	1	08/28/13 19:11
1,2-Dichloroethane	U		14	30	µg/Kg	1	08/28/13 19:11
1,2-Dichloropropane	U		9.9	30	µg/Kg	1	08/28/13 19:11
1,3-Dichlorobenzene	U		12	30	µg/Kg	1	08/28/13 19:11
1,4-Dichlorobenzene	U		11	30	µg/Kg	1	08/28/13 19:11
2-Butanone	U		74	200	µg/Kg	1	08/28/13 19:11
2-Hexanone	U		7.4	30	µg/Kg	1	08/28/13 19:11
4-Methyl-2-pentanone	U		10	30	µg/Kg	1	08/28/13 19:11
Acetone	U		64	100	µg/Kg	1	08/28/13 19:11
Benzene	U		12	30	µg/Kg	1	08/28/13 19:11
Bromodichloromethane	U		6.7	30	µg/Kg	1	08/28/13 19:11
Bromoform	U		5.9	30	µg/Kg	1	08/28/13 19:11
Bromomethane	U		11	75	µg/Kg	1	08/28/13 19:11
Carbon disulfide	U		15	30	µg/Kg	1	08/28/13 19:11
Carbon tetrachloride	U		8.5	30	µg/Kg	1	08/28/13 19:11
Chlorobenzene	U		12	30	µg/Kg	1	08/28/13 19:11
Chloroethane	U		64	100	µg/Kg	1	08/28/13 19:11
Chloroform	U		12	30	µg/Kg	1	08/28/13 19:11
Chloromethane	U		17	100	µg/Kg	1	08/28/13 19:11
cis-1,2-Dichloroethene	U		12	30	µg/Kg	1	08/28/13 19:11
cis-1,3-Dichloropropene	U		10	30	µg/Kg	1	08/28/13 19:11
Cyclohexane	U		13	30	µg/Kg	1	08/28/13 19:11
Dibromochloromethane	U		5.6	30	µg/Kg	1	08/28/13 19:11
Dichlorodifluoromethane	U		14	30	µg/Kg	1	08/28/13 19:11
Ethylbenzene	U		11	30	µg/Kg	1	08/28/13 19:11
Isopropylbenzene	U		13	30	µg/Kg	1	08/28/13 19:11
Methyl acetate	U		40	200	µg/Kg	1	08/28/13 19:11
Methyl tert-butyl ether	U		13	30	µg/Kg	1	08/28/13 19:11

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: TB-17360-082213-MR-163
Collection Date: 08/22/13

Work Order: 1308937
Lab ID: 1308937-78
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		14	30	µg/Kg	1	08/28/13 19:11
Methylene chloride	U		12	30	µg/Kg	1	08/28/13 19:11
Styrene	U		11	30	µg/Kg	1	08/28/13 19:11
Tetrachloroethene	U		13	30	µg/Kg	1	08/28/13 19:11
Toluene	U		11	30	µg/Kg	1	08/28/13 19:11
trans-1,2-Dichloroethene	U		9.2	30	µg/Kg	1	08/28/13 19:11
trans-1,3-Dichloropropene	U		10	30	µg/Kg	1	08/28/13 19:11
Trichloroethene	U		14	30	µg/Kg	1	08/28/13 19:11
Trichlorofluoromethane	U		8.3	30	µg/Kg	1	08/28/13 19:11
Vinyl chloride	U		14	30	µg/Kg	1	08/28/13 19:11
Xylenes, Total	U		35	90	µg/Kg	1	08/28/13 19:11
Surr: 1,2-Dichloroethane-d4	104			70-130	%REC	1	08/28/13 19:11
Surr: 4-Bromofluorobenzene	102			70-130	%REC	1	08/28/13 19:11
Surr: Dibromofluoromethane	101			70-130	%REC	1	08/28/13 19:11
Surr: Toluene-d8	101			70-130	%REC	1	08/28/13 19:11

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: TB-17360-082213-MR-164
Collection Date: 08/22/13

Work Order: 1308937
Lab ID: 1308937-79
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/27/13	Analyst: RS	
BatchID: 50857							
1,1,1-Trichloroethane	U		11	30	µg/Kg	1	08/28/13 19:38
1,1,2,2-Tetrachloroethane	U		13	30	µg/Kg	1	08/28/13 19:38
1,1,2-Trichloroethane	U		11	30	µg/Kg	1	08/28/13 19:38
1,1,2-Trichlorotrifluoroethane	U		11	30	µg/Kg	1	08/28/13 19:38
1,1-Dichloroethane	U		11	30	µg/Kg	1	08/28/13 19:38
1,1-Dichloroethene	U		13	30	µg/Kg	1	08/28/13 19:38
1,2,4-Trichlorobenzene	U		16	30	µg/Kg	1	08/28/13 19:38
1,2-Dibromo-3-chloropropane	U		15	30	µg/Kg	1	08/28/13 19:38
1,2-Dibromoethane	U		12	30	µg/Kg	1	08/28/13 19:38
1,2-Dichlorobenzene	U		12	30	µg/Kg	1	08/28/13 19:38
1,2-Dichloroethane	U		14	30	µg/Kg	1	08/28/13 19:38
1,2-Dichloropropane	U		9.9	30	µg/Kg	1	08/28/13 19:38
1,3-Dichlorobenzene	U		12	30	µg/Kg	1	08/28/13 19:38
1,4-Dichlorobenzene	U		11	30	µg/Kg	1	08/28/13 19:38
2-Butanone	U		74	200	µg/Kg	1	08/28/13 19:38
2-Hexanone	U		7.4	30	µg/Kg	1	08/28/13 19:38
4-Methyl-2-pentanone	U		10	30	µg/Kg	1	08/28/13 19:38
Acetone	U		64	100	µg/Kg	1	08/28/13 19:38
Benzene	U		12	30	µg/Kg	1	08/28/13 19:38
Bromodichloromethane	U		6.7	30	µg/Kg	1	08/28/13 19:38
Bromoform	U		5.9	30	µg/Kg	1	08/28/13 19:38
Bromomethane	U		11	75	µg/Kg	1	08/28/13 19:38
Carbon disulfide	U		15	30	µg/Kg	1	08/28/13 19:38
Carbon tetrachloride	U		8.5	30	µg/Kg	1	08/28/13 19:38
Chlorobenzene	U		12	30	µg/Kg	1	08/28/13 19:38
Chloroethane	U		64	100	µg/Kg	1	08/28/13 19:38
Chloroform	U		12	30	µg/Kg	1	08/28/13 19:38
Chloromethane	U		17	100	µg/Kg	1	08/28/13 19:38
cis-1,2-Dichloroethene	U		12	30	µg/Kg	1	08/28/13 19:38
cis-1,3-Dichloropropene	U		10	30	µg/Kg	1	08/28/13 19:38
Cyclohexane	U		13	30	µg/Kg	1	08/28/13 19:38
Dibromochloromethane	U		5.6	30	µg/Kg	1	08/28/13 19:38
Dichlorodifluoromethane	U		14	30	µg/Kg	1	08/28/13 19:38
Ethylbenzene	U		11	30	µg/Kg	1	08/28/13 19:38
Isopropylbenzene	U		13	30	µg/Kg	1	08/28/13 19:38
Methyl acetate	U		40	200	µg/Kg	1	08/28/13 19:38
Methyl tert-butyl ether	U		13	30	µg/Kg	1	08/28/13 19:38

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 05-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: TB-17360-082213-MR-164
Collection Date: 08/22/13

Work Order: 1308937
Lab ID: 1308937-79
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		14	30	µg/Kg	1	08/28/13 19:38
Methylene chloride	U		12	30	µg/Kg	1	08/28/13 19:38
Styrene	U		11	30	µg/Kg	1	08/28/13 19:38
Tetrachloroethene	U		13	30	µg/Kg	1	08/28/13 19:38
Toluene	U		11	30	µg/Kg	1	08/28/13 19:38
trans-1,2-Dichloroethene	U		9.2	30	µg/Kg	1	08/28/13 19:38
trans-1,3-Dichloropropene	U		10	30	µg/Kg	1	08/28/13 19:38
Trichloroethene	U		14	30	µg/Kg	1	08/28/13 19:38
Trichlorofluoromethane	U		8.3	30	µg/Kg	1	08/28/13 19:38
Vinyl chloride	U		14	30	µg/Kg	1	08/28/13 19:38
Xylenes, Total	U		35	90	µg/Kg	1	08/28/13 19:38
Surr: 1,2-Dichloroethane-d4	100			70-130	%REC	1	08/28/13 19:38
Surr: 4-Bromofluorobenzene	99.8			70-130	%REC	1	08/28/13 19:38
Surr: Dibromofluoromethane	99.2			70-130	%REC	1	08/28/13 19:38
Surr: Toluene-d8	100			70-130	%REC	1	08/28/13 19:38

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50823** Instrument ID **GC4** Method: **SW8082**

MBLK				Sample ID: PBLKS1-50823-50823				Units: µg/Kg			Analysis Date: 08/28/13 02:33 PM		
Client ID:			Run ID: GC4_130828A				SeqNo: 2428187			Prep Date: 08/26/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Aroclor 1016	U	40											
Aroclor 1221	U	40											
Aroclor 1232	U	40											
Aroclor 1242	U	40											
Aroclor 1248	U	40											
Aroclor 1254	U	40											
Aroclor 1260	U	40											
Surr: Decachlorobiphenyl	30.33	0	33.3	0	91.1	40-140	0						

LCS				Sample ID: PLCSS1-50823-50823				Units: µg/Kg		Analysis Date: 08/28/13 02:47 PM	
Client ID:			Run ID: GC4_130828A			SeqNo: 2428188		Prep Date: 08/26/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aroclor 1016	823.7	40	833	0	98.9	50-130	0				
Aroclor 1260	838.3	40	833	0	101	50-130	0				
<i>Surr: Decachlorobiphenyl</i>	31	0	33.3	0	93.1	40-140	0				

MS				Sample ID: 1308937-16A MS				Units: µg/Kg			Analysis Date: 08/28/13 08:25 PM			
Client ID: SO-017360-081913-MR-016				Run ID: GC4_130828A				SeqNo: 2429399			Prep Date: 08/26/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Aroclor 1016	832.6	39	806.8	0	103	40-140	0							
Aroclor 1260	838.8	39	806.8	0	104	40-140	0							
Surr: Decachlorobiphenyl	32.29	0	32.25	0	100	40-140	0							

MSD				Sample ID: 1308937-16A MSD				Units: µg/Kg			Analysis Date: 08/28/13 08:39 PM			
Client ID: SO-017360-081913-MR-016				Run ID: GC4_130828A				SeqNo: 2429400			Prep Date: 08/26/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Aroclor 1016	852.6	40	828.1	0	103	40-140	832.6	2.37	50					
Aroclor 1260	855.9	40	828.1	0	103	40-140	838.8	2.02	50					
Surr: Decachlorobiphenyl	34.13	0	33.1	0	103	40-140	32.29	5.56	50					

The following samples were analyzed in this batch:

1308937-01A	1308937-02A	1308937-03A
1308937-04A	1308937-05A	1308937-06A
1308937-07A	1308937-08A	1308937-09A
1308937-10A	1308937-11A	1308937-12A
1308937-13A	1308937-14A	1308937-15A
1308937-16A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50844** Instrument ID **GC4** Method: **SW8082**

MBLK		Sample ID: PBLKS1-50844-50844				Units: µg/Kg		Analysis Date: 08/29/13 03:39 AM		
Client ID:		Run ID: GC4_130828C				SeqNo: 2429470		Prep Date: 08/27/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	40								
Aroclor 1221	U	40								
Aroclor 1232	U	40								
Aroclor 1242	U	40								
Aroclor 1248	U	40								
Aroclor 1254	U	40								
Aroclor 1260	U	40								
<i>Surr: Decachlorobiphenyl</i>	37	0	33.3	0	111	40-140	0			

LCS		Sample ID: PLCSS1-50844-50844				Units: µg/Kg		Analysis Date: 08/29/13 03:52 AM		
Client ID:		Run ID: GC4_130828C				SeqNo: 2429471		Prep Date: 08/27/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	811.7	40	833	0	97.4	50-130	0			
Aroclor 1260	840	40	833	0	101	50-130	0			
<i>Surr: Decachlorobiphenyl</i>	34	0	33.3	0	102	40-140	0			

MS		Sample ID: 1308937-23A MS				Units: µg/Kg		Analysis Date: 08/29/13 06:08 AM		
Client ID: SO-017360-081913-MR-024		Run ID: GC4_130828C				SeqNo: 2429484		Prep Date: 08/27/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	835.5	39	806.1	0	104	40-140	0			
Aroclor 1260	778.1	39	806.1	0	96.5	40-140	0			
<i>Surr: Decachlorobiphenyl</i>	29.68	0	32.23	0	92.1	40-140	0			

MSD		Sample ID: 1308937-23A MSD				Units: µg/Kg		Analysis Date: 08/29/13 06:21 AM		
Client ID: SO-017360-081913-MR-024		Run ID: GC4_130828C				SeqNo: 2429485		Prep Date: 08/27/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	840.9	38	790.9	0	106	40-140	835.5	0.643	50	
Aroclor 1260	799.4	38	790.9	0	101	40-140	778.1	2.71	50	
<i>Surr: Decachlorobiphenyl</i>	30.07	0	31.62	0	95.1	40-140	29.68	1.3	50	

The following samples were analyzed in this batch:

1308937-17A	1308937-18A	1308937-19A
1308937-20A	1308937-21A	1308937-22A
1308937-23A	1308937-24A	1308937-25A
1308937-26A	1308937-27A	1308937-28A
1308937-29A	1308937-30A	1308937-31A
1308937-32A	1308937-33A	1308937-34A
1308937-35A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50860** Instrument ID **GC4** Method: **SW8082**

MBLK		Sample ID: PBLKS1-50860-50860				Units: µg/Kg		Analysis Date: 08/29/13 10:26 AM		
Client ID:		Run ID: GC4_130829B				SeqNo: 2431137		Prep Date: 08/27/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	40								
Aroclor 1221	U	40								
Aroclor 1232	U	40								
Aroclor 1242	U	40								
Aroclor 1248	U	40								
Aroclor 1254	U	40								
Aroclor 1260	U	40								
<i>Surr: Decachlorobiphenyl</i>	32	0	33.3	0	96.1	40-140	0			

LCS		Sample ID: PLCSS1-50860-50860				Units: µg/Kg		Analysis Date: 08/29/13 10:40 AM		
Client ID:		Run ID: GC4_130829B				SeqNo: 2431138		Prep Date: 08/27/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	740	40	833	0	88.8	50-130	0			
Aroclor 1260	772	40	833	0	92.7	50-130	0			
<i>Surr: Decachlorobiphenyl</i>	31	0	33.3	0	93.1	40-140	0			

MS		Sample ID: 1308937-41A MS				Units: µg/Kg		Analysis Date: 08/29/13 12:15 PM		
Client ID: SO-017360-081913-MR-043		Run ID: GC4_130829B				SeqNo: 2431145		Prep Date: 08/27/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	674.5	39	806.1	0	83.7	40-140	0			
Aroclor 1260	719.3	39	806.1	0	89.2	40-140	0			
<i>Surr: Decachlorobiphenyl</i>	28.71	0	32.22	0	89.1	40-140	0			

MSD		Sample ID: 1308937-41A MSD				Units: µg/Kg		Analysis Date: 08/29/13 12:28 PM		
Client ID: SO-017360-081913-MR-043		Run ID: GC4_130829B				SeqNo: 2431146		Prep Date: 08/27/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	657.5	38	801.5	0	82	40-140	674.5	2.55	50	
Aroclor 1260	694	38	801.5	0	86.6	40-140	719.3	3.58	50	
<i>Surr: Decachlorobiphenyl</i>	28.54	0	32.04	0	89.1	40-140	28.71	0.573	50	

The following samples were analyzed in this batch:

1308937-36A	1308937-37A	1308937-38A
1308937-39A	1308937-40A	1308937-41A
1308937-42A	1308937-43A	1308937-44A
1308937-45A	1308937-46A	1308937-47A
1308937-48A	1308937-49A	1308937-50A
1308937-51A	1308937-52A	1308937-53A
1308937-54A	1308937-55A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50887** Instrument ID **GC4** Method: **SW8082**

MBLK		Sample ID: PBLKS1-50887-50887				Units: µg/Kg		Analysis Date: 08/29/13 01:09 PM		
Client ID:		Run ID: GC4_130829A				SeqNo: 2429634		Prep Date: 08/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	40								
Aroclor 1221	U	40								
Aroclor 1232	U	40								
Aroclor 1242	U	40								
Aroclor 1248	U	40								
Aroclor 1254	U	40								
Aroclor 1260	U	40								
<i>Surr: Decachlorobiphenyl</i>	30.67	0	33.3	0	92.1	40-140	0			

LCS		Sample ID: PLCSS1-50887-50887				Units: µg/Kg		Analysis Date: 08/29/13 01:22 PM		
Client ID:		Run ID: GC4_130829A				SeqNo: 2429635		Prep Date: 08/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	742.3	40	833	0	89.1	50-130	0			
Aroclor 1260	772	40	833	0	92.7	50-130	0			
<i>Surr: Decachlorobiphenyl</i>	29.67	0	33.3	0	89.1	40-140	0			

MS		Sample ID: 1308937-59A MS				Units: µg/Kg		Analysis Date: 08/29/13 02:17 PM		
Client ID: SO-017360-081913-MR-062		Run ID: GC4_130829A				SeqNo: 2429639		Prep Date: 08/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	691.1	38	795.6	0	86.9	40-140	0			
Aroclor 1260	772.3	38	795.6	0	97.1	40-140	0			
<i>Surr: Decachlorobiphenyl</i>	29.61	0	31.8	0	93.1	40-140	0			

MSD		Sample ID: 1308937-59A MSD				Units: µg/Kg		Analysis Date: 08/29/13 02:30 PM		
Client ID: SO-017360-081913-MR-062		Run ID: GC4_130829A				SeqNo: 2429640		Prep Date: 08/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	691.9	39	806.8	0	85.8	40-140	691.1	0.106	50	
Aroclor 1260	771	39	806.8	0	95.6	40-140	772.3	0.175	50	
<i>Surr: Decachlorobiphenyl</i>	30.03	0	32.25	0	93.1	40-140	29.61	1.4	50	

The following samples were analyzed in this batch:

1308937-56A	1308937-57A	1308937-58A
1308937-59A	1308937-60A	1308937-61A
1308937-62A	1308937-67A	1308937-68A
1308937-69A	1308937-70A	1308937-71A
1308937-72A	1308937-73A	1308937-74A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50941** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-50941-50941				Units: mg/Kg		Analysis Date: 08/30/13 02:01 PM		
Client ID:		Run ID: HG1_130830A				SeqNo: 2431205		Prep Date: 08/30/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury U 0.020

LCS		Sample ID: LCS-50941-50941				Units: mg/Kg		Analysis Date: 08/30/13 02:03 PM		
Client ID:		Run ID: HG1_130830A				SeqNo: 2431206		Prep Date: 08/30/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1788 0.020 0.1665 0 107 80-120 0

MS		Sample ID: 1308937-69AMS				Units: mg/Kg		Analysis Date: 08/30/13 02:19 PM		
Client ID: SO-17360-082213-MR-154		Run ID: HG1_130830A				SeqNo: 2431214		Prep Date: 08/30/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1307 0.013 0.1112 0.009029 109 75-125 0

MSD		Sample ID: 1308937-69AMSD				Units: mg/Kg		Analysis Date: 08/30/13 02:28 PM		
Client ID: SO-17360-082213-MR-154		Run ID: HG1_130830A				SeqNo: 2431227		Prep Date: 08/30/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1403 0.014 0.1194 0.009029 110 75-125 0.1307 7.07 35

The following samples were analyzed in this batch:

1308937-67A	1308937-68A	1308937-69A
1308937-70A	1308937-71A	1308937-72A
1308937-73A	1308937-74A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50876** Instrument ID **ICPMS1** Method: **SW6020A**

Sample ID: MBLK-50876-50876				Units: mg/Kg			Analysis Date: 08/29/13 05:38 PM			
Client ID:		Run ID: ICPMS1_130829A			SeqNo: 2430058		Prep Date: 08/28/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.0216	0.25								J
Cadmium	0.02191	0.10								J
Copper	0.2134	0.25								J
Iron	23.28	4.0								
Lead	0.3972	0.25								
Manganese	0.5815	0.25								
Molybdenum	0.05095	0.25								J
Selenium	0.04565	0.25								J
Silver	0.01374	0.25								J
Thallium	U	0.25								
Zinc	0.4095	0.50								J

MBLK				Sample ID: MBLK-50876-50876				Units: mg/Kg			Analysis Date: 08/30/13 02:05 PM				
Client ID:				Run ID: ICPMS1_130830A				SeqNo: 2431176			Prep Date: 08/28/13			DF: 1	
Analyte				Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic				U		0.25									
Barium				U		0.25									
Chromium				U		0.25									
Cobalt				U		0.25									
Nickel				U		0.25									
Vanadium				U		0.25									

MBLK		Sample ID: MBLK-50876-50876					Units: mg/Kg		Analysis Date: 09/03/13 07:49 PM		
Client ID:			Run ID: ICPMS1_130903B			SeqNo: 2433450		Prep Date: 08/28/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Beryllium	U	0.10									

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50876** Instrument ID **ICPMS1** Method: **SW6020A**

LCS Sample ID: LCS-50876-50876				Units: mg/Kg			Analysis Date: 08/29/13 05:45 PM			
Client ID:		Run ID: ICPMS1_130829A			SeqNo: 2430059		Prep Date: 08/28/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	4.942	0.25	5	0	98.8	80-120	0			
Cadmium	4.496	0.10	5	0	89.9	80-120	0			
Copper	4.467	0.25	5	0	89.3	80-120	0			
Iron	455.8	4.0	500	0	91.2	80-120	0			B
Lead	5.165	0.25	5	0	103	80-120	0			B
Manganese	4.958	0.25	5	0	99.2	80-120	0			B
Molybdenum	4.89	0.25	5	0	97.8	80-120	0			
Selenium	4.017	0.25	5	0	80.3	80-120	0			
Silver	4.958	0.25	5	0	99.2	80-120	0			
Thallium	4.642	0.25	5	0	92.8	80-120	0			
Zinc	4.581	0.50	5	0	91.6	80-120	0			

LCS Sample ID: LCS-50876-50876				Units: mg/Kg			Analysis Date: 08/30/13 02:30 PM			
Client ID:		Run ID: ICPMS1_130830A			SeqNo: 2431180		Prep Date: 08/28/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.264	0.25	5	0	85.3	80-120	0			
Barium	4.804	0.25	5	0	96.1	80-120	0			
Chromium	4.75	0.25	5	0	95	80-120	0			
Cobalt	4.631	0.25	5	0	92.6	80-120	0			
Nickel	4.706	0.25	5	0	94.1	80-120	0			
Vanadium	4.759	0.25	5	0	95.2	80-120	0			

LCS Sample ID: LCS-50876-50876				Units: mg/Kg			Analysis Date: 09/03/13 07:56 PM			
Client ID:		Run ID: ICPMS1_130903B			SeqNo: 2433451		Prep Date: 08/28/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	4.955	0.10	5	0	99.1	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50876** Instrument ID **ICPMS1** Method: **SW6020A**

MS				Sample ID: 1308937-69AMS			Units: mg/Kg		Analysis Date: 08/29/13 08:39 PM	
Client ID: SO-17360-082213-MR-154				Run ID: ICPMS1_130829A			SeqNo: 2430085		Prep Date: 08/28/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	6.458	0.35	6.964	0.09266	91.4	75-125	0			
Arsenic	7.159	0.35	6.964	1.246	84.9	75-125	0			
Barium	24.62	0.84	6.964	14.4	147	75-125	0			S
Cadmium	6.437	0.14	6.964	0.04578	91.8	75-125	0			
Chromium	11.72	0.35	6.964	3.765	114	75-125	0			
Cobalt	7.855	0.35	6.964	1.585	90	75-125	0			
Copper	9.513	0.35	6.964	3.907	80.5	75-125	0			
Iron	5004	35	696.4	4010	143	75-125	0			SO
Lead	10.47	0.70	6.964	5.19	75.9	75-125	0			
Manganese	117.1	0.97	6.964	119.9	-39.6	75-125	0			SO
Molybdenum	6.756	0.35	6.964	0.17	94.6	75-125	0			
Nickel	10.24	0.35	6.964	3.413	98.1	75-125	0			
Selenium	5.921	0.35	6.964	0.1979	82.2	75-125	0			
Silver	6.497	0.35	6.964	0.002025	93.3	75-125	0			
Thallium	6.805	0.35	6.964	0.03845	97.2	75-125	0			
Vanadium	15.26	0.35	6.964	6.786	122	75-125	0			
Zinc	15.84	0.70	6.964	9.246	94.7	75-125	0			

MS				Sample ID: 1308937-69AMS			Units: mg/Kg		Analysis Date: 09/03/13 08:02 PM	
Client ID: SO-17360-082213-MR-154				Run ID: ICPMS1_130903B			SeqNo: 2433452		Prep Date: 08/28/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	5.588	0.14	6.964	0.08011	79.1	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50876** Instrument ID **ICPMS1** Method: **SW6020A**

MSD				Sample ID: 1308937-69AMSD			Units: mg/Kg		Analysis Date: 08/29/13 08:45 PM	
Client ID: SO-17360-082213-MR-154				Run ID: ICPMS1_130829A			SeqNo: 2430086		Prep Date: 08/28/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	6.353	0.35	6.954	0.09266	90	75-125	6.458	1.64	25	
Arsenic	6.919	0.35	6.954	1.246	81.6	75-125	7.159	3.4	25	
Barium	22.32	0.83	6.954	14.4	114	75-125	24.62	9.8	25	
Cadmium	6.582	0.14	6.954	0.04578	94	75-125	6.437	2.22	25	
Chromium	10.8	0.35	6.954	3.765	101	75-125	11.72	8.17	25	
Cobalt	7.35	0.35	6.954	1.585	82.9	75-125	7.855	6.64	25	
Copper	9.249	0.35	6.954	3.907	76.8	75-125	9.513	2.81	25	
Iron	4114	35	695.4	4010	15	75-125	5004	19.5	25	SO
Lead	10.7	0.70	6.954	5.19	79.2	75-125	10.47	2.1	25	
Manganese	117.4	0.35	6.954	119.9	-36	75-125	117.1	0.217	25	BSO
Molybdenum	6.693	0.35	6.954	0.17	93.8	75-125	6.756	0.936	25	
Nickel	9.353	0.35	6.954	3.413	85.4	75-125	10.24	9.09	25	
Selenium	5.634	0.35	6.954	0.1979	78.2	75-125	5.921	4.97	25	
Silver	6.394	0.35	6.954	0.002025	91.9	75-125	6.497	1.59	25	
Thallium	6.821	0.35	6.954	0.03845	97.5	75-125	6.805	0.229	25	
Vanadium	12.91	0.35	6.954	6.786	88.1	75-125	15.26	16.7	25	
Zinc	15.13	0.70	6.954	9.246	84.5	75-125	15.84	4.63	25	

MSD				Sample ID: 1308937-69AMSD			Units: mg/Kg		Analysis Date: 09/03/13 08:09 PM	
Client ID: SO-17360-082213-MR-154				Run ID: ICPMS1_130903B			SeqNo: 2433453		Prep Date: 08/28/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	5.453	0.14	6.954	0.08011	77.3	75-125	5.588	2.46	25	

The following samples were analyzed in this batch:

1308937-67A	1308937-68A	1308937-69A
1308937-70A	1308937-71A	1308937-72A
1308937-73A	1308937-74A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50848** Instrument ID **SVMS4** Method: **SW8270**

MBLK		Sample ID: SBLKW1-50848-50848				Units: µg/L		Analysis Date: 08/27/13 02:17 PM		
Client ID:		Run ID: SVMS4_130827A				SeqNo: 2427430		Prep Date: 08/27/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	U	5.0								
2,4,5-Trichlorophenol	U	5.0								
2,4,6-Trichlorophenol	U	5.0								
2,4-Dichlorophenol	U	10								
2,4-Dimethylphenol	U	5.0								
2,4-Dinitrophenol	U	5.0								
2,4-Dinitrotoluene	U	5.0								
2,6-Dinitrotoluene	U	5.0								
2-Chloronaphthalene	U	5.0								
2-Chlorophenol	U	5.0								
2-Methylnaphthalene	U	5.0								
2-Methylphenol	U	5.0								
2-Nitroaniline	U	20								
2-Nitrophenol	U	5.0								
3,3'-Dichlorobenzidine	U	5.0								
3-Nitroaniline	U	20								
4,6-Dinitro-2-methylphenol	U	20								
4-Bromophenyl phenyl ether	U	5.0								
4-Chloro-3-methylphenol	U	5.0								
4-Chloroaniline	U	20								
4-Chlorophenyl phenyl ether	U	5.0								
4-Methylphenol	U	5.0								
4-Nitroaniline	U	20								
4-Nitrophenol	U	20								
Acenaphthene	U	5.0								
Acenaphthylene	U	5.0								
Acetophenone	U	1.0								
Anthracene	U	5.0								
Atrazine	U	1.0								
Benzaldehyde	U	1.0								
Benzo(a)anthracene	U	5.0								
Benzo(a)pyrene	U	5.0								
Benzo(b)fluoranthene	U	5.0								
Benzo(g,h,i)perylene	U	5.0								
Benzo(k)fluoranthene	U	5.0								
Bis(2-chloroethoxy)methane	U	5.0								
Bis(2-chloroethyl)ether	U	5.0								
Bis(2-chloroisopropyl)ether	U	5.0								
Bis(2-ethylhexyl)phthalate	U	5.0								
Butyl benzyl phthalate	U	5.0								
Caprolactam	U	10								
Carbazole	U	10								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50848		Instrument ID SVMS4		Method: SW8270				
Chrysene	U	5.0						
Dibenzo(a,h)anthracene	U	5.0						
Dibenzofuran	U	5.0						
Diethyl phthalate	U	20						
Dimethyl phthalate	U	20						
Di-n-butyl phthalate	U	5.0						
Di-n-octyl phthalate	U	5.0						
Fluoranthene	U	5.0						
Fluorene	U	5.0						
Hexachlorobenzene	U	5.0						
Hexachlorobutadiene	U	5.0						
Hexachlorocyclopentadiene	U	20						
Hexachloroethane	U	5.0						
Indeno(1,2,3-cd)pyrene	U	5.0						
Isophorone	U	5.0						
Naphthalene	U	5.0						
Nitrobenzene	U	5.0						
N-Nitrosodi-n-propylamine	U	5.0						
N-Nitrosodiphenylamine	U	5.0						
Pentachlorophenol	U	20						
Phenanthrene	U	5.0						
Phenol	U	5.0						
Pyrene	U	5.0						
<i>Surr: 2,4,6-Tribromophenol</i>	<i>27.69</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>55.4</i>	<i>38-115</i>	<i>0</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>24.96</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>49.9</i>	<i>32-100</i>	<i>0</i>	
<i>Surr: 2-Fluorophenol</i>	<i>17.37</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>34.7</i>	<i>22-59</i>	<i>0</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>41.82</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>83.6</i>	<i>23-112</i>	<i>0</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>27.57</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>55.1</i>	<i>31-93</i>	<i>0</i>	
<i>Surr: Phenol-d6</i>	<i>10.16</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>20.3</i>	<i>13-36</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50848** Instrument ID **SVMS4** Method: **SW8270**

LCS		Sample ID: SLCSW1-50848-50848				Units: µg/L		Analysis Date: 08/27/13 01:45 PM		
Client ID:		Run ID: SVMS4_130827A				SeqNo: 2427429		Prep Date: 08/27/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	12.54	5.0	20	0	62.7	50-110	0			
2,4,6-Trichlorophenol	12.65	5.0	20	0	63.2	50-115	0			
2,4-Dichlorophenol	13.44	10	20	0	67.2	50-105	0			
2,4-Dimethylphenol	11.58	5.0	20	0	57.9	30-110	0			
2,4-Dinitrophenol	11.51	5.0	20	0	57.6	15-140	0			
2,4-Dinitrotoluene	14.75	5.0	20	0	73.8	50-120	0			
2,6-Dinitrotoluene	14.82	5.0	20	0	74.1	50-115	0			
2-Chloronaphthalene	13.6	5.0	20	0	68	50-105	0			
2-Chlorophenol	13.1	5.0	20	0	65.5	35-105	0			
2-Methylnaphthalene	13.5	5.0	20	0	67.5	45-105	0			
2-Methylphenol	11.52	5.0	20	0	57.6	40-110	0			
2-Nitroaniline	16.49	20	20	0	82.4	50-115	0			J
2-Nitrophenol	12.44	5.0	20	0	62.2	40-115	0			
3-Nitroaniline	13.59	20	20	0	68	20-125	0			J
4,6-Dinitro-2-methylphenol	12.89	20	20	0	64.4	40-130	0			J
4-Bromophenyl phenyl ether	13.83	5.0	20	0	69.2	50-115	0			
4-Chloro-3-methylphenol	13.11	5.0	20	0	65.6	45-110	0			
4-Chloroaniline	17.04	20	20	0	85.2	15-110	0			J
4-Chlorophenyl phenyl ether	13.86	5.0	20	0	69.3	50-110	0			
4-Methylphenol	10.06	5.0	20	0	50.3	30-110	0			
4-Nitroaniline	16.23	20	20	0	81.2	35-150	0			J
4-Nitrophenol	5.83	20	20	0	29.2	1-58	0			J
Acenaphthene	13.43	5.0	20	0	67.2	45-110	0			
Acenaphthylene	13.66	5.0	20	0	68.3	50-105	0			
Anthracene	14.64	5.0	20	0	73.2	55-110	0			
Benzo(a)anthracene	14.93	5.0	20	0	74.6	55-110	0			
Benzo(a)pyrene	16.5	5.0	20	0	82.5	55-110	0			
Benzo(b)fluoranthene	12.94	5.0	20	0	64.7	45-120	0			
Benzo(g,h,i)perylene	19.1	5.0	20	0	95.5	40-125	0			
Benzo(k)fluoranthene	18.03	5.0	20	0	90.2	45-125	0			
Bis(2-chloroethoxy)methane	14.67	5.0	20	0	73.4	45-105	0			
Bis(2-chloroethyl)ether	14.55	5.0	20	0	72.8	35-110	0			
Bis(2-chloroisopropyl)ether	14.42	5.0	20	0	72.1	25-130	0			
Bis(2-ethylhexyl)phthalate	14.92	5.0	20	0	74.6	40-125	0			
Butyl benzyl phthalate	14.55	5.0	20	0	72.8	45-115	0			
Carbazole	16.13	10	20	0	80.6	50-150	0			
Chrysene	15.81	5.0	20	0	79	55-110	0			
Dibenzo(a,h)anthracene	19.23	5.0	20	0	96.2	40-125	0			
Dibenzofuran	14.13	5.0	20	0	70.6	55-105	0			
Diethyl phthalate	15.07	20	20	0	75.4	40-120	0			J
Dimethyl phthalate	15.13	20	20	0	75.6	25-125	0			J
Di-n-butyl phthalate	15.47	5.0	20	0	77.4	55-115	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50848		Instrument ID SVMS4		Method: SW8270				
Di-n-octyl phthalate	16.43	5.0	20	0	82.2	35-135	0	
Fluoranthene	15.07	5.0	20	0	75.4	55-115	0	
Fluorene	13.96	5.0	20	0	69.8	50-110	0	
Hexachlorobenzene	13.48	5.0	20	0	67.4	50-110	0	
Hexachlorobutadiene	14.26	5.0	20	0	71.3	25-105	0	
Hexachlorocyclopentadiene	7.57	20	20	0	37.8	25-105	0	J
Hexachloroethane	14.19	5.0	20	0	71	30-95	0	
Indeno(1,2,3-cd)pyrene	18.86	5.0	20	0	94.3	45-125	0	
Isophorone	14.78	5.0	20	0	73.9	50-110	0	
Naphthalene	13.28	5.0	20	0	66.4	40-100	0	
Nitrobenzene	13.85	5.0	20	0	69.2	45-110	0	
N-Nitrosodi-n-propylamine	15.12	5.0	20	0	75.6	35-130	0	
N-Nitrosodiphenylamine	15.05	5.0	20	0	75.2	50-110	0	
Pentachlorophenol	11.67	20	20	0	58.4	40-115	0	J
Phenanthrene	14.09	5.0	20	0	70.4	50-115	0	
Phenol	5.45	5.0	20	0	27.2	12-43	0	
Pyrene	14.34	5.0	20	0	71.7	50-130	0	
<i>Surr: 2,4,6-Tribromophenol</i>	35.25	0	50	0	70.5	38-115	0	
<i>Surr: 2-Fluorobiphenyl</i>	30.76	0	50	0	61.5	32-100	0	
<i>Surr: 2-Fluorophenol</i>	20.76	0	50	0	41.5	22-59	0	
<i>Surr: 4-Terphenyl-d14</i>	38.42	0	50	0	76.8	23-112	0	
<i>Surr: Nitrobenzene-d5</i>	33.39	0	50	0	66.8	31-93	0	
<i>Surr: Phenol-d6</i>	12.8	0	50	0	25.6	13-36	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50848** Instrument ID **SVMS4** Method: **SW8270**

MS				Sample ID: 1308937-65A MS			Units: µg/L		Analysis Date: 08/27/13 04:37 PM	
Client ID: WG-17360-082113-EB-122				Run ID: SVMS4_130827A			SeqNo: 2427431		Prep Date: 08/27/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	126.2	50	200	0	63.1	50-110	0			
2,4,6-Trichlorophenol	126.9	50	200	0	63.4	50-115	0			
2,4-Dichlorophenol	131.7	100	200	0	65.8	50-105	0			
2,4-Dimethylphenol	119.7	50	200	0	59.8	30-110	0			
2,4-Dinitrophenol	155.1	50	200	0	77.6	15-140	0			
2,4-Dinitrotoluene	144.9	50	200	0	72.4	50-120	0			
2,6-Dinitrotoluene	143.2	50	200	0	71.6	50-115	0			
2-Chloronaphthalene	133.2	50	200	0	66.6	50-105	0			
2-Chlorophenol	134.2	50	200	0	67.1	35-105	0			
2-Methylnaphthalene	132.5	50	200	0	66.2	45-105	0			
2-Methylphenol	117.8	50	200	0	58.9	40-110	0			
2-Nitroaniline	158.9	200	200	0	79.4	50-115	0			J
2-Nitrophenol	125.2	50	200	0	62.6	40-115	0			
3-Nitroaniline	177.2	200	200	0	88.6	20-125	0			J
4,6-Dinitro-2-methylphenol	149.1	200	200	0	74.6	40-130	0			J
4-Bromophenyl phenyl ether	142.2	50	200	0	71.1	50-115	0			
4-Chloro-3-methylphenol	130.1	50	200	0	65	45-110	0			
4-Chloroaniline	160.4	200	200	0	80.2	15-110	0			J
4-Chlorophenyl phenyl ether	141	50	200	0	70.5	50-110	0			
4-Methylphenol	109.5	50	200	0	54.8	30-110	0			
4-Nitroaniline	191.5	200	200	0	95.8	35-150	0			J
4-Nitrophenol	68.4	200	200	0	34.2	1-58	0			J
Acenaphthene	133.1	50	200	0	66.6	45-110	0			
Acenaphthylene	132.9	50	200	0	66.4	50-105	0			
Anthracene	151.8	50	200	0	75.9	55-110	0			
Benzo(a)anthracene	149.6	50	200	0	74.8	55-110	0			
Benzo(a)pyrene	167.9	50	200	0	84	55-110	0			
Benzo(b)fluoranthene	142.3	50	200	0	71.2	45-120	0			
Benzo(g,h,i)perylene	190.1	50	200	0	95	40-125	0			
Benzo(k)fluoranthene	173.7	50	200	0	86.8	45-125	0			
Bis(2-chloroethoxy)methane	137.7	50	200	0	68.8	45-105	0			
Bis(2-chloroethyl)ether	146.6	50	200	0	73.3	35-110	0			
Bis(2-chloroisopropyl)ether	141.7	50	200	0	70.8	25-130	0			
Bis(2-ethylhexyl)phthalate	161	50	200	0	80.5	40-125	0			
Butyl benzyl phthalate	168.2	50	200	0	84.1	45-115	0			
Carbazole	163.9	100	200	0	82	50-150	0			
Chrysene	163.6	50	200	0	81.8	55-110	0			
Dibenzo(a,h)anthracene	182.2	50	200	0	91.1	40-125	0			
Dibenzofuran	138.5	50	200	0	69.2	55-105	0			
Diethyl phthalate	156.4	200	200	2.45	77	40-120	0			J
Dimethyl phthalate	144.6	200	200	0	72.3	25-125	0			J
Di-n-butyl phthalate	163	50	200	0	81.5	55-115	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50848		Instrument ID SVMS4		Method: SW8270			
Di-n-octyl phthalate	171.1	50	200	0	85.6	35-135	0
Fluoranthene	154.6	50	200	0	77.3	55-115	0
Fluorene	142.5	50	200	0	71.2	50-110	0
Hexachlorobenzene	146.5	50	200	0	73.2	50-110	0
Hexachlorobutadiene	131.4	50	200	0	65.7	25-105	0
Hexachlorocyclopentadiene	77.6	200	200	0	38.8	25-105	0
Hexachloroethane	138	50	200	0	69	30-95	0
Indeno(1,2,3-cd)pyrene	183.4	50	200	0	91.7	45-125	0
Isophorone	138.4	50	200	0	69.2	50-110	0
Naphthalene	126.8	50	200	0	63.4	40-100	0
Nitrobenzene	133.2	50	200	0	66.6	45-110	0
N-Nitrosodi-n-propylamine	148.9	50	200	0	74.4	35-130	0
N-Nitrosodiphenylamine	158.1	50	200	0	79	50-110	0
Pentachlorophenol	148.7	200	200	0	74.4	40-115	0
Phenanthrene	144.6	50	200	0	72.3	50-115	0
Phenol	60.3	50	200	0	30.2	12-43	0
Pyrene	156.8	50	200	0	78.4	50-130	0
<i>Surr: 2,4,6-Tribromophenol</i>	352.3	0	500	0	70.5	38-115	0
<i>Surr: 2-Fluorobiphenyl</i>	304.4	0	500	0	60.9	32-100	0
<i>Surr: 2-Fluorophenol</i>	219	0	500	0	43.8	22-59	0
<i>Surr: 4-Terphenyl-d14</i>	445.9	0	500	0	89.2	23-112	0
<i>Surr: Nitrobenzene-d5</i>	326.2	0	500	0	65.2	31-93	0
<i>Surr: Phenol-d6</i>	141.9	0	500	0	28.4	13-36	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50848** Instrument ID **SVMS4** Method: **SW8270**

MSD				Sample ID: 1308937-65A MSD			Units: µg/L		Analysis Date: 08/27/13 05:09 PM	
Client ID: WG-17360-082113-EB-122				Run ID: SVMS4_130827A			SeqNo: 2427432		Prep Date: 08/27/13	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	113	50	200	0	56.5	50-110	126.2	11	30	
2,4,6-Trichlorophenol	114.3	50	200	0	57.2	50-115	126.9	10.4	30	
2,4-Dichlorophenol	116.2	100	200	0	58.1	50-105	131.7	12.5	30	
2,4-Dimethylphenol	102.3	50	200	0	51.2	30-110	119.7	15.7	30	
2,4-Dinitrophenol	143.1	50	200	0	71.6	15-140	155.1	8.05	30	
2,4-Dinitrotoluene	132.3	50	200	0	66.2	50-120	144.9	9.09	30	
2,6-Dinitrotoluene	133.8	50	200	0	66.9	50-115	143.2	6.79	30	
2-Chloronaphthalene	119.1	50	200	0	59.6	50-105	133.2	11.2	30	
2-Chlorophenol	114	50	200	0	57	35-105	134.2	16.3	30	
2-Methylnaphthalene	117.1	50	200	0	58.6	45-105	132.5	12.3	30	
2-Methylphenol	97	50	200	0	48.5	40-110	117.8	19.4	30	
2-Nitroaniline	146.4	200	200	0	73.2	50-115	158.9	0	30	J
2-Nitrophenol	111.8	50	200	0	55.9	40-115	125.2	11.3	30	
3-Nitroaniline	163.6	200	200	0	81.8	20-125	177.2	0	30	J
4,6-Dinitro-2-methylphenol	138.3	200	200	0	69.2	40-130	149.1	0	30	J
4-Bromophenyl phenyl ether	126.8	50	200	0	63.4	50-115	142.2	11.4	30	
4-Chloro-3-methylphenol	118	50	200	0	59	45-110	130.1	9.75	30	
4-Chloroaniline	162.8	200	200	0	81.4	15-110	160.4	0	30	J
4-Chlorophenyl phenyl ether	128.8	50	200	0	64.4	50-110	141	9.04	30	
4-Methylphenol	84.6	50	200	0	42.3	30-110	109.5	25.7	30	
4-Nitroaniline	174	200	200	0	87	35-150	191.5	0	30	J
4-Nitrophenol	32.5	200	200	0	16.2	1-58	68.4	0	0	J
Acenaphthene	120.7	50	200	0	60.4	45-110	133.1	9.77	30	
Acenaphthylene	122.4	50	200	0	61.2	50-105	132.9	8.23	30	
Anthracene	137.5	50	200	0	68.8	55-110	151.8	9.89	30	
Benzo(a)anthracene	135.6	50	200	0	67.8	55-110	149.6	9.82	30	
Benzo(a)pyrene	153.8	50	200	0	76.9	55-110	167.9	8.77	30	
Benzo(b)fluoranthene	132.2	50	200	0	66.1	45-120	142.3	7.36	30	
Benzo(g,h,i)perylene	174.5	50	200	0	87.2	40-125	190.1	8.56	30	
Benzo(k)fluoranthene	153.5	50	200	0	76.8	45-125	173.7	12.3	30	
Bis(2-chloroethoxy)methane	123.1	50	200	0	61.6	45-105	137.7	11.2	30	
Bis(2-chloroethyl)ether	128.7	50	200	0	64.4	35-110	146.6	13	30	
Bis(2-chloroisopropyl)ether	127.6	50	200	0	63.8	25-130	141.7	10.5	30	
Bis(2-ethylhexyl)phthalate	145.9	50	200	0	73	40-125	161	9.84	30	
Butyl benzyl phthalate	153.5	50	200	0	76.8	45-115	168.2	9.14	30	
Carbazole	159.2	100	200	0	79.6	50-150	163.9	2.91	30	
Chrysene	146.6	50	200	0	73.3	55-110	163.6	11	30	
Dibenzo(a,h)anthracene	167.1	50	200	0	83.6	40-125	182.2	8.65	30	
Dibenzofuran	127	50	200	0	63.5	55-105	138.5	8.66	30	
Diethyl phthalate	141.7	200	200	2.45	69.6	40-120	156.4	0	30	J
Dimethyl phthalate	134.8	200	200	0	67.4	25-125	144.6	0	30	J
Di-n-butyl phthalate	151	50	200	0	75.5	55-115	163	7.64	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50848	Instrument ID SVMS4			Method: SW8270					
Di-n-octyl phthalate	155.7	50	200	0	77.8	35-135	171.1	9.42	30
Fluoranthene	139.6	50	200	0	69.8	55-115	154.6	10.2	30
Fluorene	129.4	50	200	0	64.7	50-110	142.5	9.64	30
Hexachlorobenzene	134.5	50	200	0	67.2	50-110	146.5	8.54	30
Hexachlorobutadiene	114	50	200	0	57	25-105	131.4	14.2	30
Hexachlorocyclopentadiene	69.1	200	200	0	34.6	25-105	77.6	0	30 J
Hexachloroethane	120.1	50	200	0	60	30-95	138	13.9	30
Indeno(1,2,3-cd)pyrene	168.5	50	200	0	84.2	45-125	183.4	8.47	30
Isophorone	126.9	50	200	0	63.4	50-110	138.4	8.67	30
Naphthalene	113.7	50	200	0	56.8	40-100	126.8	10.9	30
Nitrobenzene	118.1	50	200	0	59	45-110	133.2	12	30
N-Nitrosodi-n-propylamine	133.1	50	200	0	66.6	35-130	148.9	11.2	30
N-Nitrosodiphenylamine	144.2	50	200	0	72.1	50-110	158.1	9.2	30
Pentachlorophenol	129.3	200	200	0	64.6	40-115	148.7	0	30 J
Phenanthrene	130.4	50	200	0	65.2	50-115	144.6	10.3	30
Phenol	42.3	50	200	0	21.2	12-43	60.3	0	30 J
Pyrene	139.7	50	200	0	69.8	50-130	156.8	11.5	30
<i>Surr: 2,4,6-Tribromophenol</i>	316.2	0	500	0	63.2	38-115	352.3	10.8	40
<i>Surr: 2-Fluorobiphenyl</i>	267.7	0	500	0	53.5	32-100	304.4	12.8	40
<i>Surr: 2-Fluorophenol</i>	163.4	0	500	0	32.7	22-59	219	29.1	40
<i>Surr: 4-Terphenyl-d14</i>	402.9	0	500	0	80.6	23-112	445.9	10.1	40
<i>Surr: Nitrobenzene-d5</i>	288.3	0	500	0	57.7	31-93	326.2	12.3	40
<i>Surr: Phenol-d6</i>	95	0	500	0	19	13-36	141.9	39.6	40

The following samples were analyzed in this batch:

1308937-65A	1308937-66A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50858** Instrument ID **SVMS6** Method: **SW8270**

MBLK		Sample ID: SBLKS1-50858-50858				Units: µg/Kg		Analysis Date: 08/28/13 11:04 AM		
Client ID:		Run ID: SVMS6_130828A				SeqNo: 2429008		Prep Date: 08/27/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	U	330								
2,4,5-Trichlorophenol	U	160								
2,4,6-Trichlorophenol	U	160								
2,4-Dichlorophenol	U	160								
2,4-Dimethylphenol	U	330								
2,4-Dinitrophenol	U	660								
2,4-Dinitrotoluene	U	160								
2,6-Dinitrotoluene	U	160								
2-Chloronaphthalene	U	80								
2-Chlorophenol	U	160								
2-Methylnaphthalene	U	80								
2-Methylphenol	U	160								
2-Nitroaniline	U	660								
2-Nitrophenol	U	160								
3,3'-Dichlorobenzidine	U	660								
3-Nitroaniline	U	660								
4,6-Dinitro-2-methylphenol	U	330								
4-Bromophenyl phenyl ether	U	160								
4-Chloro-3-methylphenol	U	160								
4-Chloroaniline	U	660								
4-Chlorophenyl phenyl ether	U	160								
4-Methylphenol	U	160								
4-Nitroaniline	U	660								
4-Nitrophenol	U	660								
Acenaphthene	U	30								
Acenaphthylene	U	30								
Acetophenone	U	330								
Anthracene	U	30								
Atrazine	U	330								
Benzaldehyde	U	330								
Benzo(a)anthracene	U	30								
Benzo(a)pyrene	U	30								
Benzo(b)fluoranthene	U	30								
Benzo(g,h,i)perylene	U	30								
Benzo(k)fluoranthene	U	30								
Bis(2-chloroethoxy)methane	U	160								
Bis(2-chloroethyl)ether	U	160								
Bis(2-chloroisopropyl)ether	U	160								
Bis(2-ethylhexyl)phthalate	U	330								
Butyl benzyl phthalate	U	160								
Caprolactam	U	330								
Carbazole	U	160								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50858		Instrument ID SVMS6		Method: SW8270				
Chrysene	U	30						
Dibenzo(a,h)anthracene	U	30						
Dibenzofuran	U	160						
Diethyl phthalate	U	330						
Dimethyl phthalate	U	330						
Di-n-butyl phthalate	U	330						
Di-n-octyl phthalate	U	160						
Fluoranthene	U	30						
Fluorene	U	30						
Hexachlorobenzene	U	160						
Hexachlorobutadiene	U	160						
Hexachlorocyclopentadiene	U	330						
Hexachloroethane	U	160						
Indeno(1,2,3-cd)pyrene	U	30						
Isophorone	U	160						
Naphthalene	U	30						
Nitrobenzene	U	160						
N-Nitrosodi-n-propylamine	U	160						
N-Nitrosodiphenylamine	U	160						
Pentachlorophenol	U	330						
Phenanthrene	U	30						
Phenol	U	160						
Pyrene	U	30						
<i>Surr: 2,4,6-Tribromophenol</i>	<i>1247</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>74.8</i>	<i>34-140</i>	<i>0</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>1319</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>79.2</i>	<i>12-100</i>	<i>0</i>	
<i>Surr: 2-Fluorophenol</i>	<i>1744</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>105</i>	<i>33-117</i>	<i>0</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>2011</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>121</i>	<i>25-137</i>	<i>0</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>1265</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>75.9</i>	<i>37-107</i>	<i>0</i>	
<i>Surr: Phenol-d6</i>	<i>1615</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>96.9</i>	<i>40-106</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50858** Instrument ID **SVMS6** Method: **SW8270**

LCS		Sample ID: SLCSS1-50858-50858				Units: µg/Kg		Analysis Date: 08/28/13 11:24 AM		
Client ID:		Run ID: SVMS6_130828A				SeqNo: 2429009		Prep Date: 08/27/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	601.3	160	666.7	0	90.2	50-110	0			
2,4,6-Trichlorophenol	584.3	160	666.7	0	87.6	45-110	0			
2,4-Dichlorophenol	603	160	666.7	0	90.4	45-110	0			
2,4-Dimethylphenol	486	330	666.7	0	72.9	30-105	0			
2,4-Dinitrophenol	599	660	666.7	0	89.8	15-130	0			J
2,4-Dinitrotoluene	613	160	666.7	0	91.9	50-115	0			
2,6-Dinitrotoluene	595.7	160	666.7	0	89.3	50-110	0			
2-Chloronaphthalene	589	80	666.7	0	88.3	45-105	0			
2-Chlorophenol	689.3	160	666.7	0	103	45-105	0			
2-Methylnaphthalene	618.7	80	666.7	0	92.8	45-105	0			
2-Methylphenol	673.7	160	666.7	0	101	40-105	0			
2-Nitroaniline	562.7	660	666.7	0	84.4	45-120	0			J
2-Nitrophenol	616	160	666.7	0	92.4	40-110	0			
3-Nitroaniline	474	660	666.7	0	71.1	25-150	0			J
4-Bromophenyl phenyl ether	608	160	666.7	0	91.2	45-115	0			
4-Chloro-3-methylphenol	605.7	160	666.7	0	90.8	45-115	0			
4-Chloroaniline	400.3	660	666.7	0	60	15-110	0			J
4-Chlorophenyl phenyl ether	624.3	160	666.7	0	93.6	45-110	0			
4-Methylphenol	639.3	160	666.7	0	95.9	40-105	0			
4-Nitroaniline	414	660	666.7	0	62.1	35-150	0			J
4-Nitrophenol	576.7	660	666.7	0	86.5	15-140	0			J
Acenaphthene	602.3	30	666.7	0	90.3	45-110	0			
Acenaphthylene	574.7	30	666.7	0	86.2	45-105	0			
Anthracene	602.7	30	666.7	0	90.4	55-105	0			
Benzo(a)anthracene	693.3	30	666.7	0	104	50-110	0			
Benzo(a)pyrene	650.3	30	666.7	0	97.5	50-110	0			
Benzo(b)fluoranthene	670.3	30	666.7	0	101	45-115	0			
Benzo(g,h,i)perylene	567.3	30	666.7	0	85.1	40-125	0			
Benzo(k)fluoranthene	658	30	666.7	0	98.7	45-115	0			
Bis(2-chloroethoxy)methane	569	160	666.7	0	85.3	45-110	0			
Bis(2-chloroethyl)ether	517	160	666.7	0	77.5	40-105	0			
Bis(2-chloroisopropyl)ether	564.7	160	666.7	0	84.7	20-115	0			
Bis(2-ethylhexyl)phthalate	726.3	330	666.7	0	109	45-125	0			
Butyl benzyl phthalate	673	160	666.7	0	101	50-125	0			
Carbazole	603	160	666.7	0	90.4	50-150	0			
Chrysene	648.3	30	666.7	0	97.2	55-110	0			
Dibenzo(a,h)anthracene	594.3	30	666.7	0	89.1	40-125	0			
Dibenzofuran	597	160	666.7	0	89.5	50-105	0			
Diethyl phthalate	600	330	666.7	0	90	50-115	0			
Dimethyl phthalate	636.7	330	666.7	0	95.5	50-110	0			
Di-n-butyl phthalate	631.7	330	666.7	0	94.7	55-110	0			
Di-n-octyl phthalate	851	160	666.7	0	128	40-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50858		Instrument ID SVMS6		Method: SW8270				
Fluoranthene	594.7	30	666.7	0	89.2	55-115	0	
Fluorene	624.3	30	666.7	0	93.6	50-110	0	
Hexachlorobenzene	633	160	666.7	0	94.9	45-120	0	
Hexachlorobutadiene	566.3	160	666.7	0	84.9	40-115	0	
Hexachlorocyclopentadiene	571.7	330	666.7	0	85.7	40-115	0	
Hexachloroethane	556.7	160	666.7	0	83.5	35-110	0	
Indeno(1,2,3-cd)pyrene	683	30	666.7	0	102	40-120	0	
Isophorone	554.7	160	666.7	0	83.2	45-110	0	
Naphthalene	569.7	30	666.7	0	85.4	40-105	0	
Nitrobenzene	570.3	160	666.7	0	85.5	40-115	0	
N-Nitrosodi-n-propylamine	633.7	160	666.7	0	95	40-115	0	
N-Nitrosodiphenylamine	606.7	160	666.7	0	91	50-115	0	
Pentachlorophenol	593.7	330	666.7	0	89	25-120	0	
Phenanthrene	616	30	666.7	0	92.4	50-110	0	
Phenol	680	160	666.7	0	102	40-100	0	S
Pyrene	753.3	30	666.7	0	113	45-125	0	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>1619</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>97.1</i>	<i>34-140</i>	<i>0</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>1409</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>84.6</i>	<i>12-100</i>	<i>0</i>	
<i>Surr: 2-Fluorophenol</i>	<i>1824</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>109</i>	<i>33-117</i>	<i>0</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>2081</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>125</i>	<i>25-137</i>	<i>0</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>1371</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>82.3</i>	<i>37-107</i>	<i>0</i>	
<i>Surr: Phenol-d6</i>	<i>1697</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>102</i>	<i>40-106</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50858** Instrument ID **SVMS6** Method: **SW8270**

MS				Sample ID: 1308937-64A MS			Units: µg/Kg		Analysis Date: 08/28/13 11:43 AM	
Client ID: SO-017360-082113-MR-114				Run ID: SVMS6_130828A			SeqNo: 2429010		Prep Date: 08/27/13	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	1248	320	1332	0	93.7	50-110	0			
2,4,6-Trichlorophenol	1220	320	1332	0	91.6	45-110	0			
2,4-Dichlorophenol	1200	320	1332	0	90.1	45-110	0			
2,4-Dimethylphenol	890.1	660	1332	0	66.8	30-105	0			
2,4-Dinitrophenol	1238	1,300	1332	0	93	15-130	0			J
2,4-Dinitrotoluene	1220	320	1332	0	91.6	50-115	0			
2,6-Dinitrotoluene	1204	320	1332	0	90.4	50-110	0			
2-Chloronaphthalene	1178	160	1332	0	88.4	45-105	0			
2-Chlorophenol	1358	320	1332	0	102	45-105	0			
2-Methylnaphthalene	1227	160	1332	45.29	88.7	45-105	0			
2-Methylphenol	1325	320	1332	0	99.5	40-105	0			
2-Nitroaniline	1144	1,300	1332	0	85.9	45-120	0			J
2-Nitrophenol	1226	320	1332	0	92	40-110	0			
3-Nitroaniline	978	1,300	1332	0	73.4	25-110	0			J
4-Bromophenyl phenyl ether	1294	320	1332	0	97.1	45-115	0			
4-Chloro-3-methylphenol	1230	320	1332	0	92.3	45-115	0			
4-Chloroaniline	667.7	1,300	1332	0	50.1	15-110	0			J
4-Chlorophenyl phenyl ether	1274	320	1332	0	95.7	45-110	0			
4-Methylphenol	1252	320	1332	0	94	40-105	0			
4-Nitroaniline	1044	1,300	1332	0	78.4	35-150	0			J
4-Nitrophenol	1162	1,300	1332	0	87.3	15-140	0			J
Acenaphthene	1202	60	1332	46.62	86.7	45-110	0			
Acenaphthylene	1140	60	1332	106.6	77.6	45-105	0			
Anthracene	1233	60	1332	144.2	81.8	55-105	0			
Benzo(a)anthracene	1485	60	1332	729.3	56.7	50-110	0			
Benzo(a)pyrene	1362	60	1332	599.7	57.3	50-110	0			
Benzo(b)fluoranthene	1451	60	1332	752.6	52.5	45-115	0			
Benzo(g,h,i)perylene	1189	60	1332	330.7	64.5	40-125	0			
Benzo(k)fluoranthene	1315	60	1332	269.4	78.5	45-115	0			
Bis(2-chloroethoxy)methane	1118	320	1332	0	83.9	45-110	0			
Bis(2-chloroethyl)ether	1027	320	1332	0	77.1	40-105	0			
Bis(2-chloroisopropyl)ether	1146	320	1332	0	86	20-115	0			
Bis(2-ethylhexyl)phthalate	2309	660	1332	0	173	45-125	0			S
Butyl benzyl phthalate	1407	320	1332	0	106	50-125	0			
Carbazole	1157	320	1332	48.62	83.2	50-150	0			
Chrysene	1360	60	1332	554.8	60.5	55-110	0			
Dibenzo(a,h)anthracene	1183	60	1332	133.5	78.8	40-125	0			
Dibenzofuran	1209	320	1332	0	90.8	50-105	0			
Diethyl phthalate	1194	660	1332	0	89.7	50-115	0			
Dimethyl phthalate	1278	660	1332	0	96	50-110	0			
Di-n-butyl phthalate	1274	660	1332	60.61	91.1	55-110	0			
Di-n-octyl phthalate	1730	320	1332	0	130	40-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50858		Instrument ID SVMS6		Method: SW8270					
Fluoranthene	1296	60	1332	974.7	24.1	55-115	0		S
Fluorene	1266	60	1332	28.64	92.9	50-110	0		
Hexachlorobenzene	1304	320	1332	0	97.9	45-120	0		
Hexachlorobutadiene	1128	320	1332	0	84.7	40-115	0		
Hexachlorocyclopentadiene	1166	660	1332	0	87.5	40-115	0		
Hexachloroethane	1092	320	1332	0	82	35-110	0		
Indeno(1,2,3-cd)pyrene	1427	60	1332	457.9	72.8	40-120	0		
Isophorone	1102	320	1332	0	82.8	45-110	0		
Naphthalene	1124	60	1332	57.61	80.1	40-105	0		
Nitrobenzene	1139	320	1332	0	85.5	40-115	0		
N-Nitrosodi-n-propylamine	1274	320	1332	0	95.7	40-115	0		
N-Nitrosodiphenylamine	1280	320	1332	0	96.1	50-115	0		
Pentachlorophenol	1209	660	1332	0	90.8	25-120	0		
Phenanthrene	1287	60	1332	113.6	88.1	50-110	0		
Phenol	1321	320	1332	0	99.2	40-100	0		
Pyrene	1666	60	1332	958	53.2	45-125	0		
<i>Surr: 2,4,6-Tribromophenol</i>	3375	0	3329	0	101	34-140	0		
<i>Surr: 2-Fluorobiphenyl</i>	2885	0	3329	0	86.7	12-100	0		
<i>Surr: 2-Fluorophenol</i>	3644	0	3329	0	109	33-117	0		
<i>Surr: 4-Terphenyl-d14</i>	4195	0	3329	0	126	25-137	0		
<i>Surr: Nitrobenzene-d5</i>	2813	0	3329	0	84.5	37-107	0		
<i>Surr: Phenol-d6</i>	3421	0	3329	0	103	40-106	0		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50858** Instrument ID **SVMS6** Method: **SW8270**

MSD				Sample ID: 1308937-64A MSD			Units: µg/Kg		Analysis Date: 08/28/13 12:02 PM	
Client ID: SO-017360-082113-MR-114				Run ID: SVMS6_130828A			SeqNo: 2429011		Prep Date: 08/27/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	1161	320	1327	0	87.5	50-110	1248	7.18	30	
2,4,6-Trichlorophenol	1133	320	1327	0	85.4	45-110	1220	7.4	30	
2,4-Dichlorophenol	1083	320	1327	0	81.6	45-110	1200	10.3	30	
2,4-Dimethylphenol	884.4	660	1327	0	66.6	30-105	890.1	0.639	30	
2,4-Dinitrophenol	1044	1,300	1327	0	78.7	15-130	1238	0	30	J
2,4-Dinitrotoluene	1139	320	1327	0	85.8	50-115	1220	6.82	30	
2,6-Dinitrotoluene	1120	320	1327	0	84.4	50-110	1204	7.26	30	
2-Chloronaphthalene	1139	160	1327	0	85.8	45-105	1178	3.38	30	
2-Chlorophenol	1221	320	1327	0	92	45-105	1358	10.6	30	
2-Methylnaphthalene	1128	160	1327	45.29	81.6	45-105	1227	8.41	30	
2-Methylphenol	1186	320	1327	0	89.3	40-105	1325	11.1	30	
2-Nitroaniline	1102	1,300	1327	0	83	45-120	1144	0	30	J
2-Nitrophenol	1156	320	1327	0	87.1	40-110	1226	5.86	30	
3-Nitroaniline	999.2	1,300	1327	0	75.3	25-110	978	0	30	J
4-Bromophenyl phenyl ether	1239	320	1327	0	93.3	45-115	1294	4.33	30	
4-Chloro-3-methylphenol	1101	320	1327	0	82.9	45-115	1230	11.1	30	
4-Chloroaniline	684.7	1,300	1327	0	51.6	15-110	667.7	0	30	J
4-Chlorophenyl phenyl ether	1200	320	1327	0	90.4	45-110	1274	5.98	30	
4-Methylphenol	1096	320	1327	0	82.6	40-105	1252	13.2	30	
4-Nitroaniline	1066	1,300	1327	0	80.3	35-150	1044	0	30	J
4-Nitrophenol	1076	1,300	1327	0	81	15-140	1162	0	30	J
Acenaphthene	1152	60	1327	46.62	83.3	45-110	1202	4.24	30	
Acenaphthylene	1125	60	1327	106.6	76.8	45-105	1140	1.34	30	
Anthracene	1237	60	1327	144.2	82.4	55-105	1233	0.361	30	
Benzo(a)anthracene	1741	60	1327	729.3	76.2	50-110	1485	15.9	30	
Benzo(a)pyrene	1531	60	1327	599.7	70.2	50-110	1362	11.7	30	
Benzo(b)fluoranthene	1615	60	1327	752.6	65	45-115	1451	10.7	30	
Benzo(g,h,i)perylene	1336	60	1327	330.7	75.8	40-125	1189	11.7	30	
Benzo(k)fluoranthene	1413	60	1327	269.4	86.1	45-115	1315	7.17	30	
Bis(2-chloroethoxy)methane	1036	320	1327	0	78	45-110	1118	7.62	30	
Bis(2-chloroethyl)ether	953.4	320	1327	0	71.8	40-105	1027	7.39	30	
Bis(2-chloroisopropyl)ether	1048	320	1327	0	78.9	20-115	1146	8.94	30	
Bis(2-ethylhexyl)phthalate	1788	660	1327	0	135	45-125	2309	25.4	30	S
Butyl benzyl phthalate	1404	320	1327	0	106	50-125	1407	0.244	30	
Carbazole	1180	320	1327	48.62	85.3	50-150	1157	1.99	30	
Chrysene	1513	60	1327	554.8	72.2	55-110	1360	10.6	30	
Dibenzo(a,h)anthracene	1251	60	1327	133.5	84.2	40-125	1183	5.56	30	
Dibenzofuran	1145	320	1327	0	86.3	50-105	1209	5.42	30	
Diethyl phthalate	1132	660	1327	0	85.3	50-115	1194	5.37	30	
Dimethyl phthalate	1192	660	1327	0	89.8	50-110	1278	6.96	30	
Di-n-butyl phthalate	1274	660	1327	60.61	91.4	55-110	1274	0.0263	30	
Di-n-octyl phthalate	1787	320	1327	0	135	40-130	1730	3.25	30	S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50858		Instrument ID SVMS6		Method: SW8270						
Fluoranthene	1537	60	1327	974.7	42.4	55-115	1296	17	30	S
Fluorene	1190	60	1327	28.64	87.5	50-110	1266	6.24	30	
Hexachlorobenzene	1288	320	1327	0	97.1	45-120	1304	1.21	30	
Hexachlorobutadiene	1090	320	1327	0	82.1	40-115	1128	3.45	30	
Hexachlorocyclopentadiene	1072	660	1327	0	80.8	40-115	1166	8.36	30	
Hexachloroethane	1056	320	1327	0	79.5	35-110	1092	3.37	30	
Indeno(1,2,3-cd)pyrene	1568	60	1327	457.9	83.7	40-120	1427	9.42	30	
Isophorone	1028	320	1327	0	77.4	45-110	1102	7.02	30	
Naphthalene	1066	60	1327	57.61	76	40-105	1124	5.38	30	
Nitrobenzene	1070	320	1327	0	80.6	40-115	1139	6.3	30	
N-Nitrosodi-n-propylamine	1134	320	1327	0	85.4	40-115	1274	11.7	30	
N-Nitrosodiphenylamine	1259	320	1327	0	94.9	50-115	1280	1.65	30	
Pentachlorophenol	1134	660	1327	0	85.4	25-120	1209	6.41	30	
Phenanthrene	1293	60	1327	113.6	88.9	50-110	1287	0.485	30	
Phenol	1160	320	1327	0	87.4	40-100	1321	13	30	
Pyrene	1881	60	1327	958	69.5	45-125	1666	12.1	30	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>3404</i>	<i>0</i>	<i>3317</i>	<i>0</i>	<i>103</i>	<i>34-140</i>	<i>3375</i>	<i>0.857</i>	<i>40</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>2825</i>	<i>0</i>	<i>3317</i>	<i>0</i>	<i>85.2</i>	<i>12-100</i>	<i>2885</i>	<i>2.11</i>	<i>40</i>	
<i>Surr: 2-Fluorophenol</i>	<i>3337</i>	<i>0</i>	<i>3317</i>	<i>0</i>	<i>101</i>	<i>33-117</i>	<i>3644</i>	<i>8.79</i>	<i>40</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>4220</i>	<i>0</i>	<i>3317</i>	<i>0</i>	<i>127</i>	<i>25-137</i>	<i>4195</i>	<i>0.593</i>	<i>40</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>2705</i>	<i>0</i>	<i>3317</i>	<i>0</i>	<i>81.5</i>	<i>37-107</i>	<i>2813</i>	<i>3.9</i>	<i>40</i>	
<i>Surr: Phenol-d6</i>	<i>3033</i>	<i>0</i>	<i>3317</i>	<i>0</i>	<i>91.4</i>	<i>40-106</i>	<i>3421</i>	<i>12</i>	<i>40</i>	

The following samples were analyzed in this batch:

1308937-63A	1308937-64A	1308937-67A
1308937-68A	1308937-69A	1308937-70A
1308937-71A	1308937-72A	1308937-73A
1308937-74A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50856** Instrument ID **VMS6** Method: **SW8260B**

MBLK		Sample ID: MBLK-50856-50856				Units: µg/Kg		Analysis Date: 08/27/13 04:19 PM		
Client ID:		Run ID: VMS6_130827A				SeqNo: 2427292		Prep Date: 08/27/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
Isopropylbenzene	U	30								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
Styrene	U	30								
Tetrachloroethene	U	30								
Toluene	U	30								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50856	Instrument ID VMS6	Method: SW8260B						
trans-1,2-Dichloroethene	U	30						
trans-1,3-Dichloropropene	U	30						
Trichloroethene	U	30						
Trichlorofluoromethane	U	30						
Vinyl chloride	U	30						
Xylenes, Total	U	90						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1069</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>107</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>1021</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>998</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.8</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>1042</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>104</i>	<i>70-130</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50856** Instrument ID **VMS6** Method: **SW8260B**

LCS				Sample ID: LCS-50856-50856			Units: µg/Kg		Analysis Date: 08/27/13 02:29 PM	
Client ID:				Run ID: VMS6_130827A			SeqNo: 2427290		Prep Date: 08/27/13	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1026	30	1000	0	103	70-135	0			
1,1,2,2-Tetrachloroethane	1005	30	1000	0	100	55-130	0			
1,1,2-Trichloroethane	941	30	1000	0	94.1	60-125	0			
1,1-Dichloroethane	975.5	30	1000	0	97.6	75-125	0			
1,1-Dichloroethene	1034	30	1000	0	103	65-135	0			
1,2,4-Trichlorobenzene	937	30	1000	0	93.7	65-130	0			
1,2-Dibromo-3-chloropropane	927.5	30	1000	0	92.8	40-135	0			
1,2-Dibromoethane	1286	30	1000	0	129	70-125	0			S
1,2-Dichlorobenzene	937	30	1000	0	93.7	75-120	0			
1,2-Dichloroethane	974.5	30	1000	0	97.4	70-135	0			
1,2-Dichloropropane	980.5	30	1000	0	98	70-120	0			
1,3-Dichlorobenzene	948.5	30	1000	0	94.8	70-125	0			
1,4-Dichlorobenzene	919	30	1000	0	91.9	70-125	0			
2-Butanone	1048	200	1000	0	105	30-160	0			
2-Hexanone	1028	30	1000	0	103	45-145	0			
4-Methyl-2-pentanone	1320	30	1000	0	132	45-145	0			
Acetone	1061	100	1000	0	106	20-160	0			
Benzene	1024	30	1000	0	102	75-125	0			
Bromodichloromethane	1064	30	1000	0	106	70-130	0			
Bromoform	740	30	1000	0	74	55-135	0			
Bromomethane	289.5	75	1000	0	29	30-160	0			S
Carbon disulfide	958	30	1000	0	95.8	45-160	0			
Carbon tetrachloride	860	30	1000	0	86	65-135	0			
Chlorobenzene	981.5	30	1000	0	98.2	75-125	0			
Chloroethane	853.5	100	1000	0	85.4	40-155	0			
Chloroform	1002	30	1000	0	100	70-125	0			
Chloromethane	606	100	1000	0	60.6	50-130	0			
cis-1,2-Dichloroethene	990	30	1000	0	99	65-125	0			
cis-1,3-Dichloropropene	1048	30	1000	0	105	70-125	0			
Dibromochloromethane	730	30	1000	0	73	65-135	0			
Dichlorodifluoromethane	683.5	30	1000	0	68.4	35-135	0			
Ethylbenzene	998.5	30	1000	0	99.8	75-125	0			
Isopropylbenzene	1018	30	1000	0	102	75-130	0			
Methyl tert-butyl ether	1042	30	1000	0	104	75-125	0			
Methylene chloride	909.5	30	1000	0	91	55-145	0			
Styrene	1018	30	1000	0	102	75-125	0			
Tetrachloroethene	1004	30	1000	0	100	64-140	0			
Toluene	941	30	1000	0	94.1	70-125	0			
trans-1,2-Dichloroethene	1019	30	1000	0	102	65-135	0			
trans-1,3-Dichloropropene	992.5	30	1000	0	99.2	65-125	0			
Trichloroethene	1030	30	1000	0	103	75-125	0			
Trichlorofluoromethane	934	30	1000	0	93.4	25-185	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50856	Instrument ID VMS6	Method: SW8260B					
Vinyl chloride	707.5	30	1000	0	70.8	60-125	0
Xylenes, Total	2996	90	3000	0	99.8	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1018</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1052</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>105</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>1048</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>105</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>1012</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50856** Instrument ID **VMS6** Method: **SW8260B**

MS				Sample ID: 1308937-68B MS			Units: µg/Kg		Analysis Date: 08/28/13 12:33 PM	
Client ID: SO-17360-082213-MR-153				Run ID: VMS6_130827B			SeqNo: 2427725		Prep Date: 08/27/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	988.9	32	1053	0	94	70-135	0			
1,1,2,2-Tetrachloroethane	959.5	32	1053	0	91.2	55-130	0			
1,1,2-Trichloroethane	971.1	32	1053	0	92.2	60-125	0			
1,1-Dichloroethane	982.6	32	1053	0	93.4	75-125	0			
1,1-Dichloroethene	968.4	32	1053	0	92	65-135	0			
1,2,4-Trichlorobenzene	944.2	32	1053	0	89.7	65-130	0			
1,2-Dibromo-3-chloropropane	741.1	32	1053	0	70.4	40-135	0			
1,2-Dibromoethane	1301	32	1053	0	124	70-125	0			
1,2-Dichlorobenzene	995.3	32	1053	0	94.6	75-120	0			
1,2-Dichloroethane	1018	32	1053	0	96.7	70-135	0			
1,2-Dichloropropane	997.9	32	1053	0	94.8	70-120	0			
1,3-Dichlorobenzene	963.2	32	1053	0	91.5	70-125	0			
1,4-Dichlorobenzene	958.9	32	1053	0	91.1	70-125	0			
2-Butanone	1072	210	1053	0	102	30-160	0			
2-Hexanone	913.2	32	1053	0	86.8	45-145	0			
4-Methyl-2-pentanone	1202	32	1053	0	114	45-145	0			
Acetone	1239	110	1053	0	118	20-160	0			
Benzene	1074	32	1053	0	102	75-125	0			
Bromodichloromethane	976.3	32	1053	0	92.8	70-130	0			
Bromoform	628.9	32	1053	0	59.8	55-135	0			
Bromomethane	185.8	79	1053	0	17.6	30-160	0			S
Carbon disulfide	781.1	32	1053	0	74.2	45-160	0			
Carbon tetrachloride	879.5	32	1053	0	83.6	65-135	0			
Chlorobenzene	1035	32	1053	0	98.3	75-125	0			
Chloroethane	871.1	110	1053	0	82.8	40-155	0			
Chloroform	1018	32	1053	0	96.8	70-125	0			
Chloromethane	691.6	110	1053	0	65.7	50-130	0			
cis-1,2-Dichloroethene	970	32	1053	0	92.2	65-125	0			
cis-1,3-Dichloropropene	984.7	32	1053	0	93.6	70-125	0			
Dibromochloromethane	635.3	32	1053	0	60.4	65-135	0			S
Dichlorodifluoromethane	598.9	32	1053	0	56.9	35-135	0			
Ethylbenzene	1029	32	1053	0	97.8	75-125	0			
Isopropylbenzene	1046	32	1053	0	99.4	75-130	0			
Methyl tert-butyl ether	1059	32	1053	0	101	75-125	0			
Methylene chloride	973.2	32	1053	0	92.4	55-145	0			
Styrene	1078	32	1053	0	102	75-125	0			
Tetrachloroethene	1022	32	1053	0	97.1	64-140	0			
Toluene	975.8	32	1053	0	92.7	70-125	0			
trans-1,2-Dichloroethene	1024	32	1053	0	97.3	65-135	0			
trans-1,3-Dichloropropene	890	32	1053	0	84.6	65-125	0			
Trichloroethene	1058	32	1053	0	101	75-125	0			
Trichlorofluoromethane	855.3	32	1053	0	81.2	25-185	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50856	Instrument ID VMS6	Method: SW8260B					
Vinyl chloride	686.8	32	1053	0	65.2	60-125	0
Xylenes, Total	3112	95	3158	0	98.5	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1048</i>	<i>0</i>	<i>1053</i>	<i>0</i>	<i>99.6</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1102</i>	<i>0</i>	<i>1053</i>	<i>0</i>	<i>105</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>1083</i>	<i>0</i>	<i>1053</i>	<i>0</i>	<i>103</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>1052</i>	<i>0</i>	<i>1053</i>	<i>0</i>	<i>99.9</i>	<i>70-130</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50856** Instrument ID **VMS6** Method: **SW8260B**

MSD				Sample ID: 1308937-68B MSD			Units: µg/Kg		Analysis Date: 08/28/13 01:00 PM	
Client ID: SO-17360-082213-MR-153				Run ID: VMS6_130827B			SeqNo: 2427726		Prep Date: 08/27/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	985.8	32	1053	0	93.6	70-135	988.9	0.32	30	
1,1,2,2-Tetrachloroethane	945.3	32	1053	0	89.8	55-130	959.5	1.49	30	
1,1,2-Trichloroethane	981.1	32	1053	0	93.2	60-125	971.1	1.02	30	
1,1-Dichloroethane	968.4	32	1053	0	92	75-125	982.6	1.46	30	
1,1-Dichloroethene	920.5	32	1053	0	87.4	65-135	968.4	5.07	30	
1,2,4-Trichlorobenzene	1009	32	1053	0	95.8	65-130	944.2	6.63	30	
1,2-Dibromo-3-chloropropane	781.1	32	1053	0	74.2	40-135	741.1	5.26	30	
1,2-Dibromoethane	1312	32	1053	0	125	70-125	1301	0.806	30	
1,2-Dichlorobenzene	1014	32	1053	0	96.3	75-120	995.3	1.83	30	
1,2-Dichloroethane	987.9	32	1053	0	93.8	70-135	1018	2.99	30	
1,2-Dichloropropane	974.7	32	1053	0	92.6	70-120	997.9	2.35	30	
1,3-Dichlorobenzene	979.5	32	1053	0	93	70-125	963.2	1.68	30	
1,4-Dichlorobenzene	968.4	32	1053	0	92	70-125	958.9	0.983	30	
2-Butanone	1035	210	1053	0	98.4	30-160	1072	3.45	30	
2-Hexanone	914.2	32	1053	0	86.8	45-145	913.2	0.115	30	
4-Methyl-2-pentanone	1230	32	1053	0	117	45-145	1202	2.29	30	
Acetone	1146	110	1053	0	109	20-160	1239	7.86	30	
Benzene	1041	32	1053	0	98.8	75-125	1074	3.14	30	
Bromodichloromethane	982.1	32	1053	0	93.3	70-130	976.3	0.591	30	
Bromoform	630.5	32	1053	0	59.9	55-135	628.9	0.251	30	
Bromomethane	211.1	79	1053	0	20	30-160	185.8	12.7	30	S
Carbon disulfide	748.4	32	1053	0	71.1	45-160	781.1	4.27	30	
Carbon tetrachloride	866.3	32	1053	0	82.3	65-135	879.5	1.51	30	
Chlorobenzene	1016	32	1053	0	96.5	75-125	1035	1.85	30	
Chloroethane	802.1	110	1053	0	76.2	40-155	871.1	8.24	30	
Chloroform	1021	32	1053	0	97	70-125	1018	0.207	30	
Chloromethane	680	110	1053	0	64.6	50-130	691.6	1.69	30	
cis-1,2-Dichloroethene	942.1	32	1053	0	89.5	65-125	970	2.92	30	
cis-1,3-Dichloropropene	973.7	32	1053	0	92.5	70-125	984.7	1.13	30	
Dibromochloromethane	667.4	32	1053	0	63.4	65-135	635.3	4.93	30	S
Dichlorodifluoromethane	590.5	32	1053	0	56.1	35-135	598.9	1.42	30	
Ethylbenzene	1008	32	1053	0	95.8	75-125	1029	2.07	30	
Isopropylbenzene	1049	32	1053	0	99.7	75-130	1046	0.352	30	
Methyl tert-butyl ether	1058	32	1053	0	101	75-125	1059	0.0994	30	
Methylene chloride	948.4	32	1053	0	90.1	55-145	973.2	2.57	30	
Styrene	1051	32	1053	0	99.8	75-125	1078	2.57	30	
Tetrachloroethene	997.4	32	1053	0	94.8	64-140	1022	2.45	30	
Toluene	964.7	32	1053	0	91.6	70-125	975.8	1.14	30	
trans-1,2-Dichloroethene	956.3	32	1053	0	90.8	65-135	1024	6.86	30	
trans-1,3-Dichloropropene	902.1	32	1053	0	85.7	65-125	890	1.35	30	
Trichloroethene	1010	32	1053	0	96	75-125	1058	4.68	30	
Trichlorofluoromethane	807.4	32	1053	0	76.7	25-185	855.3	5.76	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50856	Instrument ID VMS6	Method: SW8260B							
Vinyl chloride	691.1	32	1053	0	65.6	60-125	686.8	0.611	30
Xylenes, Total	3056	95	3158	0	96.8	75-125	3112	1.79	30
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1038</i>	<i>0</i>	<i>1053</i>	<i>0</i>	<i>98.6</i>	<i>70-130</i>	<i>1048</i>	<i>0.959</i>	<i>30</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1125</i>	<i>0</i>	<i>1053</i>	<i>0</i>	<i>107</i>	<i>70-130</i>	<i>1102</i>	<i>2.08</i>	<i>30</i>
<i>Surr: Dibromofluoromethane</i>	<i>1086</i>	<i>0</i>	<i>1053</i>	<i>0</i>	<i>103</i>	<i>70-130</i>	<i>1083</i>	<i>0.291</i>	<i>30</i>
<i>Surr: Toluene-d8</i>	<i>1069</i>	<i>0</i>	<i>1053</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>1052</i>	<i>1.64</i>	<i>30</i>

The following samples were analyzed in this batch:

1308937-63B	1308937-64B	1308937-67B
1308937-68B	1308937-69B	1308937-70B
1308937-71B	1308937-72B	1308937-73B
1308937-74B	1308937-75A	1308937-76A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50857** Instrument ID **VMS6** Method: **SW8260B**

MBLK		Sample ID: MBLK-50857-50857				Units: µg/Kg		Analysis Date: 08/27/13 04:47 PM		
Client ID:		Run ID: VMS6_130827A				SeqNo: 2427293		Prep Date: 08/27/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	74.5	100								J
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
Isopropylbenzene	U	30								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
Styrene	U	30								
Tetrachloroethene	U	30								
Toluene	U	30								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50857	Instrument ID VMS6	Method: SW8260B						
trans-1,2-Dichloroethene	U	30						
trans-1,3-Dichloropropene	U	30						
Trichloroethene	U	30						
Trichlorofluoromethane	U	30						
Vinyl chloride	U	30						
Xylenes, Total	U	90						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1056</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>106</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>1012</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>990</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>1018</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50857** Instrument ID **VMS6** Method: **SW8260B**

LCS Sample ID: LCS-50857-50857				Units: µg/Kg			Analysis Date: 08/27/13 02:56 PM			
Client ID:		Run ID: VMS6_130827A		SeqNo: 2427291		Prep Date: 08/27/13		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1061	30	1000	0	106	70-135	0			
1,1,2,2-Tetrachloroethane	1028	30	1000	0	103	55-130	0			
1,1,2-Trichloroethane	977.5	30	1000	0	97.8	60-125	0			
1,1-Dichloroethane	998.5	30	1000	0	99.8	75-125	0			
1,1-Dichloroethene	1040	30	1000	0	104	65-135	0			
1,2,4-Trichlorobenzene	952	30	1000	0	95.2	65-130	0			
1,2-Dibromo-3-chloropropane	976	30	1000	0	97.6	40-135	0			
1,2-Dibromoethane	1342	30	1000	0	134	70-125	0			S
1,2-Dichlorobenzene	990	30	1000	0	99	75-120	0			
1,2-Dichloroethane	996.5	30	1000	0	99.6	70-135	0			
1,2-Dichloropropane	973.5	30	1000	0	97.4	70-120	0			
1,3-Dichlorobenzene	981	30	1000	0	98.1	70-125	0			
1,4-Dichlorobenzene	955.5	30	1000	0	95.6	70-125	0			
2-Butanone	1150	200	1000	0	115	30-160	0			
2-Hexanone	1084	30	1000	0	108	45-145	0			
4-Methyl-2-pentanone	1354	30	1000	0	135	45-145	0			
Acetone	1110	100	1000	0	111	20-160	0			
Benzene	1043	30	1000	0	104	75-125	0			
Bromodichloromethane	1069	30	1000	0	107	70-130	0			
Bromoform	760.5	30	1000	0	76	55-135	0			
Bromomethane	312	75	1000	0	31.2	30-160	0			
Carbon disulfide	949.5	30	1000	0	95	45-160	0			
Carbon tetrachloride	866	30	1000	0	86.6	65-135	0			
Chlorobenzene	1013	30	1000	0	101	75-125	0			
Chloroethane	859.5	100	1000	0	86	40-155	0			
Chloroform	1036	30	1000	0	104	70-125	0			
Chloromethane	555	100	1000	0	55.5	50-130	0			
cis-1,2-Dichloroethene	1020	30	1000	0	102	65-125	0			
cis-1,3-Dichloropropene	1073	30	1000	0	107	70-125	0			
Dibromochloromethane	732	30	1000	0	73.2	65-135	0			
Dichlorodifluoromethane	698	30	1000	0	69.8	35-135	0			
Ethylbenzene	1037	30	1000	0	104	75-125	0			
Isopropylbenzene	1054	30	1000	0	105	75-130	0			
Methyl tert-butyl ether	1086	30	1000	0	109	75-125	0			
Methylene chloride	944.5	30	1000	0	94.4	55-145	0			
Styrene	1058	30	1000	0	106	75-125	0			
Tetrachloroethene	1048	30	1000	0	105	64-140	0			
Toluene	961.5	30	1000	0	96.2	70-125	0			
trans-1,2-Dichloroethene	1020	30	1000	0	102	65-135	0			
trans-1,3-Dichloropropene	1010	30	1000	0	101	65-125	0			
Trichloroethene	1059	30	1000	0	106	75-125	0			
Trichlorofluoromethane	941	30	1000	0	94.1	25-185	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50857	Instrument ID VMS6		Method: SW8260B				
Vinyl chloride	710	30	1000	0	71	60-125	0
Xylenes, Total	3096	90	3000	0	103	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>995</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.5</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1034</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>103</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>1040</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>104</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>991.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.2</i>	<i>70-130</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50857** Instrument ID **VMS6** Method: **SW8260B**

MS				Sample ID: 1308940-02A MS			Units: µg/Kg		Analysis Date: 08/29/13 04:36 AM	
Client ID:				Run ID: VMS5_130828B			SeqNo: 2428827		Prep Date: 08/27/13	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	878	30	1000	0	87.8	70-135	0			
1,1,2,2-Tetrachloroethane	743	30	1000	0	74.3	55-130	0			
1,1,2-Trichloroethane	859	30	1000	0	85.9	60-125	0			
1,1-Dichloroethane	851	30	1000	0	85.1	75-125	0			
1,1-Dichloroethene	901.5	30	1000	0	90.2	65-135	0			
1,2,4-Trichlorobenzene	899	30	1000	0	89.9	65-130	0			
1,2-Dibromo-3-chloropropane	692.5	30	1000	0	69.2	40-135	0			
1,2-Dibromoethane	905.5	30	1000	0	90.6	70-125	0			
1,2-Dichlorobenzene	950.5	30	1000	0	95	75-120	0			
1,2-Dichloroethane	901	30	1000	0	90.1	70-135	0			
1,2-Dichloropropane	874	30	1000	0	87.4	70-120	0			
1,3-Dichlorobenzene	924	30	1000	0	92.4	70-125	0			
1,4-Dichlorobenzene	900.5	30	1000	0	90	70-125	0			
2-Butanone	654	200	1000	0	65.4	30-160	0			
2-Hexanone	694.5	30	1000	0	69.4	45-145	0			
4-Methyl-2-pentanone	987.5	30	1000	0	98.8	45-145	0			
Acetone	737	100	1000	0	73.7	20-160	0			
Benzene	896	30	1000	0	89.6	75-125	0			
Bromodichloromethane	813.5	30	1000	0	81.4	70-130	0			
Bromoform	761	30	1000	0	76.1	55-135	0			
Bromomethane	224.5	75	1000	0	22.4	30-160	0			S
Carbon disulfide	872.5	30	1000	0	87.2	45-160	0			
Carbon tetrachloride	892	30	1000	0	89.2	65-135	0			
Chlorobenzene	911	30	1000	0	91.1	75-125	0			
Chloroethane	431.5	100	1000	0	43.2	40-155	0			
Chloroform	900.5	30	1000	0	90	70-125	0			
Chloromethane	751	100	1000	0	75.1	50-130	0			
cis-1,2-Dichloroethene	827.5	30	1000	0	82.8	65-125	0			
cis-1,3-Dichloropropene	822.5	30	1000	0	82.2	70-125	0			
Dibromochloromethane	819.5	30	1000	0	82	65-135	0			
Dichlorodifluoromethane	605.5	30	1000	0	60.6	35-135	0			
Ethylbenzene	882	30	1000	0	88.2	75-125	0			
Isopropylbenzene	937.5	30	1000	0	93.8	75-130	0			
Methyl tert-butyl ether	782	30	1000	0	78.2	75-125	0			
Methylene chloride	890.5	30	1000	0	89	55-145	0			
Styrene	895	30	1000	0	89.5	75-125	0			
Tetrachloroethene	928.5	30	1000	0	92.8	64-140	0			
Toluene	888	30	1000	0	88.8	70-125	0			
trans-1,2-Dichloroethene	889.5	30	1000	0	89	65-135	0			
trans-1,3-Dichloropropene	847.5	30	1000	0	84.8	65-125	0			
Trichloroethene	917.5	30	1000	0	91.8	75-125	0			
Trichlorofluoromethane	873	30	1000	0	87.3	25-185	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50857	Instrument ID VMS6	Method: SW8260B					
Vinyl chloride	743	30	1000	0	74.3	60-125	0
Xylenes, Total	2698	90	3000	0	89.9	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	976	0	1000	0	97.6	70-130	0
<i>Surr: 4-Bromofluorobenzene</i>	993	0	1000	0	99.3	70-130	0
<i>Surr: Dibromofluoromethane</i>	984	0	1000	0	98.4	70-130	0
<i>Surr: Toluene-d8</i>	993.5	0	1000	0	99.4	70-130	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50857** Instrument ID **VMS6** Method: **SW8260B**

MSD				Sample ID: 1308940-02A MSD			Units: µg/Kg		Analysis Date: 08/29/13 04:59 AM	
Client ID:				Run ID: VMS5_130828B			SeqNo: 2428828		Prep Date: 08/27/13	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	885	30	1000	0	88.5	70-135	878	0.794	30	
1,1,2,2-Tetrachloroethane	770.5	30	1000	0	77	55-130	743	3.63	30	
1,1,2-Trichloroethane	892.5	30	1000	0	89.2	60-125	859	3.83	30	
1,1-Dichloroethane	851.5	30	1000	0	85.2	75-125	851	0.0587	30	
1,1-Dichloroethene	892	30	1000	0	89.2	65-135	901.5	1.06	30	
1,2,4-Trichlorobenzene	1090	30	1000	0	109	65-130	899	19.2	30	
1,2-Dibromo-3-chloropropane	721	30	1000	0	72.1	40-135	692.5	4.03	30	
1,2-Dibromoethane	929.5	30	1000	0	93	70-125	905.5	2.62	30	
1,2-Dichlorobenzene	1024	30	1000	0	102	75-120	950.5	7.49	30	
1,2-Dichloroethane	916	30	1000	0	91.6	70-135	901	1.65	30	
1,2-Dichloropropane	885	30	1000	0	88.5	70-120	874	1.25	30	
1,3-Dichlorobenzene	980.5	30	1000	0	98	70-125	924	5.93	30	
1,4-Dichlorobenzene	962.5	30	1000	0	96.2	70-125	900.5	6.66	30	
2-Butanone	661	200	1000	0	66.1	30-160	654	1.06	30	
2-Hexanone	765.5	30	1000	0	76.6	45-145	694.5	9.73	30	
4-Methyl-2-pentanone	1029	30	1000	0	103	45-145	987.5	4.12	30	
Acetone	719.5	100	1000	0	72	20-160	737	2.4	30	
Benzene	898	30	1000	0	89.8	75-125	896	0.223	30	
Bromodichloromethane	832	30	1000	0	83.2	70-130	813.5	2.25	30	
Bromoform	790.5	30	1000	0	79	55-135	761	3.8	30	
Bromomethane	484	75	1000	0	48.4	30-160	224.5	73.3	30	R
Carbon disulfide	846.5	30	1000	0	84.6	45-160	872.5	3.03	30	
Carbon tetrachloride	902	30	1000	0	90.2	65-135	892	1.11	30	
Chlorobenzene	935	30	1000	0	93.5	75-125	911	2.6	30	
Chloroethane	422.5	100	1000	0	42.2	40-155	431.5	2.11	30	
Chloroform	916.5	30	1000	0	91.6	70-125	900.5	1.76	30	
Chloromethane	791.5	100	1000	0	79.2	50-130	751	5.25	30	
cis-1,2-Dichloroethene	839.5	30	1000	0	84	65-125	827.5	1.44	30	
cis-1,3-Dichloropropene	834.5	30	1000	0	83.4	70-125	822.5	1.45	30	
Dibromochloromethane	848.5	30	1000	0	84.8	65-135	819.5	3.48	30	
Dichlorodifluoromethane	613	30	1000	0	61.3	35-135	605.5	1.23	30	
Ethylbenzene	911	30	1000	0	91.1	75-125	882	3.23	30	
Isopropylbenzene	998	30	1000	0	99.8	75-130	937.5	6.25	30	
Methyl tert-butyl ether	790	30	1000	0	79	75-125	782	1.02	30	
Methylene chloride	917	30	1000	0	91.7	55-145	890.5	2.93	30	
Styrene	928	30	1000	0	92.8	75-125	895	3.62	30	
Tetrachloroethene	950.5	30	1000	0	95	64-140	928.5	2.34	30	
Toluene	902.5	30	1000	0	90.2	70-125	888	1.62	30	
trans-1,2-Dichloroethene	892.5	30	1000	0	89.2	65-135	889.5	0.337	30	
trans-1,3-Dichloropropene	856.5	30	1000	0	85.6	65-125	847.5	1.06	30	
Trichloroethene	902.5	30	1000	0	90.2	75-125	917.5	1.65	30	
Trichlorofluoromethane	822.5	30	1000	0	82.2	25-185	873	5.96	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50857			Instrument ID VMS6			Method: SW8260B			
Vinyl chloride	752.5	30	1000	0	75.2	60-125	743	1.27	30
Xylenes, Total	2784	90	3000	0	92.8	75-125	2698	3.14	30
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>969.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97</i>	<i>70-130</i>	<i>976</i>	<i>0.668</i>	<i>30</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1004</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>993</i>	<i>1.15</i>	<i>30</i>
<i>Surr: Dibromofluoromethane</i>	<i>987.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.8</i>	<i>70-130</i>	<i>984</i>	<i>0.355</i>	<i>30</i>
<i>Surr: Toluene-d8</i>	<i>994.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.4</i>	<i>70-130</i>	<i>993.5</i>	<i>0.101</i>	<i>30</i>

The following samples were analyzed in this batch: | 1308937-77A | 1308937-78A | 1308937-79A |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **R125758** Instrument ID **VMS6** Method: **SW8260**

MBLK		Sample ID: VBLKW2-130827-R125758				Units: µg/L		Analysis Date: 08/28/13 04:01 AM		
Client ID:		Run ID: VMS6_130827B				SeqNo: 2427374		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,1,2-Trichlorotrifluoroethane	U	1.0								
1,1-Dichloroethane	U	1.0								
1,1-Dichloroethene	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2-Dibromoethane	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,2-Dichloropropane	U	2.0								
1,3-Dichlorobenzene	U	2.0								
1,4-Dichlorobenzene	U	2.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Acetone	U	20								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	2.5								
Carbon tetrachloride	U	1.0								
Chlorobenzene	U	1.0								
Chloroethane	U	1.0								
Chloroform	U	1.0								
Chloromethane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	1.0								
Dichlorodifluoromethane	U	1.0								
Ethylbenzene	U	1.0								
Isopropylbenzene	U	1.0								
Methyl acetate	U	2.0								
Methyl tert-butyl ether	U	5.0								
Methylcyclohexane	U	5.0								
Methylene chloride	U	5.0								
Styrene	U	1.0								
Tetrachloroethene	U	2.0								
Toluene	U	1.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: R125758		Instrument ID VMS6		Method: SW8260				
trans-1,2-Dichloroethene		U	1.0					
trans-1,3-Dichloropropene		U	1.0					
Trichloroethene		U	1.0					
Trichlorofluoromethane		U	1.0					
Vinyl chloride		U	1.0					
Xylenes, Total		U	3.0					
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>20.07</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>70-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>19.69</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98.4</i>	<i>75-120</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>		<i>20.12</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>		<i>19.45</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.2</i>	<i>85-120</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **R125758** Instrument ID **VMS6** Method: **SW8260**

LCS		Sample ID: VLCSW2-130827-R125758				Units: µg/L		Analysis Date: 08/28/13 03:08 AM		
Client ID:		Run ID: VMS6_130827B				SeqNo: 2427373		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	22.24	1.0	20	0	111	65-130	0			
1,1,2,2-Tetrachloroethane	20.15	1.0	20	0	101	65-130	0			
1,1,2-Trichloroethane	19.38	1.0	20	0	96.9	75-125	0			
1,1-Dichloroethane	20.01	1.0	20	0	100	70-135	0			
1,1-Dichloroethene	20.39	1.0	20	0	102	70-130	0			
1,2,4-Trichlorobenzene	19.73	1.0	20	0	98.6	65-135	0			
1,2-Dibromo-3-chloropropane	18.46	1.0	20	0	92.3	50-130	0			
1,2-Dibromoethane	26.59	1.0	20	0	133	80-120	0			S
1,2-Dichlorobenzene	19.99	1.0	20	0	100	70-120	0			
1,2-Dichloroethane	19.99	1.0	20	0	100	70-130	0			
1,2-Dichloropropane	20.01	2.0	20	0	100	75-125	0			
1,3-Dichlorobenzene	19.71	2.0	20	0	98.6	75-125	0			
1,4-Dichlorobenzene	19.59	2.0	20	0	98	75-125	0			
2-Butanone	19.52	5.0	20	0	97.6	30-150	0			
2-Hexanone	19.84	5.0	20	0	99.2	55-130	0			
4-Methyl-2-pentanone	24.69	5.0	20	0	123	60-135	0			
Acetone	22.46	20	20	0	112	40-140	0			
Benzene	21.62	1.0	20	0	108	80-120	0			
Bromodichloromethane	22.52	1.0	20	0	113	75-120	0			
Bromoform	15.5	1.0	20	0	77.5	70-130	0			
Bromomethane	11.07	1.0	20	0	55.4	30-145	0			
Carbon disulfide	19.9	2.5	20	0	99.5	35-165	0			
Carbon tetrachloride	19.97	1.0	20	0	99.8	65-140	0			
Chlorobenzene	20.91	1.0	20	0	105	80-120	0			
Chloroethane	17.48	1.0	20	0	87.4	60-135	0			
Chloroform	20.9	1.0	20	0	104	65-135	0			
Chloromethane	14.14	1.0	20	0	70.7	70-125	0			
cis-1,2-Dichloroethene	19.59	1.0	20	0	98	70-125	0			
cis-1,3-Dichloropropene	20.94	1.0	20	0	105	70-130	0			
Dibromochloromethane	15.32	1.0	20	0	76.6	60-135	0			
Dichlorodifluoromethane	15.26	1.0	20	0	76.3	30-155	0			
Ethylbenzene	21.07	1.0	20	0	105	75-125	0			
Isopropylbenzene	21.65	1.0	20	0	108	75-125	0			
Methyl tert-butyl ether	21.03	5.0	20	0	105	65-125	0			
Methylene chloride	18.16	5.0	20	0	90.8	55-140	0			
Styrene	21.55	1.0	20	0	108	65-135	0			
Tetrachloroethene	22.08	2.0	20	0	110	45-150	0			
Toluene	19.74	1.0	20	0	98.7	75-120	0			
trans-1,2-Dichloroethene	20.33	1.0	20	0	102	60-140	0			
trans-1,3-Dichloropropene	19.69	1.0	20	0	98.4	55-140	0			
Trichloroethene	22.45	1.0	20	0	112	70-125	0			
Trichlorofluoromethane	18.83	1.0	20	0	94.2	60-145	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: R125758	Instrument ID VMS6	Method: SW8260					
Vinyl chloride	16.34	1.0	20	0	81.7	50-145	0
Xylenes, Total	63.25	3.0	60	0	105	75-130	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.29</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96.4</i>	<i>70-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.69</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>103</i>	<i>75-120</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>21.44</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>107</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>19.66</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98.3</i>	<i>85-120</i>	<i>0</i>

The following samples were analyzed in this batch: | 1308937-65B | 1308937-66B |

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **R125763** Instrument ID **VMS7** Method: **SW8260**

MBLK		Sample ID: VBLKW1-130828-R125763				Units: µg/L		Analysis Date: 08/28/13 12:10 PM		
Client ID:		Run ID: VMS7_130828A				SeqNo: 2428872		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,1,2-Trichlorotrifluoroethane	U	1.0								
1,1-Dichloroethane	U	1.0								
1,1-Dichloroethene	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2-Dibromoethane	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,2-Dichloropropane	U	2.0								
1,3-Dichlorobenzene	U	2.0								
1,4-Dichlorobenzene	U	2.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Acetone	U	20								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	2.5								
Carbon tetrachloride	U	1.0								
Chlorobenzene	U	1.0								
Chloroethane	U	1.0								
Chloroform	U	1.0								
Chloromethane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	1.0								
Dichlorodifluoromethane	U	1.0								
Ethylbenzene	U	1.0								
Isopropylbenzene	U	1.0								
Methyl acetate	U	2.0								
Methyl tert-butyl ether	U	5.0								
Methylcyclohexane	U	5.0								
Methylene chloride	U	5.0								
Styrene	U	1.0								
Tetrachloroethene	U	2.0								
Toluene	U	1.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: R125763	Instrument ID VMS7	Method: SW8260						
trans-1,2-Dichloroethene	U	1.0						
trans-1,3-Dichloropropene	U	1.0						
Trichloroethene	U	1.0						
Trichlorofluoromethane	U	1.0						
Vinyl chloride	U	1.0						
Xylenes, Total	U	3.0						
<i>Surr: 1,2-Dichloroethane-d4</i>	20.25	0	20	0	101	70-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	20.19	0	20	0	101	75-120	0	
<i>Surr: Dibromofluoromethane</i>	19.49	0	20	0	97.4	85-115	0	
<i>Surr: Toluene-d8</i>	20.23	0	20	0	101	85-120	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **R125763** Instrument ID **VMS7** Method: **SW8260**

LCS		Sample ID: VLCSW1-130828-R125763				Units: µg/L		Analysis Date: 08/28/13 10:31 AM		
Client ID:		Run ID: VMS7_130828A				SeqNo: 2428871		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	19.6	1.0	20	0	98	65-130	0			
1,1,2,2-Tetrachloroethane	19.13	1.0	20	0	95.6	65-130	0			
1,1,2-Trichloroethane	20.31	1.0	20	0	102	75-125	0			
1,1-Dichloroethane	19.15	1.0	20	0	95.8	70-135	0			
1,1-Dichloroethene	18.67	1.0	20	0	93.4	70-130	0			
1,2,4-Trichlorobenzene	23.55	1.0	20	0	118	65-135	0			
1,2-Dibromo-3-chloropropane	20.2	1.0	20	0	101	50-130	0			
1,2-Dibromoethane	21.06	1.0	20	0	105	80-120	0			
1,2-Dichlorobenzene	20.68	1.0	20	0	103	70-120	0			
1,2-Dichloroethane	20.86	1.0	20	0	104	70-130	0			
1,2-Dichloropropane	20.29	2.0	20	0	101	75-125	0			
1,3-Dichlorobenzene	20.65	2.0	20	0	103	75-125	0			
1,4-Dichlorobenzene	20.4	2.0	20	0	102	75-125	0			
2-Butanone	18.57	5.0	20	0	92.8	30-150	0			
2-Hexanone	19.89	5.0	20	0	99.4	55-130	0			
4-Methyl-2-pentanone	27.36	5.0	20	0	137	60-135	0			S
Acetone	16.84	20	20	0	84.2	40-140	0			J
Benzene	20.07	1.0	20	0	100	80-120	0			
Bromodichloromethane	21.51	1.0	20	0	108	75-120	0			
Bromoform	20.63	1.0	20	0	103	70-130	0			
Bromomethane	17.23	1.0	20	0	86.2	30-145	0			
Carbon disulfide	19.6	2.5	20	0	98	35-165	0			
Carbon tetrachloride	19.65	1.0	20	0	98.2	65-140	0			
Chlorobenzene	20.19	1.0	20	0	101	80-120	0			
Chloroethane	33.93	1.0	20	0	170	60-135	0			S
Chloroform	19.76	1.0	20	0	98.8	65-135	0			
Chloromethane	16.82	1.0	20	0	84.1	70-125	0			
cis-1,2-Dichloroethene	19.57	1.0	20	0	97.8	70-125	0			
cis-1,3-Dichloropropene	21.46	1.0	20	0	107	70-130	0			
Dibromochloromethane	21.02	1.0	20	0	105	60-135	0			
Dichlorodifluoromethane	13.21	1.0	20	0	66	30-155	0			
Ethylbenzene	20.29	1.0	20	0	101	75-125	0			
Isopropylbenzene	20.39	1.0	20	0	102	75-125	0			
Methyl tert-butyl ether	18.9	5.0	20	0	94.5	65-125	0			
Methylene chloride	21.89	5.0	20	0	109	55-140	0			
Styrene	21.21	1.0	20	0	106	65-135	0			
Tetrachloroethene	20.64	2.0	20	0	103	45-150	0			
Toluene	19.31	1.0	20	0	96.6	75-120	0			
trans-1,2-Dichloroethene	20.34	1.0	20	0	102	60-140	0			
trans-1,3-Dichloropropene	21.28	1.0	20	0	106	55-140	0			
Trichloroethene	21.14	1.0	20	0	106	70-125	0			
Trichlorofluoromethane	16.53	1.0	20	0	82.6	60-145	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: R125763	Instrument ID VMS7			Method: SW8260			
Vinyl chloride	17.08	1.0	20	0	85.4	50-145	0
Xylenes, Total	60.47	3.0	60	0	101	75-130	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.87</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.4</i>	<i>70-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.32</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>102</i>	<i>75-120</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>20.29</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>20.18</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>85-120</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **R125763** Instrument ID **VMS7** Method: **SW8260**

MS				Sample ID: 1308937-65B MS			Units: µg/L		Analysis Date: 08/28/13 08:43 PM	
Client ID: WG-17360-082113-EB-122				Run ID: VMS7_130828A			SeqNo: 2428886		Prep Date:	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	16.68	1.0	20	0	83.4	65-130	0			
1,1,2,2-Tetrachloroethane	14.03	1.0	20	0	70.2	65-130	0			
1,1,2-Trichloroethane	15.74	1.0	20	0	78.7	75-125	0			
1,1-Dichloroethane	16.01	1.0	20	0	80	70-135	0			
1,1-Dichloroethene	16.56	1.0	20	0	82.8	70-130	0			
1,2,4-Trichlorobenzene	15.33	1.0	20	0	76.6	65-135	0			
1,2-Dibromo-3-chloropropane	13.51	1.0	20	0	67.6	50-130	0			
1,2-Dibromoethane	15.55	1.0	20	0	77.8	80-120	0			S
1,2-Dichlorobenzene	15.36	1.0	20	0	76.8	70-120	0			
1,2-Dichloroethane	16.36	1.0	20	0	81.8	70-130	0			
1,2-Dichloropropane	15.87	2.0	20	0	79.4	75-125	0			
1,3-Dichlorobenzene	15.27	2.0	20	0	76.4	75-125	0			
1,4-Dichlorobenzene	15.2	2.0	20	0	76	75-125	0			
2-Butanone	14.09	5.0	20	0	70.4	30-150	0			
2-Hexanone	14.97	5.0	20	0	74.8	55-130	0			
4-Methyl-2-pentanone	20.12	5.0	20	0	101	60-135	0			
Acetone	14.93	20	20	0	74.6	40-140	0			J
Benzene	16.81	1.0	20	0	84	80-120	0			
Bromodichloromethane	16.32	1.0	20	0	81.6	75-120	0			
Bromoform	14.11	1.0	20	0	70.6	70-130	0			
Bromomethane	14.46	1.0	20	0	72.3	30-145	0			
Carbon disulfide	17.49	2.5	20	0	87.4	35-165	0			
Carbon tetrachloride	17.78	1.0	20	0	88.9	65-140	0			
Chlorobenzene	16.42	1.0	20	0	82.1	80-120	0			
Chloroethane	45.08	1.0	20	0	225	60-135	0			S
Chloroform	16.46	1.0	20	0	82.3	65-135	0			
Chloromethane	14.36	1.0	20	0	71.8	70-125	0			
cis-1,2-Dichloroethene	16.22	1.0	20	0	81.1	70-125	0			
cis-1,3-Dichloropropene	15.71	1.0	20	0	78.6	70-130	0			
Dibromochloromethane	14.89	1.0	20	0	74.4	60-135	0			
Dichlorodifluoromethane	12.69	1.0	20	0	63.4	30-155	0			
Ethylbenzene	17.85	1.0	20	0	89.2	75-125	0			
Isopropylbenzene	16.64	1.0	20	0	83.2	75-125	0			
Methyl tert-butyl ether	14.56	5.0	20	0	72.8	65-125	0			
Methylene chloride	16.7	5.0	20	0	83.5	55-140	0			
Styrene	16.27	1.0	20	0	81.4	65-135	0			
Tetrachloroethene	17.42	2.0	20	0	87.1	45-150	0			
Toluene	16.39	1.0	20	0	82	75-120	0			
trans-1,2-Dichloroethene	17.46	1.0	20	0	87.3	60-140	0			
trans-1,3-Dichloropropene	15.33	1.0	20	0	76.6	55-140	0			
Trichloroethene	17.3	1.0	20	0	86.5	70-125	0			
Trichlorofluoromethane	15.9	1.0	20	0	79.5	60-145	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: R125763	Instrument ID VMS7		Method: SW8260				
Vinyl chloride	15.43	1.0	20	0	77.2	50-145	0
Xylenes, Total	51.5	3.0	60	0	85.8	75-130	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.88</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.4</i>	<i>70-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.17</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>75-120</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>20.44</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>102</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>20.41</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>102</i>	<i>85-120</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **R125763** Instrument ID **VMS7** Method: **SW8260**

MSD					Sample ID: 1308937-65B MSD			Units: µg/L		Analysis Date: 08/28/13 09:09 PM	
Client ID: WG-17360-082113-EB-122				Run ID: VMS7_130828A			SeqNo: 2428887		Prep Date: DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	16.84	1.0	20	0	84.2	65-130	16.68	0.955	30		
1,1,2,2-Tetrachloroethane	13.5	1.0	20	0	67.5	65-130	14.03	3.85	30		
1,1,2-Trichloroethane	15.4	1.0	20	0	77	75-125	15.74	2.18	30		
1,1-Dichloroethane	15.97	1.0	20	0	79.8	70-135	16.01	0.25	30		
1,1-Dichloroethene	16.34	1.0	20	0	81.7	70-130	16.56	1.34	30		
1,2,4-Trichlorobenzene	16.4	1.0	20	0	82	65-135	15.33	6.74	30		
1,2-Dibromo-3-chloropropane	14.09	1.0	20	0	70.4	50-130	13.51	4.2	30		
1,2-Dibromoethane	15.71	1.0	20	0	78.6	80-120	15.55	1.02	30	S	
1,2-Dichlorobenzene	15.83	1.0	20	0	79.2	70-120	15.36	3.01	30		
1,2-Dichloroethane	16.01	1.0	20	0	80	70-130	16.36	2.16	30		
1,2-Dichloropropane	15.87	2.0	20	0	79.4	75-125	15.87	0	30		
1,3-Dichlorobenzene	15.99	2.0	20	0	80	75-125	15.27	4.61	30		
1,4-Dichlorobenzene	15.61	2.0	20	0	78	75-125	15.2	2.66	30		
2-Butanone	12.92	5.0	20	0	64.6	30-150	14.09	8.66	30		
2-Hexanone	14.88	5.0	20	0	74.4	55-130	14.97	0.603	30		
4-Methyl-2-pentanone	19.31	5.0	20	0	96.6	60-135	20.12	4.11	30		
Acetone	12.45	20	20	0	62.2	40-140	14.93	0	30	J	
Benzene	16.82	1.0	20	0	84.1	80-120	16.81	0.0595	30		
Bromodichloromethane	16.66	1.0	20	0	83.3	75-120	16.32	2.06	30		
Bromoform	14.3	1.0	20	0	71.5	70-130	14.11	1.34	30		
Bromomethane	16.48	1.0	20	0	82.4	30-145	14.46	13.1	30		
Carbon disulfide	17.25	2.5	20	0	86.2	35-165	17.49	1.38	30		
Carbon tetrachloride	17.2	1.0	20	0	86	65-140	17.78	3.32	30		
Chlorobenzene	16.09	1.0	20	0	80.4	80-120	16.42	2.03	30		
Chloroethane	45.65	1.0	20	0	228	60-135	45.08	1.26	30	S	
Chloroform	16.21	1.0	20	0	81	65-135	16.46	1.53	30		
Chloromethane	13.84	1.0	20	0	69.2	70-125	14.36	3.69	30	S	
cis-1,2-Dichloroethene	16.1	1.0	20	0	80.5	70-125	16.22	0.743	30		
cis-1,3-Dichloropropene	15.9	1.0	20	0	79.5	70-130	15.71	1.2	30		
Dibromochloromethane	15.03	1.0	20	0	75.2	60-135	14.89	0.936	30		
Dichlorodifluoromethane	12.38	1.0	20	0	61.9	30-155	12.69	2.47	30		
Ethylbenzene	16.83	1.0	20	0	84.2	75-125	17.85	5.88	30		
Isopropylbenzene	16.38	1.0	20	0	81.9	75-125	16.64	1.57	30		
Methyl tert-butyl ether	14.36	5.0	20	0	71.8	65-125	14.56	1.38	30		
Methylene chloride	16.7	5.0	20	0	83.5	55-140	16.7	0	30		
Styrene	16.64	1.0	20	0	83.2	65-135	16.27	2.25	30		
Tetrachloroethene	17.49	2.0	20	0	87.4	45-150	17.42	0.401	30		
Toluene	16.51	1.0	20	0	82.6	75-120	16.39	0.729	30		
trans-1,2-Dichloroethene	17.31	1.0	20	0	86.6	60-140	17.46	0.863	30		
trans-1,3-Dichloropropene	15.86	1.0	20	0	79.3	55-140	15.33	3.4	30		
Trichloroethene	17.01	1.0	20	0	85	70-125	17.3	1.69	30		
Trichlorofluoromethane	15.15	1.0	20	0	75.8	60-145	15.9	4.83	30		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: R125763		Instrument ID VMS7		Method: SW8260					
Vinyl chloride	15.33	1.0	20	0	76.6	50-145	15.43	0.65	30
Xylenes, Total	50.24	3.0	60	0	83.7	75-130	51.5	2.48	30
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>20.17</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>70-120</i>	<i>19.88</i>	<i>1.45</i>	<i>30</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.08</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>75-120</i>	<i>20.17</i>	<i>0.447</i>	<i>30</i>
<i>Surr: Dibromofluoromethane</i>	<i>20.44</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>102</i>	<i>85-115</i>	<i>20.44</i>	<i>0</i>	<i>30</i>
<i>Surr: Toluene-d8</i>	<i>20.52</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>103</i>	<i>85-120</i>	<i>20.41</i>	<i>0.538</i>	<i>30</i>

The following samples were analyzed in this batch: | 1308937-65B |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **R125637** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R125637				Units: % of sample		Analysis Date: 08/24/13 03:15 PM		
Client ID:		Run ID: MOIST_130824B				SeqNo: 2424912		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	0.03	0.050								J

LCS		Sample ID: LCS-R125637				Units: % of sample		Analysis Date: 08/24/13 03:15 PM		
Client ID:		Run ID: MOIST_130824B				SeqNo: 2424908		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100	0	100	99.5-100.5	0			

DUP		Sample ID: 1308937-01A DUP				Units: % of sample		Analysis Date: 08/24/13 03:15 PM		
Client ID: SO-017360-081913-MR-001		Run ID: MOIST_130824B				SeqNo: 2424843		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	2.67	0.050	0	0	0	0-0	2.56	4.21	20	

DUP		Sample ID: 1308937-11a dup				Units: % of sample		Analysis Date: 08/24/13 03:15 PM		
Client ID: SO-017360-081913-MR-011		Run ID: MOIST_130824B				SeqNo: 2424883		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	3.51	0.050	0	0	0	0-0	3.69	5	20	

The following samples were analyzed in this batch:

1308937-01A	1308937-02A	1308937-03A
1308937-04A	1308937-05A	1308937-06A
1308937-07A	1308937-08A	1308937-09A
1308937-10A	1308937-11A	1308937-12A
1308937-13A	1308937-14A	1308937-15A
1308937-16A	1308937-17A	1308937-18A
1308937-19A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **R125677** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R125677				Units: % of sample		Analysis Date: 08/25/13 02:45 PM		
Client ID:		Run ID: MOIST_130825A				SeqNo: 2425615		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.050

LCS		Sample ID: LCS-R125677				Units: % of sample		Analysis Date: 08/25/13 02:45 PM		
Client ID:		Run ID: MOIST_130825A				SeqNo: 2425611		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP		Sample ID: 1308937-20A DUP				Units: % of sample		Analysis Date: 08/25/13 02:45 PM		
Client ID: SO-017360-081913-MR-021		Run ID: MOIST_130825A				SeqNo: 2425589		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 3.61 0.050 0 0 0 0-0 3.13 14.2 20

DUP		Sample ID: 1308937-23A dup				Units: % of sample		Analysis Date: 08/25/13 02:45 PM		
Client ID: SO-017360-081913-MR-024		Run ID: MOIST_130825A				SeqNo: 2425593		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 5.34 0.050 0 0 0 0-0 5.27 1.32 20

The following samples were analyzed in this batch:

1308937-20A	1308937-21A	1308937-22A
1308937-23A	1308937-24A	1308937-25A
1308937-26A	1308937-27A	1308937-28A
1308937-29A	1308937-30A	1308937-31A
1308937-32A	1308937-33A	1308937-34A
1308937-35A	1308937-36A	1308937-37A
1308937-38A	1308937-39A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **R125678** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R125678				Units: % of sample		Analysis Date: 08/25/13 03:30 PM		
Client ID:		Run ID: MOIST_130825B				SeqNo: 2425644		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	0.03	0.050								J

LCS		Sample ID: LCS-R125678				Units: % of sample		Analysis Date: 08/25/13 03:30 PM		
Client ID:		Run ID: MOIST_130825B				SeqNo: 2425640		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100	0	100	99.5-100.5	0			

DUP		Sample ID: 1308937-41A DUP				Units: % of sample		Analysis Date: 08/25/13 03:30 PM		
Client ID: SO-017360-081913-MR-043		Run ID: MOIST_130825B				SeqNo: 2425619		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	4.9	0.050	0	0	0	0-0	4.37	11.4	20	

DUP		Sample ID: 1308937-59A DUP				Units: % of sample		Analysis Date: 08/25/13 03:30 PM		
Client ID: SO-017360-081913-MR-062		Run ID: MOIST_130825B				SeqNo: 2425638		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	2	0.050	0	0	0	0-0	2.11	5.35	20	

The following samples were analyzed in this batch:

1308937-40A	1308937-41A	1308937-42A
1308937-43A	1308937-44A	1308937-45A
1308937-46A	1308937-47A	1308937-48A
1308937-49A	1308937-50A	1308937-51A
1308937-52A	1308937-53A	1308937-54A
1308937-55A	1308937-56A	1308937-57A
1308937-58A	1308937-59A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **R125752** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R125752				Units: % of sample		Analysis Date: 08/26/13 07:30 PM		
Client ID:		Run ID: MOIST_130826B				SeqNo: 2427048		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.050

LCS		Sample ID: LCS-R125752				Units: % of sample		Analysis Date: 08/26/13 07:30 PM		
Client ID:		Run ID: MOIST_130826B				SeqNo: 2427047		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP		Sample ID: 1308852-01A DUP				Units: % of sample		Analysis Date: 08/26/13 07:30 PM		
Client ID:		Run ID: MOIST_130826B				SeqNo: 2427028		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 29.32 0.050 0 0 0 0-0 28.97 1.2 20

DUP		Sample ID: 1308854-01A DUP				Units: % of sample		Analysis Date: 08/26/13 07:30 PM		
Client ID:		Run ID: MOIST_130826B				SeqNo: 2427033		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 39.58 0.050 0 0 0 0-0 39.27 0.786 20

The following samples were analyzed in this batch:

1308937-60A	1308937-61A	1308937-62A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **R125773** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R125773				Units: % of sample		Analysis Date: 08/27/13 09:30 AM		
Client ID:		Run ID: MOIST_130827B				SeqNo: 2427654		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	0.03	0.050								J

LCS		Sample ID: LCS-R125773				Units: % of sample		Analysis Date: 08/27/13 09:30 AM		
Client ID:		Run ID: MOIST_130827B				SeqNo: 2427653		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100	0	100	99.5-100.5	0			

DUP		Sample ID: 1308927-01ADUP				Units: % of sample		Analysis Date: 08/27/13 09:30 AM		
Client ID:		Run ID: MOIST_130827B				SeqNo: 2427628		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	11.27	0.050	0	0	0	0-0	10.55	6.6	20	

DUP		Sample ID: 1308936-39BDUP				Units: % of sample		Analysis Date: 08/27/13 09:30 AM		
Client ID:		Run ID: MOIST_130827B				SeqNo: 2427642		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	9.72	0.050	0	0	0	0-0	10.1	3.83	20	

The following samples were analyzed in this batch:

1308937-63A	1308937-64A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308937
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **R125842** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R125842				Units: % of sample		Analysis Date: 08/28/13		
Client ID:		Run ID: MOIST_130828B				SeqNo: 2429198		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.050

LCS		Sample ID: LCS-R125842				Units: % of sample		Analysis Date: 08/28/13		
Client ID:		Run ID: MOIST_130828B				SeqNo: 2429188		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP		Sample ID: 1308937-70A Dup				Units: % of sample		Analysis Date: 08/28/13		
Client ID: SO-17360-082213-MR-155		Run ID: MOIST_130828B				SeqNo: 2429164		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 3.1 0.050 0 0 0 0-0 2.89 7.01 20

DUP		Sample ID: 1308940-02B Dup				Units: % of sample		Analysis Date: 08/28/13		
Client ID:		Run ID: MOIST_130828B				SeqNo: 2429171		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 5.08 0.050 0 0 0 0-0 5.63 10.3 20

The following samples were analyzed in this batch:

1308937-67A	1308937-68A	1308937-69A
1308937-70A	1308937-71A	1308937-72A
1308937-73A	1308937-74A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



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1308937

COC NO.: **PL-10101**

PAGE 1 OF 12

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017360				Laboratory Name: ALS				Lab Location: Holland, MI				SSOW ID: 17360-TOS-019																									
Project Name: Former Grand Rapids Metal Plant				Lab Contact: Tom Beamish				Lab Quote No:				Cooler No:																									
Project Location: Wyoming, MI				SAMPLE TYPE <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Matrix Code (see back of COC)</th> <th>Grab (G) or Comp (C)</th> <th>Unpreserved</th> <th>Hydrochloric Acid (HCl)</th> <th>Nitric Acid (HNO₃)</th> <th>Sulfuric Acid (H₂SO₄)</th> <th>Sodium Hydroxide (NaOH)</th> <th>Methanol/Water (Soil VOC)</th> <th>EnCores 3x5-g, 1x25-g</th> <th>Other:</th> <th>Total Containers/Sample</th> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>				Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample												ANALYSIS REQUESTED (See Back of COC for Definitions)				Carrier: CRA			
Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)					Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample																							
Chemistry Contact: Tom Beamish Paul Wiseman												Airbill No:																									
Sampler(s): Matt Ramsey												Date Shipped: 8/23/13																									
												COMMENTS/ SPECIAL INSTRUCTIONS:																									

Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yy)	TIME (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	MS/MSD Request
1	50-017360-081913-MR -001	8/19/13	1124	SO	G	1								1	X
2	-002		1126												
3	-003		1128												
4	-004		1130												
5	-005		1132												
6	-006		1134												
7	-007		1136												
8	-008		1138												
9	-009		1140												
10	-010		1150												
11	-011		1152												
12	-012		1154												
13	-013		1156												
14	-014		1158												
15	-015		1200												

TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:				Total Number of Containers: 15		Notes/ Special Requirements:	
All Samples in Cooler must be on COC							

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
Matt Ramsey	CRA	8/23/13		[Signature]	ALS	8/23/13	1615

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COC NO.: **PL-10102**

PAGE **2** OF **12**

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017360				Laboratory Name: ALS				Lab Location: Holland, MI				SSOW ID: 17360-T05-0A					
Project Name: Former Grand Rapids Metal Plant				Lab Contact: Tom Beamish				Lab Quote No:				Cooler No:					
Project Location: Wyoming, MI				SAMPLE TYPE				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)					
Chemistry Contact: Paul Wiseman				Matrix Code (see back of COC) Grab (G) or Comp (C)				Unpreserved Hydrochloric Acid (HCl) Nitric Acid (HNO ₃) Sulfuric Acid (H ₂ SO ₄) Sodium Hydroxide (NaOH) Methanol/Water (Soil VOC) EnCores 3x5-g, 1x25-g Other:				Total Containers/Sample PCBs					
Sampler(s): Math Ramsey																	
Carrier: CRA				Airbill No:				Date Shipped: 8/23/13				COMMENTS/ SPECIAL INSTRUCTIONS:					
Airbill No:				Date Shipped: 8/23/13													
Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yyyy)	TIME (hh:mm)	Matrix Code	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	PCBs	MS/MSD Request	
1	SO-017360-081913-MR- 016	8/19/13	1202	50	G	3								3	X	X	
2	-018		1206			1								1			
3	-019		1240			1								1			
4	-020		1242			1								1			
5	-021		1244			1								1			
6	-022		1246			1								1			
7	-023		1248			1								1			
8	-024		1250			3								3		X	
9	-026		1254			1								1			
10	-027		1320			1								1			
11	-028		1322			1								1			
12	-029		1324			1								1			
13	-030		1326			1								1			
14	-031		1328			1								1			
15	-032		1330			1								1			
TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:				Total Number of Containers: 19				Notes/ Special Requirements:									
All Samples in Cooler must be on COC																	
RELINQUISHED BY		COMPANY		DATE		TIME		RECEIVED BY		COMPANY		DATE		TIME			
1. Math Ramsey		CRA		8/23/13				1. Tom Beamish		ALS		8/23/13		1615			
2.								2.									
3.								3.									

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COC NO.: **PL-10103**

PAGE **3** OF **12**

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017360				Laboratory Name: ALS				Lab Location: Holland, MI				SSOW ID: 17360-T05-19							
Project Name: Former Grand Rapids Metal Plant				Lab Contact: Don Bernish				Lab Quote No:				Cooler No:							
Project Location: Wyoming, MI				SAMPLE TYPE				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)							
Chemistry Contact: Paul Wiseman				Matrix Code (see back of COC) Grab (G) or Comp (C)				Unpreserved Hydrochloric Acid (HCl) Nitric Acid (HNO ₃) Sulfuric Acid (H ₂ SO ₄) Sodium Hydroxide (NaOH) Methanol/Water (Soil VOC) EnCores 3x5-g, 1x25-g Other:				Total Containers/Sample PCBs							
Sampler(s): Matt Ramsey																			
Carrier: CRA				Airbill No:				Date Shipped: 8/23/13				COMMENTS/ SPECIAL INSTRUCTIONS:							
Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)			DATE (mm/dd/yy)	TIME (hh:mm)	Matrix Code	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	PCBs	MS/MSD Request	
31	1	50-017360-081913-NR-033			8/19/13	1332	50	G	1							1	X		
32	2	-034				-1350													
33	3	-035				1352													
34	4	-036				1354													
35	5	-037				1356													
36	6	-038				1358													
37	7	-039				1400													
38	8	-040				1402													
39	9	-041				1404													
40	10	-042				1425			✓										
41	11	-043				1427			3							3		X	
42	12	-044				1431			1							1			
43	13	-045				1433													
44	14	-046				1435													
45	15	-047				1437													
TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:								Total Number of Containers: 17				Notes/ Special Requirements:							
All Samples in Cooler must be on COC																			
RELINQUISHED BY		COMPANY		DATE		TIME		RECEIVED BY		COMPANY		DATE		TIME					
1. Matt Ramsey		CRA		8/23/13				1. [Signature]		ALS		8/23/13		1615					
2.								2.											
3.								3.											

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COC NO.: **PL-10104**

PAGE **4** OF **12**

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017360				Laboratory Name: ALS				Lab Location: Holland, MI				SSOW ID: 17360-T05-19																					
Project Name: Former Grand Rapids Metal Plant				Lab Contact: Tom Beamish				Lab Quote No:				Cooler No:																					
Project Location: Wyoming, MI				SAMPLE TYPE CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)				Carrier: CRA																					
Chemistry Contact: Paul Wiseman				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Matrix Code (see back of COC)</th> <th>Grab (G) or Comp (C)</th> <th>Unpreserved</th> <th>Hydrochloric Acid (HCl)</th> <th>Nitric Acid (HNO₃)</th> <th>Sulfuric Acid (H₂SO₄)</th> <th>Sodium Hydroxide (NaOH)</th> <th>Methanol/Water (Soil VOC)</th> <th>EnCores 3x5-g, 1x25-g</th> <th>Other:</th> <th>Total Containers/Sample</th> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>				Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample												Airbill No:			
Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)					Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample																			
Sampler(s): Matt Ramsey								Date Shipped: 8/23/13				COMMENTS/ SPECIAL INSTRUCTIONS:																					

Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yy)	TIME (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	MS/MSD Request
46	50-17360-081913-MR-049	8/19/13	1439	50	G	1								1	X
47	-050		1441												
48	-051		1443												
49	-052		1445												
50	-053		1447												
51	-054		1449												
52	-055		1451												
53	-056		1453												
54	-057		1455												
55	-058		1510												
56	-059		1512												
57	-060		1514												
58	-061		1516												
59	-062		1518			3								3	X
60	-064		1522			1								1	

TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:				Total Number of Containers: 17		Notes/ Special Requirements:	
All Samples in Cooler must be on COC							

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
1. Matt Ramsey	CRA	8/23/13		1. [Signature]	ALS	8/23/13	1615
2.				2.			
3.				3.			

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(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017360							Laboratory Name: ALS								Lab Location: Holland, MI									SSOW ID: 17360-TOS-19												
Project Name: Former Grand Rapids Metal Plant							Lab Contact: Tom BEAMISH								Lab Quote No:									Cooler No:												
Project Location: Wyoming, Mt							SAMPLE TYPE		CONTAINER QUANTITY & PRESERVATION								ANALYSIS REQUESTED (See Back of COC for Definitions)									Carrier: CRA										
Chemistry Contact: Paul Wiseman							Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	PCBs	TEL VOCs	TCL SVOCs	PNAAs	TAC Metals						Airbill No:								
Sampler(s): Matt Ramsey / Earl Bicknburg																												M&MSD Request	Date Shipped: 8/23/13							
Item SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)							DATE (mm/dd/yyyy)		TIME (hh:mm)		COMMENTS/ SPECIAL INSTRUCTIONS:																									
1	SO-17360 - 081913-MR-065						8/19/13	1524	SG	G	I							1	X																	
2	↓ -066						↓	1526			I							1	X																	
3	SO-17360 - 082113-MR-113						8/21/13	915			I					2		3		X	X															
4	↓ -114						↓	925			I					2		3		X	X															
5	WG-17360 - 082113-ER-122						↓	1500	WG		E	9						13		X	X															X
6	↓ -123						↓	1515			I							4		X	X															
7	SO-17360 - 082213-MR-152						8/22/13	1100	SG		I					2		3	X	X		X	X													
8	↓ -153						↓	1150			I																									
9	↓ -154						↓	1310			I																									
10	↓ -155						↓	1315			I																									
11	↓ -156						↓	1320			I																									
12	↓ -157						↓	1440			I																									
13	↓ -158						↓	1505			I																									
14	↓ -159						↓	1515			I																									
15																																				
TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:										Total Number of Containers: 48							Notes/ Special Requirements:																			
										All Samples in Cooler must be on COC																										
RELINQUISHED BY		COMPANY		DATE		TIME		RECEIVED BY		COMPANY		DATE		TIME																						
1. [Signature]		CRA		8/23/13				1. [Signature]		ALS		8/23/13		1615																						
2.								2.																												
3.								3.																												

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CRA Form: COC-10A (20110804)

Sample Receipt Checklist

Client Name: **CRA - PLYMOUTH**

Date/Time Received: **23-Aug-13 16:15**

Work Order: **1308937**

Received by: **KRW**

Checklist completed by <u>Keith Wurenga</u>	23-Aug-13	Reviewed by: <u>Tom Bramish</u>	24-Aug-13
eSignature	Date	eSignature	Date

Matrices: Soil

Carrier name: Client

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Sample(s) received on ice?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	<u>4.0 C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>8/23/2013 4:56:58 PM</u>		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒
pH adjusted?	Yes ☐	No ☐	N/A ☒
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



12-Sep-2013

Paul Wiseman
Conestoga-Rovers & Associates
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Former GRMP (17360-T05Y13-01Y13)**

Work Order: **1308938**

Dear Paul,

ALS Environmental received 37 samples from 23-Aug-2013 through 27-Aug-2013 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 54.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Beamish".

Electronically approved by: Tom Beamish

Tom Beamish
Senior Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

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RIGHT SOLUTIONS RIGHT PARTNER

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Work Order: 1308938

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1308938-01	SO-17360-082113-MR-115	Soil		08/21/13 12:10	08/23/13 16:15	☒
1308938-02	SO-17360-082113-MR-116	Soil		08/21/13 12:15	08/23/13 16:15	☐
1308938-03	SO-17360-082113-MR-117	Soil		08/21/13 12:20	08/23/13 16:15	☒
1308938-04	SO-17360-082113-MR-118	Soil		08/21/13 12:25	08/23/13 16:15	☒
1308938-05	SO-17360-082113-MR-119	Soil		08/21/13 12:30	08/23/13 16:15	☐
1308938-06	SO-17360-082113-MR-120	Soil		08/21/13 12:35	08/23/13 16:15	☒
1308938-07	SO-17360-082113-MR-121	Soil		08/21/13 12:40	08/23/13 16:15	☒
1308938-08	SO-17360-082113-MR-124	Soil		08/21/13 13:55	08/23/13 16:15	☒
1308938-09	SO-17360-082113-MR-125	Soil		08/21/13 14:00	08/23/13 16:15	☒
1308938-10	SO-17360-082113-MR-126	Soil		08/21/13 14:05	08/23/13 16:15	☐
1308938-11	SO-17360-082113-MR-128	Soil		08/21/13 14:15	08/23/13 16:15	☒
1308938-12	SO-17360-082113-MR-129	Soil		08/21/13 14:20	08/23/13 16:15	☐
1308938-13	SO-17360-082113-MR-130	Soil		08/21/13 15:40	08/23/13 16:15	☒
1308938-14	SO-17360-082113-MR-131	Soil		08/21/13 15:45	08/23/13 16:15	☐
1308938-15	SO-17360-082113-MR-132	Soil		08/21/13 15:50	08/23/13 16:15	☐
1308938-16	SO-17360-082113-MR-133	Soil		08/21/13 15:55	08/23/13 16:15	☐
1308938-17	SO-17360-082113-MR-134	Soil		08/21/13 16:00	08/23/13 16:15	☒
1308938-18	SO-17360-082113-MR-135	Soil		08/21/13 16:05	08/23/13 16:15	☒
1308938-19	SO-17360-082213-MR-136	Soil		08/22/13 08:35	08/23/13 16:15	☒
1308938-20	SO-17360-082213-MR-137	Soil		08/22/13 08:40	08/23/13 16:15	☒
1308938-21	SO-17360-082213-MR-138	Soil		08/22/13 08:45	08/23/13 16:15	☒
1308938-22	SO-17360-082213-MR-139	Soil		08/22/13 08:50	08/23/13 16:15	☒
1308938-23	SO-17360-082213-MR-140	Soil		08/22/13 08:55	08/23/13 16:15	☒
1308938-24	SO-17360-082213-MR-141	Soil		08/22/13 09:00	08/23/13 16:15	☒
1308938-25	SO-17360-082213-MR-143	Soil		08/22/13 09:15	08/23/13 16:15	☒
1308938-26	SO-17360-082213-MR-144	Soil		08/22/13 09:20	08/23/13 16:15	☒
1308938-27	SO-17360-082213-MR-145	Soil		08/22/13 09:25	08/23/13 16:15	☒
1308938-28	SO-17360-082213-MR-146	Soil		08/22/13 09:30	08/23/13 16:15	☒
1308938-29	SO-17360-082213-MR-147	Soil		08/22/13 09:40	08/23/13 16:15	☒
1308938-30	SO-17360-082213-MR-148	Soil		08/22/13 09:45	08/23/13 16:15	☐
1308938-31	SO-17360-082213-MR-149	Soil		08/22/13 09:50	08/23/13 16:15	☐
1308938-32	SO-17360-082213-MR-150	Soil		08/22/13 09:55	08/23/13 16:15	☒
1308938-33	SO-17360-082213-MR-151	Soil		08/22/13 10:00	08/23/13 16:15	☒
1308938-34	SO-17360-082213-MR-142	Soil		08/22/13 09:10	08/23/13 16:15	☒
1308938-35	SO-17360-082213-MR-127	Soil		08/22/13 14:10	08/23/13 16:15	☒
1308938-36	SO-17360-082613-EB-001	Soil		08/26/13 16:40	08/27/13 09:45	☒
1308938-37	SO-17360-082613-EB-002	Soil		08/26/13 16:58	08/27/13 09:45	☒

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
WorkOrder: 1308938

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Work Order: 1308938

Case Narrative**Analytical Comments:**

The positive results for Acetone, Carbon disulfide, Cyclohexane, Methylcyclohexane, and Methylene chloride should be considered as sample artifacts and not inherent in the samples themselves, unless historical data from the site indicates otherwise. The exact source of the artifacts are not able to be determined, but potential causes could be any of the following: sample collection equipment and procedures, sample storage and transport, and/or background laboratory levels due to routine analytical procedures or factors affecting the air handling system within the laboratory. These analytes are commonly found at low levels in environmental samples and positive results should be considered as estimated.

QC Comments:

Batch 51049, Method ICP_6020_S, Sample 1308938-15BMS: The MS recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for Lead.

ALS Group USA, Corp

Date: 12-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082113-MR-116
Collection Date: 08/21/13 12:15 PM

Work Order: 1308938
Lab ID: 1308938-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 9/3/13		Analyst: BG
<u>BatchID: 50979</u>							
1,1,1-Trichloroethane	U		16	41	µg/Kg-dry	1	09/04/13 15:57
1,1,2,2-Tetrachloroethane	U		18	41	µg/Kg-dry	1	09/04/13 15:57
1,1,2-Trichloroethane	U		14	41	µg/Kg-dry	1	09/04/13 15:57
1,1,2-Trichlorotrifluoroethane	U		15	41	µg/Kg-dry	1	09/04/13 15:57
1,1-Dichloroethane	U		15	41	µg/Kg-dry	1	09/04/13 15:57
1,1-Dichloroethene	U		17	41	µg/Kg-dry	1	09/04/13 15:57
1,2,4-Trichlorobenzene	U		21	41	µg/Kg-dry	1	09/04/13 15:57
1,2-Dibromo-3-chloropropane	U		20	41	µg/Kg-dry	1	09/04/13 15:57
1,2-Dibromoethane	U		16	41	µg/Kg-dry	1	09/04/13 15:57
1,2-Dichlorobenzene	U		16	41	µg/Kg-dry	1	09/04/13 15:57
1,2-Dichloroethane	U		19	41	µg/Kg-dry	1	09/04/13 15:57
1,2-Dichloropropane	U		14	41	µg/Kg-dry	1	09/04/13 15:57
1,3-Dichlorobenzene	U		16	41	µg/Kg-dry	1	09/04/13 15:57
1,4-Dichlorobenzene	U		16	41	µg/Kg-dry	1	09/04/13 15:57
2-Butanone	U		100	270	µg/Kg-dry	1	09/04/13 15:57
2-Hexanone	U		10	41	µg/Kg-dry	1	09/04/13 15:57
4-Methyl-2-pentanone	U		14	41	µg/Kg-dry	1	09/04/13 15:57
Acetone	290		86	140	µg/Kg-dry	1	09/04/13 15:57
Benzene	U		16	41	µg/Kg-dry	1	09/04/13 15:57
Bromodichloromethane	U		9.2	41	µg/Kg-dry	1	09/04/13 15:57
Bromoform	U		8.0	41	µg/Kg-dry	1	09/04/13 15:57
Bromomethane	U		16	100	µg/Kg-dry	1	09/04/13 15:57
Carbon disulfide	220		20	41	µg/Kg-dry	1	09/04/13 15:57
Carbon tetrachloride	U		12	41	µg/Kg-dry	1	09/04/13 15:57
Chlorobenzene	U		17	41	µg/Kg-dry	1	09/04/13 15:57
Chloroethane	U		87	140	µg/Kg-dry	1	09/04/13 15:57
Chloroform	U		17	41	µg/Kg-dry	1	09/04/13 15:57
Chloromethane	U		23	140	µg/Kg-dry	1	09/04/13 15:57
cis-1,2-Dichloroethene	U		17	41	µg/Kg-dry	1	09/04/13 15:57
cis-1,3-Dichloropropene	U		14	41	µg/Kg-dry	1	09/04/13 15:57
Cyclohexane	U		18	41	µg/Kg-dry	1	09/04/13 15:57
Dibromochloromethane	U		7.5	41	µg/Kg-dry	1	09/04/13 15:57
Dichlorodifluoromethane	U		18	41	µg/Kg-dry	1	09/04/13 15:57
Ethylbenzene	U		15	41	µg/Kg-dry	1	09/04/13 15:57
Isopropylbenzene	U		18	41	µg/Kg-dry	1	09/04/13 15:57
Methyl acetate	U		55	270	µg/Kg-dry	1	09/04/13 15:57
Methyl tert-butyl ether	U		17	41	µg/Kg-dry	1	09/04/13 15:57

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082113-MR-116
Collection Date: 08/21/13 12:15 PM

Work Order: 1308938
Lab ID: 1308938-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		19	41	µg/Kg-dry	1	09/04/13 15:57
Methylene chloride	520		16	41	µg/Kg-dry	1	09/04/13 15:57
Styrene	U		15	41	µg/Kg-dry	1	09/04/13 15:57
Tetrachloroethene	U		18	41	µg/Kg-dry	1	09/04/13 15:57
Toluene	22	J	15	41	µg/Kg-dry	1	09/04/13 15:57
trans-1,2-Dichloroethene	U		13	41	µg/Kg-dry	1	09/04/13 15:57
trans-1,3-Dichloropropene	U		14	41	µg/Kg-dry	1	09/04/13 15:57
Trichloroethene	78		19	41	µg/Kg-dry	1	09/04/13 15:57
Trichlorofluoromethane	U		11	41	µg/Kg-dry	1	09/04/13 15:57
Vinyl chloride	U		18	41	µg/Kg-dry	1	09/04/13 15:57
Xylenes, Total	U		48	120	µg/Kg-dry	1	09/04/13 15:57
Surr: 1,2-Dichloroethane-d4	99.6			70-130	%REC	1	09/04/13 15:57
Surr: 4-Bromofluorobenzene	98.6			70-130	%REC	1	09/04/13 15:57
Surr: Dibromofluoromethane	99.0			70-130	%REC	1	09/04/13 15:57
Surr: Toluene-d8	97.7			70-130	%REC	1	09/04/13 15:57
MOISTURE			A2540 G				Analyst: EE
BatchID: <u>R125773</u>							
Moisture	21		0.025	0.050	% of sample	1	08/27/13 09:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082113-MR-119
Collection Date: 08/21/13 12:30 PM

Work Order: 1308938
Lab ID: 1308938-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 9/3/13		Analyst: BG
<u>BatchID: 50979</u>							
1,1,1-Trichloroethane	U		15	40	µg/Kg-dry	1	09/04/13 16:20
1,1,2,2-Tetrachloroethane	U		18	40	µg/Kg-dry	1	09/04/13 16:20
1,1,2-Trichloroethane	U		14	40	µg/Kg-dry	1	09/04/13 16:20
1,1,2-Trichlorotrifluoroethane	U		15	40	µg/Kg-dry	1	09/04/13 16:20
1,1-Dichloroethane	U		15	40	µg/Kg-dry	1	09/04/13 16:20
1,1-Dichloroethene	U		17	40	µg/Kg-dry	1	09/04/13 16:20
1,2,4-Trichlorobenzene	U		21	40	µg/Kg-dry	1	09/04/13 16:20
1,2-Dibromo-3-chloropropane	U		19	40	µg/Kg-dry	1	09/04/13 16:20
1,2-Dibromoethane	U		16	40	µg/Kg-dry	1	09/04/13 16:20
1,2-Dichlorobenzene	U		16	40	µg/Kg-dry	1	09/04/13 16:20
1,2-Dichloroethane	U		19	40	µg/Kg-dry	1	09/04/13 16:20
1,2-Dichloropropane	U		13	40	µg/Kg-dry	1	09/04/13 16:20
1,3-Dichlorobenzene	U		16	40	µg/Kg-dry	1	09/04/13 16:20
1,4-Dichlorobenzene	U		15	40	µg/Kg-dry	1	09/04/13 16:20
2-Butanone	U		99	270	µg/Kg-dry	1	09/04/13 16:20
2-Hexanone	U		9.8	40	µg/Kg-dry	1	09/04/13 16:20
4-Methyl-2-pentanone	U		13	40	µg/Kg-dry	1	09/04/13 16:20
Acetone	U		84	130	µg/Kg-dry	1	09/04/13 16:20
Benzene	240		16	40	µg/Kg-dry	1	09/04/13 16:20
Bromodichloromethane	U		8.9	40	µg/Kg-dry	1	09/04/13 16:20
Bromoform	U		7.9	40	µg/Kg-dry	1	09/04/13 16:20
Bromomethane	U		15	100	µg/Kg-dry	1	09/04/13 16:20
Carbon disulfide	73		20	40	µg/Kg-dry	1	09/04/13 16:20
Carbon tetrachloride	U		11	40	µg/Kg-dry	1	09/04/13 16:20
Chlorobenzene	U		16	40	µg/Kg-dry	1	09/04/13 16:20
Chloroethane	U		85	130	µg/Kg-dry	1	09/04/13 16:20
Chloroform	U		16	40	µg/Kg-dry	1	09/04/13 16:20
Chloromethane	U		22	130	µg/Kg-dry	1	09/04/13 16:20
cis-1,2-Dichloroethene	U		16	40	µg/Kg-dry	1	09/04/13 16:20
cis-1,3-Dichloropropene	U		14	40	µg/Kg-dry	1	09/04/13 16:20
Cyclohexane	290		18	40	µg/Kg-dry	1	09/04/13 16:20
Dibromochloromethane	U		7.4	40	µg/Kg-dry	1	09/04/13 16:20
Dichlorodifluoromethane	U		18	40	µg/Kg-dry	1	09/04/13 16:20
Ethylbenzene	340		15	40	µg/Kg-dry	1	09/04/13 16:20
Isopropylbenzene	130		17	40	µg/Kg-dry	1	09/04/13 16:20
Methyl acetate	230	J	54	270	µg/Kg-dry	1	09/04/13 16:20
Methyl tert-butyl ether	U		17	40	µg/Kg-dry	1	09/04/13 16:20

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082113-MR-119
Collection Date: 08/21/13 12:30 PM

Work Order: 1308938
Lab ID: 1308938-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	840		18	40	µg/Kg-dry	1	09/04/13 16:20
Methylene chloride	U		16	40	µg/Kg-dry	1	09/04/13 16:20
Styrene	U		15	40	µg/Kg-dry	1	09/04/13 16:20
Tetrachloroethene	U		18	40	µg/Kg-dry	1	09/04/13 16:20
Toluene	1,700		15	40	µg/Kg-dry	1	09/04/13 16:20
trans-1,2-Dichloroethene	U		12	40	µg/Kg-dry	1	09/04/13 16:20
trans-1,3-Dichloropropene	U		13	40	µg/Kg-dry	1	09/04/13 16:20
Trichloroethene	290		19	40	µg/Kg-dry	1	09/04/13 16:20
Trichlorofluoromethane	U		11	40	µg/Kg-dry	1	09/04/13 16:20
Vinyl chloride	U		18	40	µg/Kg-dry	1	09/04/13 16:20
Xylenes, Total	1,600		47	120	µg/Kg-dry	1	09/04/13 16:20
Surr: 1,2-Dichloroethane-d4	99.6			70-130	%REC	1	09/04/13 16:20
Surr: 4-Bromofluorobenzene	101			70-130	%REC	1	09/04/13 16:20
Surr: Dibromofluoromethane	97.6			70-130	%REC	1	09/04/13 16:20
Surr: Toluene-d8	98.0			70-130	%REC	1	09/04/13 16:20
MOISTURE			A2540 G				Analyst: RLF
BatchID: <u>R125797</u>							
Moisture	6.5		0.025	0.050	% of sample	1	08/27/13 12:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082113-MR-126
Collection Date: 08/21/13 02:05 PM

Work Order: 1308938
Lab ID: 1308938-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 9/3/13		Analyst: BG
<u>BatchID: 50979</u>							
1,1,1-Trichloroethane	U		13	35	µg/Kg-dry	1	09/04/13 16:44
1,1,2,2-Tetrachloroethane	U		15	35	µg/Kg-dry	1	09/04/13 16:44
1,1,2-Trichloroethane	U		12	35	µg/Kg-dry	1	09/04/13 16:44
1,1,2-Trichlorotrifluoroethane	U		13	35	µg/Kg-dry	1	09/04/13 16:44
1,1-Dichloroethane	U		13	35	µg/Kg-dry	1	09/04/13 16:44
1,1-Dichloroethene	U		15	35	µg/Kg-dry	1	09/04/13 16:44
1,2,4-Trichlorobenzene	U		18	35	µg/Kg-dry	1	09/04/13 16:44
1,2-Dibromo-3-chloropropane	U		17	35	µg/Kg-dry	1	09/04/13 16:44
1,2-Dibromoethane	U		14	35	µg/Kg-dry	1	09/04/13 16:44
1,2-Dichlorobenzene	U		14	35	µg/Kg-dry	1	09/04/13 16:44
1,2-Dichloroethane	U		17	35	µg/Kg-dry	1	09/04/13 16:44
1,2-Dichloropropane	U		12	35	µg/Kg-dry	1	09/04/13 16:44
1,3-Dichlorobenzene	U		14	35	µg/Kg-dry	1	09/04/13 16:44
1,4-Dichlorobenzene	U		13	35	µg/Kg-dry	1	09/04/13 16:44
2-Butanone	U		87	230	µg/Kg-dry	1	09/04/13 16:44
2-Hexanone	U		8.6	35	µg/Kg-dry	1	09/04/13 16:44
4-Methyl-2-pentanone	U		12	35	µg/Kg-dry	1	09/04/13 16:44
Acetone	U		74	120	µg/Kg-dry	1	09/04/13 16:44
Benzene	U		14	35	µg/Kg-dry	1	09/04/13 16:44
Bromodichloromethane	U		7.9	35	µg/Kg-dry	1	09/04/13 16:44
Bromoform	U		6.9	35	µg/Kg-dry	1	09/04/13 16:44
Bromomethane	U		13	88	µg/Kg-dry	1	09/04/13 16:44
Carbon disulfide	U		17	35	µg/Kg-dry	1	09/04/13 16:44
Carbon tetrachloride	U		10	35	µg/Kg-dry	1	09/04/13 16:44
Chlorobenzene	U		14	35	µg/Kg-dry	1	09/04/13 16:44
Chloroethane	U		75	120	µg/Kg-dry	1	09/04/13 16:44
Chloroform	U		14	35	µg/Kg-dry	1	09/04/13 16:44
Chloromethane	U		20	120	µg/Kg-dry	1	09/04/13 16:44
cis-1,2-Dichloroethene	U		14	35	µg/Kg-dry	1	09/04/13 16:44
cis-1,3-Dichloropropene	U		12	35	µg/Kg-dry	1	09/04/13 16:44
Cyclohexane	U		16	35	µg/Kg-dry	1	09/04/13 16:44
Dibromochloromethane	U		6.5	35	µg/Kg-dry	1	09/04/13 16:44
Dichlorodifluoromethane	U		16	35	µg/Kg-dry	1	09/04/13 16:44
Ethylbenzene	U		13	35	µg/Kg-dry	1	09/04/13 16:44
Isopropylbenzene	U		15	35	µg/Kg-dry	1	09/04/13 16:44
Methyl acetate	210	J	47	230	µg/Kg-dry	1	09/04/13 16:44
Methyl tert-butyl ether	U		15	35	µg/Kg-dry	1	09/04/13 16:44

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082113-MR-126
Collection Date: 08/21/13 02:05 PM

Work Order: 1308938
Lab ID: 1308938-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		16	35	µg/Kg-dry	1	09/04/13 16:44
Methylene chloride	U		14	35	µg/Kg-dry	1	09/04/13 16:44
Styrene	U		13	35	µg/Kg-dry	1	09/04/13 16:44
Tetrachloroethene	U		16	35	µg/Kg-dry	1	09/04/13 16:44
Toluene	18	J	13	35	µg/Kg-dry	1	09/04/13 16:44
trans-1,2-Dichloroethene	U		11	35	µg/Kg-dry	1	09/04/13 16:44
trans-1,3-Dichloropropene	U		12	35	µg/Kg-dry	1	09/04/13 16:44
Trichloroethene	U		16	35	µg/Kg-dry	1	09/04/13 16:44
Trichlorofluoromethane	U		9.7	35	µg/Kg-dry	1	09/04/13 16:44
Vinyl chloride	U		16	35	µg/Kg-dry	1	09/04/13 16:44
Xylenes, Total	U		42	110	µg/Kg-dry	1	09/04/13 16:44
Surr: 1,2-Dichloroethane-d4	99.3			70-130	%REC	1	09/04/13 16:44
Surr: 4-Bromofluorobenzene	98.8			70-130	%REC	1	09/04/13 16:44
Surr: Dibromofluoromethane	97.9			70-130	%REC	1	09/04/13 16:44
Surr: Toluene-d8	98.0			70-130	%REC	1	09/04/13 16:44
MOISTURE			A2540 G				Analyst: RLF
BatchID: <u>R125797</u>							
Moisture	11		0.025	0.050	% of sample	1	08/27/13 12:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082113-MR-129
Collection Date: 08/21/13 02:20 PM

Work Order: 1308938
Lab ID: 1308938-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 9/3/13		Analyst: BG
<u>BatchID: 50979</u>							
1,1,1-Trichloroethane	U		13	34	µg/Kg-dry	1	09/04/13 17:07
1,1,2,2-Tetrachloroethane	U		15	34	µg/Kg-dry	1	09/04/13 17:07
1,1,2-Trichloroethane	U		12	34	µg/Kg-dry	1	09/04/13 17:07
1,1,2-Trichlorotrifluoroethane	U		13	34	µg/Kg-dry	1	09/04/13 17:07
1,1-Dichloroethane	U		13	34	µg/Kg-dry	1	09/04/13 17:07
1,1-Dichloroethene	U		14	34	µg/Kg-dry	1	09/04/13 17:07
1,2,4-Trichlorobenzene	U		18	34	µg/Kg-dry	1	09/04/13 17:07
1,2-Dibromo-3-chloropropane	U		17	34	µg/Kg-dry	1	09/04/13 17:07
1,2-Dibromoethane	U		14	34	µg/Kg-dry	1	09/04/13 17:07
1,2-Dichlorobenzene	U		14	34	µg/Kg-dry	1	09/04/13 17:07
1,2-Dichloroethane	U		16	34	µg/Kg-dry	1	09/04/13 17:07
1,2-Dichloropropane	U		11	34	µg/Kg-dry	1	09/04/13 17:07
1,3-Dichlorobenzene	U		14	34	µg/Kg-dry	1	09/04/13 17:07
1,4-Dichlorobenzene	U		13	34	µg/Kg-dry	1	09/04/13 17:07
2-Butanone	U		85	230	µg/Kg-dry	1	09/04/13 17:07
2-Hexanone	U		8.5	34	µg/Kg-dry	1	09/04/13 17:07
4-Methyl-2-pentanone	U		12	34	µg/Kg-dry	1	09/04/13 17:07
Acetone	U		73	110	µg/Kg-dry	1	09/04/13 17:07
Benzene	U		14	34	µg/Kg-dry	1	09/04/13 17:07
Bromodichloromethane	U		7.7	34	µg/Kg-dry	1	09/04/13 17:07
Bromoform	U		6.8	34	µg/Kg-dry	1	09/04/13 17:07
Bromomethane	U		13	86	µg/Kg-dry	1	09/04/13 17:07
Carbon disulfide	110		17	34	µg/Kg-dry	1	09/04/13 17:07
Carbon tetrachloride	U		9.8	34	µg/Kg-dry	1	09/04/13 17:07
Chlorobenzene	U		14	34	µg/Kg-dry	1	09/04/13 17:07
Chloroethane	U		73	110	µg/Kg-dry	1	09/04/13 17:07
Chloroform	U		14	34	µg/Kg-dry	1	09/04/13 17:07
Chloromethane	U		19	110	µg/Kg-dry	1	09/04/13 17:07
cis-1,2-Dichloroethene	U		14	34	µg/Kg-dry	1	09/04/13 17:07
cis-1,3-Dichloropropene	U		12	34	µg/Kg-dry	1	09/04/13 17:07
Cyclohexane	U		15	34	µg/Kg-dry	1	09/04/13 17:07
Dibromochloromethane	U		6.4	34	µg/Kg-dry	1	09/04/13 17:07
Dichlorodifluoromethane	U		16	34	µg/Kg-dry	1	09/04/13 17:07
Ethylbenzene	U		13	34	µg/Kg-dry	1	09/04/13 17:07
Isopropylbenzene	U		15	34	µg/Kg-dry	1	09/04/13 17:07
Methyl acetate	U		46	230	µg/Kg-dry	1	09/04/13 17:07
Methyl tert-butyl ether	U		15	34	µg/Kg-dry	1	09/04/13 17:07

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082113-MR-129
Collection Date: 08/21/13 02:20 PM

Work Order: 1308938
Lab ID: 1308938-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		16	34	µg/Kg-dry	1	09/04/13 17:07
Methylene chloride	170		14	34	µg/Kg-dry	1	09/04/13 17:07
Styrene	U		13	34	µg/Kg-dry	1	09/04/13 17:07
Tetrachloroethene	U		15	34	µg/Kg-dry	1	09/04/13 17:07
Toluene	U		13	34	µg/Kg-dry	1	09/04/13 17:07
trans-1,2-Dichloroethene	U		11	34	µg/Kg-dry	1	09/04/13 17:07
trans-1,3-Dichloropropene	U		12	34	µg/Kg-dry	1	09/04/13 17:07
Trichloroethene	U		16	34	µg/Kg-dry	1	09/04/13 17:07
Trichlorofluoromethane	U		9.5	34	µg/Kg-dry	1	09/04/13 17:07
Vinyl chloride	U		16	34	µg/Kg-dry	1	09/04/13 17:07
Xylenes, Total	U		41	100	µg/Kg-dry	1	09/04/13 17:07
Surr: 1,2-Dichloroethane-d4	99.5			70-130	%REC	1	09/04/13 17:07
Surr: 4-Bromofluorobenzene	97.0			70-130	%REC	1	09/04/13 17:07
Surr: Dibromofluoromethane	97.6			70-130	%REC	1	09/04/13 17:07
Surr: Toluene-d8	97.4			70-130	%REC	1	09/04/13 17:07
MOISTURE			A2540 G				Analyst: RLF
BatchID: <u>R125797</u>							
Moisture	4.5		0.025	0.050	% of sample	1	08/27/13 12:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082113-MR-131
Collection Date: 08/21/13 03:45 PM

Work Order: 1308938
Lab ID: 1308938-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 9/6/13	Analyst: LR
<u>BatchID: 51075</u>							
Mercury	0.0033	J	0.00071	0.036	mg/Kg-dry	1	09/06/13 10:42
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 9/5/13	Analyst: LR
<u>BatchID: 51049</u>							
Antimony	0.085	J	0.0013	0.33	mg/Kg-dry	1	09/09/13 01:58
Arsenic	0.79		0.045	0.33	mg/Kg-dry	1	09/09/13 01:58
Barium	7.9		0.0094	0.33	mg/Kg-dry	1	09/09/13 01:58
Beryllium	0.054	J	0.0027	0.13	mg/Kg-dry	1	09/10/13 14:20
Cadmium	0.044	J	0.0013	0.13	mg/Kg-dry	1	09/09/13 01:58
Chromium	2.3		0.055	0.33	mg/Kg-dry	1	09/09/13 01:58
Cobalt	4.9		0.0013	0.33	mg/Kg-dry	1	09/09/13 01:58
Copper	3.6		0.065	0.33	mg/Kg-dry	1	09/09/13 01:58
Iron	1,900		1.1	5.3	mg/Kg-dry	1	09/09/13 01:58
Lead	2.8		0.0013	0.33	mg/Kg-dry	1	09/10/13 14:20
Manganese	86		0.029	0.33	mg/Kg-dry	1	09/09/13 01:58
Molybdenum	0.56		0.015	0.33	mg/Kg-dry	1	09/09/13 01:58
Nickel	4.0		0.033	0.33	mg/Kg-dry	1	09/09/13 01:58
Selenium	0.14	J	0.043	0.33	mg/Kg-dry	1	09/09/13 01:58
Silver	0.015	J	0.0013	0.33	mg/Kg-dry	1	09/09/13 01:58
Thallium	0.039	J	0.0080	0.33	mg/Kg-dry	1	09/10/13 14:20
Vanadium	3.0		0.020	0.33	mg/Kg-dry	1	09/09/13 01:58
Zinc	13		0.028	0.67	mg/Kg-dry	1	09/09/13 01:58
VOLATILE ORGANIC COMPOUNDS							
			SW8260B			Prep: SW5035 / 9/3/13	Analyst: BG
<u>BatchID: 50979</u>							
1,1,1-Trichloroethane	U		13	34	µg/Kg-dry	1	09/04/13 17:31
1,1,2,2-Tetrachloroethane	U		15	34	µg/Kg-dry	1	09/04/13 17:31
1,1,2-Trichloroethane	U		12	34	µg/Kg-dry	1	09/04/13 17:31
1,1,2-Trichlorotrifluoroethane	U		12	34	µg/Kg-dry	1	09/04/13 17:31
1,1-Dichloroethane	U		12	34	µg/Kg-dry	1	09/04/13 17:31
1,1-Dichloroethene	U		14	34	µg/Kg-dry	1	09/04/13 17:31
1,2,4-Trichlorobenzene	U		17	34	µg/Kg-dry	1	09/04/13 17:31
1,2-Dibromo-3-chloropropane	U		16	34	µg/Kg-dry	1	09/04/13 17:31
1,2-Dibromoethane	U		13	34	µg/Kg-dry	1	09/04/13 17:31
1,2-Dichlorobenzene	U		13	34	µg/Kg-dry	1	09/04/13 17:31
1,2-Dichloroethane	U		16	34	µg/Kg-dry	1	09/04/13 17:31
1,2-Dichloropropane	U		11	34	µg/Kg-dry	1	09/04/13 17:31
1,3-Dichlorobenzene	U		13	34	µg/Kg-dry	1	09/04/13 17:31

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082113-MR-131
Collection Date: 08/21/13 03:45 PM

Work Order: 1308938
Lab ID: 1308938-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dichlorobenzene	U		13	34	µg/Kg-dry	1	09/04/13 17:31
2-Butanone	U		83	220	µg/Kg-dry	1	09/04/13 17:31
2-Hexanone	U		8.3	34	µg/Kg-dry	1	09/04/13 17:31
4-Methyl-2-pentanone	U		11	34	µg/Kg-dry	1	09/04/13 17:31
Acetone	U		71	110	µg/Kg-dry	1	09/04/13 17:31
Benzene	U		14	34	µg/Kg-dry	1	09/04/13 17:31
Bromodichloromethane	U		7.6	34	µg/Kg-dry	1	09/04/13 17:31
Bromoform	U		6.6	34	µg/Kg-dry	1	09/04/13 17:31
Bromomethane	U		13	84	µg/Kg-dry	1	09/04/13 17:31
Carbon disulfide	34		17	34	µg/Kg-dry	1	09/04/13 17:31
Carbon tetrachloride	U		9.6	34	µg/Kg-dry	1	09/04/13 17:31
Chlorobenzene	U		14	34	µg/Kg-dry	1	09/04/13 17:31
Chloroethane	U		71	110	µg/Kg-dry	1	09/04/13 17:31
Chloroform	U		14	34	µg/Kg-dry	1	09/04/13 17:31
Chloromethane	U		19	110	µg/Kg-dry	1	09/04/13 17:31
cis-1,2-Dichloroethene	U		14	34	µg/Kg-dry	1	09/04/13 17:31
cis-1,3-Dichloropropene	U		12	34	µg/Kg-dry	1	09/04/13 17:31
Cyclohexane	U		15	34	µg/Kg-dry	1	09/04/13 17:31
Dibromochloromethane	U		6.2	34	µg/Kg-dry	1	09/04/13 17:31
Dichlorodifluoromethane	U		15	34	µg/Kg-dry	1	09/04/13 17:31
Ethylbenzene	U		13	34	µg/Kg-dry	1	09/04/13 17:31
Isopropylbenzene	U		14	34	µg/Kg-dry	1	09/04/13 17:31
Methyl acetate	U		45	220	µg/Kg-dry	1	09/04/13 17:31
Methyl tert-butyl ether	U		14	34	µg/Kg-dry	1	09/04/13 17:31
Methylcyclohexane	U		16	34	µg/Kg-dry	1	09/04/13 17:31
Methylene chloride	U		13	34	µg/Kg-dry	1	09/04/13 17:31
Styrene	U		13	34	µg/Kg-dry	1	09/04/13 17:31
Tetrachloroethene	U		15	34	µg/Kg-dry	1	09/04/13 17:31
Toluene	U		13	34	µg/Kg-dry	1	09/04/13 17:31
trans-1,2-Dichloroethene	U		10	34	µg/Kg-dry	1	09/04/13 17:31
trans-1,3-Dichloropropene	U		11	34	µg/Kg-dry	1	09/04/13 17:31
Trichloroethene	U		16	34	µg/Kg-dry	1	09/04/13 17:31
Trichlorofluoromethane	U		9.3	34	µg/Kg-dry	1	09/04/13 17:31
Vinyl chloride	U		15	34	µg/Kg-dry	1	09/04/13 17:31
Xylenes, Total	U		40	100	µg/Kg-dry	1	09/04/13 17:31
Surr: 1,2-Dichloroethane-d4	98.7			70-130	%REC	1	09/04/13 17:31
Surr: 4-Bromofluorobenzene	99.6			70-130	%REC	1	09/04/13 17:31
Surr: Dibromofluoromethane	97.4			70-130	%REC	1	09/04/13 17:31
Surr: Toluene-d8	98.7			70-130	%REC	1	09/04/13 17:31

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082113-MR-131
Collection Date: 08/21/13 03:45 PM

Work Order: 1308938
Lab ID: 1308938-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE			A2540 G				Analyst: RLF
BatchID: <u>R125797</u>							
Moisture	3.6		0.025	0.050	% of sample	1	08/27/13 12:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082113-MR-132
Collection Date: 08/21/13 03:50 PM

Work Order: 1308938
Lab ID: 1308938-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 9/6/13	Analyst: LR
BatchID: <u>51075</u>							
Mercury	0.0030	J	0.00070	0.035	mg/Kg-dry	1	09/06/13 10:48
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 9/5/13	Analyst: LR
BatchID: <u>51049</u>							
Antimony	0.077	J	0.0015	0.37	mg/Kg-dry	1	09/09/13 02:04
Arsenic	0.82		0.050	0.37	mg/Kg-dry	1	09/09/13 02:04
Barium	7.5		0.010	0.37	mg/Kg-dry	1	09/09/13 02:04
Beryllium	0.056	J	0.0030	0.15	mg/Kg-dry	1	09/10/13 14:05
Cadmium	0.038	J	0.0015	0.15	mg/Kg-dry	1	09/09/13 02:04
Chromium	2.3		0.061	0.37	mg/Kg-dry	1	09/09/13 02:04
Cobalt	0.90		0.0015	0.37	mg/Kg-dry	1	09/09/13 02:04
Copper	4.4		0.073	0.37	mg/Kg-dry	1	09/09/13 02:04
Iron	2,000		1.2	5.9	mg/Kg-dry	1	09/09/13 02:04
Lead	3.4		0.0015	0.37	mg/Kg-dry	1	09/10/13 14:05
Manganese	48		0.033	0.37	mg/Kg-dry	1	09/09/13 02:04
Molybdenum	0.25	J	0.016	0.37	mg/Kg-dry	1	09/09/13 02:04
Nickel	2.9		0.037	0.37	mg/Kg-dry	1	09/09/13 02:04
Selenium	0.15	J	0.047	0.37	mg/Kg-dry	1	09/09/13 02:04
Silver	0.017	J	0.0015	0.37	mg/Kg-dry	1	09/09/13 02:04
Thallium	U		0.0089	0.37	mg/Kg-dry	1	09/10/13 14:05
Vanadium	3.2		0.022	0.37	mg/Kg-dry	1	09/09/13 02:04
Zinc	8.4		0.031	0.74	mg/Kg-dry	1	09/09/13 02:04
VOLATILE ORGANIC COMPOUNDS							
			SW8260B			Prep: SW5035 / 9/3/13	Analyst: BG
BatchID: <u>50979</u>							
1,1,1-Trichloroethane	U		14	38	µg/Kg-dry	1	09/04/13 17:54
1,1,2,2-Tetrachloroethane	U		17	38	µg/Kg-dry	1	09/04/13 17:54
1,1,2-Trichloroethane	U		13	38	µg/Kg-dry	1	09/04/13 17:54
1,1,2-Trichlorotrifluoroethane	U		14	38	µg/Kg-dry	1	09/04/13 17:54
1,1-Dichloroethane	U		14	38	µg/Kg-dry	1	09/04/13 17:54
1,1-Dichloroethene	U		16	38	µg/Kg-dry	1	09/04/13 17:54
1,2,4-Trichlorobenzene	U		20	38	µg/Kg-dry	1	09/04/13 17:54
1,2-Dibromo-3-chloropropane	U		18	38	µg/Kg-dry	1	09/04/13 17:54
1,2-Dibromoethane	U		15	38	µg/Kg-dry	1	09/04/13 17:54
1,2-Dichlorobenzene	U		15	38	µg/Kg-dry	1	09/04/13 17:54
1,2-Dichloroethane	U		18	38	µg/Kg-dry	1	09/04/13 17:54
1,2-Dichloropropane	U		13	38	µg/Kg-dry	1	09/04/13 17:54
1,3-Dichlorobenzene	U		15	38	µg/Kg-dry	1	09/04/13 17:54

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082113-MR-132
Collection Date: 08/21/13 03:50 PM

Work Order: 1308938
Lab ID: 1308938-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dichlorobenzene	U		14	38	µg/Kg-dry	1	09/04/13 17:54
2-Butanone	U		94	250	µg/Kg-dry	1	09/04/13 17:54
2-Hexanone	U		9.3	38	µg/Kg-dry	1	09/04/13 17:54
4-Methyl-2-pentanone	U		13	38	µg/Kg-dry	1	09/04/13 17:54
Acetone	U		80	130	µg/Kg-dry	1	09/04/13 17:54
Benzene	U		15	38	µg/Kg-dry	1	09/04/13 17:54
Bromodichloromethane	U		8.5	38	µg/Kg-dry	1	09/04/13 17:54
Bromoform	U		7.5	38	µg/Kg-dry	1	09/04/13 17:54
Bromomethane	U		15	95	µg/Kg-dry	1	09/04/13 17:54
Carbon disulfide	U		19	38	µg/Kg-dry	1	09/04/13 17:54
Carbon tetrachloride	U		11	38	µg/Kg-dry	1	09/04/13 17:54
Chlorobenzene	U		15	38	µg/Kg-dry	1	09/04/13 17:54
Chloroethane	U		81	130	µg/Kg-dry	1	09/04/13 17:54
Chloroform	U		16	38	µg/Kg-dry	1	09/04/13 17:54
Chloromethane	U		21	130	µg/Kg-dry	1	09/04/13 17:54
cis-1,2-Dichloroethene	U		15	38	µg/Kg-dry	1	09/04/13 17:54
cis-1,3-Dichloropropene	U		13	38	µg/Kg-dry	1	09/04/13 17:54
Cyclohexane	U		17	38	µg/Kg-dry	1	09/04/13 17:54
Dibromochloromethane	U		7.0	38	µg/Kg-dry	1	09/04/13 17:54
Dichlorodifluoromethane	U		17	38	µg/Kg-dry	1	09/04/13 17:54
Ethylbenzene	U		14	38	µg/Kg-dry	1	09/04/13 17:54
Isopropylbenzene	U		16	38	µg/Kg-dry	1	09/04/13 17:54
Methyl acetate	190	J	51	250	µg/Kg-dry	1	09/04/13 17:54
Methyl tert-butyl ether	U		16	38	µg/Kg-dry	1	09/04/13 17:54
Methylcyclohexane	U		18	38	µg/Kg-dry	1	09/04/13 17:54
Methylene chloride	U		15	38	µg/Kg-dry	1	09/04/13 17:54
Styrene	U		14	38	µg/Kg-dry	1	09/04/13 17:54
Tetrachloroethene	U		17	38	µg/Kg-dry	1	09/04/13 17:54
Toluene	U		14	38	µg/Kg-dry	1	09/04/13 17:54
trans-1,2-Dichloroethene	U		12	38	µg/Kg-dry	1	09/04/13 17:54
trans-1,3-Dichloropropene	U		13	38	µg/Kg-dry	1	09/04/13 17:54
Trichloroethene	U		18	38	µg/Kg-dry	1	09/04/13 17:54
Trichlorofluoromethane	U		10	38	µg/Kg-dry	1	09/04/13 17:54
Vinyl chloride	U		17	38	µg/Kg-dry	1	09/04/13 17:54
Xylenes, Total	U		45	110	µg/Kg-dry	1	09/04/13 17:54
Surr: 1,2-Dichloroethane-d4	99.9			70-130	%REC	1	09/04/13 17:54
Surr: 4-Bromofluorobenzene	97.7			70-130	%REC	1	09/04/13 17:54
Surr: Dibromofluoromethane	96.4			70-130	%REC	1	09/04/13 17:54
Surr: Toluene-d8	97.4			70-130	%REC	1	09/04/13 17:54

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082113-MR-132
Collection Date: 08/21/13 03:50 PM

Work Order: 1308938
Lab ID: 1308938-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE			A2540 G				Analyst: RLF
BatchID: <u>R125797</u>							
Moisture	4.3		0.025	0.050	% of sample	1	08/27/13 12:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082113-MR-133
Collection Date: 08/21/13 03:55 PM

Work Order: 1308938
Lab ID: 1308938-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 9/6/13	Analyst: LR
<u>BatchID: 51075</u>							
Mercury	0.099		0.00074	0.037	mg/Kg-dry	1	09/06/13 10:50
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 9/5/13	Analyst: LR
<u>BatchID: 51049</u>							
Antimony	2.4		0.0080	2.0	mg/Kg-dry	5	09/09/13 03:52
Arsenic	5.7		0.27	2.0	mg/Kg-dry	5	09/09/13 03:52
Barium	77		0.056	2.0	mg/Kg-dry	5	09/09/13 03:52
Beryllium	0.19	J	0.016	0.80	mg/Kg-dry	5	09/09/13 03:52
Cadmium	2.9		0.0080	0.80	mg/Kg-dry	5	09/09/13 03:52
Chromium	33		0.33	2.0	mg/Kg-dry	5	09/09/13 03:52
Cobalt	4.5		0.0080	2.0	mg/Kg-dry	5	09/09/13 03:52
Copper	130		0.39	2.0	mg/Kg-dry	5	09/09/13 03:52
Iron	25,000		6.7	32	mg/Kg-dry	5	09/09/13 03:52
Lead	340		0.0080	2.0	mg/Kg-dry	5	09/09/13 03:52
Manganese	320		0.18	2.0	mg/Kg-dry	5	09/09/13 03:52
Molybdenum	22		0.088	2.0	mg/Kg-dry	5	09/09/13 03:52
Nickel	36		0.20	2.0	mg/Kg-dry	5	09/09/13 03:52
Selenium	0.70	J	0.26	2.0	mg/Kg-dry	5	09/09/13 03:52
Silver	0.64	J	0.0080	2.0	mg/Kg-dry	5	09/09/13 03:52
Thallium	0.076	J	0.048	2.0	mg/Kg-dry	5	09/09/13 03:52
Vanadium	7.1		0.12	2.0	mg/Kg-dry	5	09/09/13 03:52
<u>BatchID: 51049</u>							
Zinc	830		1.7	40	mg/Kg-dry	50	09/09/13 03:47
VOLATILE ORGANIC COMPOUNDS							
			SW8260B			Prep: SW5035 / 9/3/13	Analyst: BG
<u>BatchID: 50979</u>							
1,1,1-Trichloroethane	U		20	51	µg/Kg-dry	1	09/04/13 18:18
1,1,2,2-Tetrachloroethane	U		23	51	µg/Kg-dry	1	09/04/13 18:18
1,1,2-Trichloroethane	U		18	51	µg/Kg-dry	1	09/04/13 18:18
1,1,2-Trichlorotrifluoroethane	U		19	51	µg/Kg-dry	1	09/04/13 18:18
1,1-Dichloroethane	U		19	51	µg/Kg-dry	1	09/04/13 18:18
1,1-Dichloroethene	U		22	51	µg/Kg-dry	1	09/04/13 18:18
1,2,4-Trichlorobenzene	U		27	51	µg/Kg-dry	1	09/04/13 18:18
1,2-Dibromo-3-chloropropane	U		25	51	µg/Kg-dry	1	09/04/13 18:18
1,2-Dibromoethane	U		20	51	µg/Kg-dry	1	09/04/13 18:18
1,2-Dichlorobenzene	U		21	51	µg/Kg-dry	1	09/04/13 18:18
1,2-Dichloroethane	U		24	51	µg/Kg-dry	1	09/04/13 18:18
1,2-Dichloropropane	U		17	51	µg/Kg-dry	1	09/04/13 18:18

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082113-MR-133
Collection Date: 08/21/13 03:55 PM

Work Order: 1308938
Lab ID: 1308938-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,3-Dichlorobenzene	U		21	51	µg/Kg-dry	1	09/04/13 18:18
1,4-Dichlorobenzene	U		20	51	µg/Kg-dry	1	09/04/13 18:18
2-Butanone	U		130	340	µg/Kg-dry	1	09/04/13 18:18
2-Hexanone	U		13	51	µg/Kg-dry	1	09/04/13 18:18
4-Methyl-2-pentanone	U		17	51	µg/Kg-dry	1	09/04/13 18:18
Acetone	U		110	170	µg/Kg-dry	1	09/04/13 18:18
Benzene	U		21	51	µg/Kg-dry	1	09/04/13 18:18
Bromodichloromethane	U		12	51	µg/Kg-dry	1	09/04/13 18:18
Bromoform	U		10	51	µg/Kg-dry	1	09/04/13 18:18
Bromomethane	U		20	130	µg/Kg-dry	1	09/04/13 18:18
Carbon disulfide	140		25	51	µg/Kg-dry	1	09/04/13 18:18
Carbon tetrachloride	U		15	51	µg/Kg-dry	1	09/04/13 18:18
Chlorobenzene	U		21	51	µg/Kg-dry	1	09/04/13 18:18
Chloroethane	U		110	170	µg/Kg-dry	1	09/04/13 18:18
Chloroform	U		21	51	µg/Kg-dry	1	09/04/13 18:18
Chloromethane	U		29	170	µg/Kg-dry	1	09/04/13 18:18
cis-1,2-Dichloroethene	U		21	51	µg/Kg-dry	1	09/04/13 18:18
cis-1,3-Dichloropropene	U		18	51	µg/Kg-dry	1	09/04/13 18:18
Cyclohexane	U		23	51	µg/Kg-dry	1	09/04/13 18:18
Dibromochloromethane	U		9.5	51	µg/Kg-dry	1	09/04/13 18:18
Dichlorodifluoromethane	U		23	51	µg/Kg-dry	1	09/04/13 18:18
Ethylbenzene	U		19	51	µg/Kg-dry	1	09/04/13 18:18
Isopropylbenzene	U		22	51	µg/Kg-dry	1	09/04/13 18:18
Methyl acetate	360		69	340	µg/Kg-dry	1	09/04/13 18:18
Methyl tert-butyl ether	U		22	51	µg/Kg-dry	1	09/04/13 18:18
Methylcyclohexane	250		24	51	µg/Kg-dry	1	09/04/13 18:18
Methylene chloride	140		20	51	µg/Kg-dry	1	09/04/13 18:18
Styrene	U		19	51	µg/Kg-dry	1	09/04/13 18:18
Tetrachloroethene	U		23	51	µg/Kg-dry	1	09/04/13 18:18
Toluene	U		19	51	µg/Kg-dry	1	09/04/13 18:18
trans-1,2-Dichloroethene	U		16	51	µg/Kg-dry	1	09/04/13 18:18
trans-1,3-Dichloropropene	U		17	51	µg/Kg-dry	1	09/04/13 18:18
Trichloroethene	7,700		24	51	µg/Kg-dry	1	09/04/13 18:18
Trichlorofluoromethane	U		14	51	µg/Kg-dry	1	09/04/13 18:18
Vinyl chloride	U		23	51	µg/Kg-dry	1	09/04/13 18:18
Xylenes, Total	100	J	61	150	µg/Kg-dry	1	09/04/13 18:18
Surr: 1,2-Dichloroethane-d4	99.2			70-130	%REC	1	09/04/13 18:18
Surr: 4-Bromofluorobenzene	99.1			70-130	%REC	1	09/04/13 18:18
Surr: Dibromofluoromethane	97.2			70-130	%REC	1	09/04/13 18:18
Surr: Toluene-d8	97.8			70-130	%REC	1	09/04/13 18:18

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082113-MR-133
Collection Date: 08/21/13 03:55 PM

Work Order: 1308938
Lab ID: 1308938-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE			A2540 G				Analyst: RLF
BatchID: <u>R125797</u>							
Moisture	9.9		0.025	0.050	% of sample	1	08/27/13 12:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-148
Collection Date: 08/22/13 09:45 AM

Work Order: 1308938
Lab ID: 1308938-30
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 9/6/13	Analyst: LR
<u>BatchID: 51075</u>							
Mercury	0.010	J	0.00066	0.033	mg/Kg-dry	1	09/06/13 10:52
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 9/5/13	Analyst: LR
<u>BatchID: 51049</u>							
Antimony	0.16	J	0.0068	1.7	mg/Kg-dry	5	09/09/13 03:58
Arsenic	1.8		0.23	1.7	mg/Kg-dry	5	09/09/13 03:58
Barium	16		0.048	1.7	mg/Kg-dry	5	09/09/13 03:58
Beryllium	0.11	J	0.014	0.68	mg/Kg-dry	5	09/09/13 03:58
Cadmium	0.26	J	0.0068	0.68	mg/Kg-dry	5	09/09/13 03:58
Chromium	7.4		0.28	1.7	mg/Kg-dry	5	09/09/13 03:58
Cobalt	2.2		0.0068	1.7	mg/Kg-dry	5	09/09/13 03:58
Copper	11		0.33	1.7	mg/Kg-dry	5	09/09/13 03:58
Iron	4,600		5.7	27	mg/Kg-dry	5	09/09/13 03:58
Lead	11		0.0068	1.7	mg/Kg-dry	5	09/09/13 03:58
Manganese	140		0.15	1.7	mg/Kg-dry	5	09/09/13 03:58
Molybdenum	0.70	J	0.075	1.7	mg/Kg-dry	5	09/09/13 03:58
Nickel	7.6		0.17	1.7	mg/Kg-dry	5	09/09/13 03:58
Selenium	U		0.22	1.7	mg/Kg-dry	5	09/09/13 03:58
Silver	0.057	J	0.0068	1.7	mg/Kg-dry	5	09/09/13 03:58
Thallium	U		0.041	1.7	mg/Kg-dry	5	09/09/13 03:58
Vanadium	6.6		0.10	1.7	mg/Kg-dry	5	09/09/13 03:58
Zinc	24		0.14	3.4	mg/Kg-dry	5	09/09/13 03:58
VOLATILE ORGANIC COMPOUNDS							
			SW8260B			Prep: SW5035 / 9/3/13	Analyst: BG
<u>BatchID: 50979</u>							
1,1,1-Trichloroethane	U		13	35	µg/Kg-dry	1	09/04/13 18:41
1,1,2,2-Tetrachloroethane	U		15	35	µg/Kg-dry	1	09/04/13 18:41
1,1,2-Trichloroethane	U		12	35	µg/Kg-dry	1	09/04/13 18:41
1,1,2-Trichlorotrifluoroethane	U		13	35	µg/Kg-dry	1	09/04/13 18:41
1,1-Dichloroethane	U		13	35	µg/Kg-dry	1	09/04/13 18:41
1,1-Dichloroethene	U		15	35	µg/Kg-dry	1	09/04/13 18:41
1,2,4-Trichlorobenzene	U		18	35	µg/Kg-dry	1	09/04/13 18:41
1,2-Dibromo-3-chloropropane	U		17	35	µg/Kg-dry	1	09/04/13 18:41
1,2-Dibromoethane	U		14	35	µg/Kg-dry	1	09/04/13 18:41
1,2-Dichlorobenzene	U		14	35	µg/Kg-dry	1	09/04/13 18:41
1,2-Dichloroethane	U		17	35	µg/Kg-dry	1	09/04/13 18:41
1,2-Dichloropropane	U		12	35	µg/Kg-dry	1	09/04/13 18:41
1,3-Dichlorobenzene	U		14	35	µg/Kg-dry	1	09/04/13 18:41

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-148
Collection Date: 08/22/13 09:45 AM

Work Order: 1308938
Lab ID: 1308938-30
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dichlorobenzene	U		13	35	µg/Kg-dry	1	09/04/13 18:41
2-Butanone	U		86	230	µg/Kg-dry	1	09/04/13 18:41
2-Hexanone	U		8.6	35	µg/Kg-dry	1	09/04/13 18:41
4-Methyl-2-pentanone	U		12	35	µg/Kg-dry	1	09/04/13 18:41
Acetone	U		74	120	µg/Kg-dry	1	09/04/13 18:41
Benzene	U		14	35	µg/Kg-dry	1	09/04/13 18:41
Bromodichloromethane	U		7.8	35	µg/Kg-dry	1	09/04/13 18:41
Bromoform	U		6.9	35	µg/Kg-dry	1	09/04/13 18:41
Bromomethane	U		13	87	µg/Kg-dry	1	09/04/13 18:41
Carbon disulfide	43		17	35	µg/Kg-dry	1	09/04/13 18:41
Carbon tetrachloride	U		9.9	35	µg/Kg-dry	1	09/04/13 18:41
Chlorobenzene	U		14	35	µg/Kg-dry	1	09/04/13 18:41
Chloroethane	U		74	120	µg/Kg-dry	1	09/04/13 18:41
Chloroform	U		14	35	µg/Kg-dry	1	09/04/13 18:41
Chloromethane	U		19	120	µg/Kg-dry	1	09/04/13 18:41
cis-1,2-Dichloroethene	U		14	35	µg/Kg-dry	1	09/04/13 18:41
cis-1,3-Dichloropropene	U		12	35	µg/Kg-dry	1	09/04/13 18:41
Cyclohexane	U		16	35	µg/Kg-dry	1	09/04/13 18:41
Dibromochloromethane	U		6.5	35	µg/Kg-dry	1	09/04/13 18:41
Dichlorodifluoromethane	U		16	35	µg/Kg-dry	1	09/04/13 18:41
Ethylbenzene	U		13	35	µg/Kg-dry	1	09/04/13 18:41
Isopropylbenzene	U		15	35	µg/Kg-dry	1	09/04/13 18:41
Methyl acetate	U		47	230	µg/Kg-dry	1	09/04/13 18:41
Methyl tert-butyl ether	U		15	35	µg/Kg-dry	1	09/04/13 18:41
Methylcyclohexane	U		16	35	µg/Kg-dry	1	09/04/13 18:41
Methylene chloride	U		14	35	µg/Kg-dry	1	09/04/13 18:41
Styrene	U		13	35	µg/Kg-dry	1	09/04/13 18:41
Tetrachloroethene	U		16	35	µg/Kg-dry	1	09/04/13 18:41
Toluene	U		13	35	µg/Kg-dry	1	09/04/13 18:41
trans-1,2-Dichloroethene	U		11	35	µg/Kg-dry	1	09/04/13 18:41
trans-1,3-Dichloropropene	U		12	35	µg/Kg-dry	1	09/04/13 18:41
Trichloroethene	160		16	35	µg/Kg-dry	1	09/04/13 18:41
Trichlorofluoromethane	U		9.6	35	µg/Kg-dry	1	09/04/13 18:41
Vinyl chloride	U		16	35	µg/Kg-dry	1	09/04/13 18:41
Xylenes, Total	U		41	100	µg/Kg-dry	1	09/04/13 18:41
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	09/04/13 18:41
Surr: 4-Bromofluorobenzene	99.0			70-130	%REC	1	09/04/13 18:41
Surr: Dibromofluoromethane	97.9			70-130	%REC	1	09/04/13 18:41
Surr: Toluene-d8	97.7			70-130	%REC	1	09/04/13 18:41

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-148
Collection Date: 08/22/13 09:45 AM

Work Order: 1308938
Lab ID: 1308938-30
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE			A2540 G				Analyst: RLF
BatchID: <u>R125800</u>							
Moisture	4.8		0.025	0.050	% of sample	1	08/27/13 14:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-149
Collection Date: 08/22/13 09:50 AM

Work Order: 1308938
Lab ID: 1308938-31
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 9/10/13	Analyst: LR
<u>BatchID: 51155</u>							
Mercury	0.0092	J	0.00075	0.038	mg/Kg-dry	1	09/10/13 12:51
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 9/5/13	Analyst: LR
<u>BatchID: 51049</u>							
Antimony	1.0	J	0.072	18	mg/Kg-dry	50	09/09/13 04:10
Arsenic	2.8	J	2.5	18	mg/Kg-dry	50	09/09/13 04:10
Barium	43		0.51	18	mg/Kg-dry	50	09/09/13 04:10
Beryllium	U		0.14	7.2	mg/Kg-dry	50	09/09/13 04:10
Cadmium	89		0.072	7.2	mg/Kg-dry	50	09/09/13 04:10
Chromium	12	J	3.0	18	mg/Kg-dry	50	09/09/13 04:10
Cobalt	3.0	J	0.072	18	mg/Kg-dry	50	09/09/13 04:10
Iron	6,800		60	290	mg/Kg-dry	50	09/09/13 04:10
Lead	33		0.072	18	mg/Kg-dry	50	09/09/13 04:10
Manganese	180		1.6	18	mg/Kg-dry	50	09/09/13 04:10
Molybdenum	3.0	J	0.80	18	mg/Kg-dry	50	09/09/13 04:10
Nickel	17	J	1.8	18	mg/Kg-dry	50	09/09/13 04:10
Selenium	U		2.3	18	mg/Kg-dry	50	09/09/13 04:10
Silver	0.41	J	0.072	18	mg/Kg-dry	50	09/09/13 04:10
Thallium	U		0.43	18	mg/Kg-dry	50	09/09/13 04:10
Vanadium	10	J	1.1	18	mg/Kg-dry	50	09/09/13 04:10
Zinc	1,900		1.5	36	mg/Kg-dry	50	09/09/13 04:10
<u>BatchID: 51049</u>							
Copper	8,500		35	180	mg/Kg-dry	500	09/09/13 04:04
VOLATILE ORGANIC COMPOUNDS							
			SW8260B			Prep: SW5035 / 9/3/13	Analyst: BG
<u>BatchID: 50979</u>							
1,1,1-Trichloroethane	U		13	34	µg/Kg-dry	1	09/04/13 19:05
1,1,2,2-Tetrachloroethane	U		15	34	µg/Kg-dry	1	09/04/13 19:05
1,1,2-Trichloroethane	U		12	34	µg/Kg-dry	1	09/04/13 19:05
1,1,2-Trichlorotrifluoroethane	U		13	34	µg/Kg-dry	1	09/04/13 19:05
1,1-Dichloroethane	U		12	34	µg/Kg-dry	1	09/04/13 19:05
1,1-Dichloroethene	U		14	34	µg/Kg-dry	1	09/04/13 19:05
1,2,4-Trichlorobenzene	U		18	34	µg/Kg-dry	1	09/04/13 19:05
1,2-Dibromo-3-chloropropane	U		17	34	µg/Kg-dry	1	09/04/13 19:05
1,2-Dibromoethane	U		13	34	µg/Kg-dry	1	09/04/13 19:05
1,2-Dichlorobenzene	U		14	34	µg/Kg-dry	1	09/04/13 19:05
1,2-Dichloroethane	U		16	34	µg/Kg-dry	1	09/04/13 19:05
1,2-Dichloropropane	U		11	34	µg/Kg-dry	1	09/04/13 19:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-149
Collection Date: 08/22/13 09:50 AM

Work Order: 1308938
Lab ID: 1308938-31
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,3-Dichlorobenzene	U		14	34	µg/Kg-dry	1	09/04/13 19:05
1,4-Dichlorobenzene	U		13	34	µg/Kg-dry	1	09/04/13 19:05
2-Butanone	U		84	230	µg/Kg-dry	1	09/04/13 19:05
2-Hexanone	U		8.4	34	µg/Kg-dry	1	09/04/13 19:05
4-Methyl-2-pentanone	U		12	34	µg/Kg-dry	1	09/04/13 19:05
Acetone	U		72	110	µg/Kg-dry	1	09/04/13 19:05
Benzene	U		14	34	µg/Kg-dry	1	09/04/13 19:05
Bromodichloromethane	U		7.6	34	µg/Kg-dry	1	09/04/13 19:05
Bromoform	U		6.7	34	µg/Kg-dry	1	09/04/13 19:05
Bromomethane	U		13	85	µg/Kg-dry	1	09/04/13 19:05
Carbon disulfide	61		17	34	µg/Kg-dry	1	09/04/13 19:05
Carbon tetrachloride	U		9.7	34	µg/Kg-dry	1	09/04/13 19:05
Chlorobenzene	U		14	34	µg/Kg-dry	1	09/04/13 19:05
Chloroethane	U		72	110	µg/Kg-dry	1	09/04/13 19:05
Chloroform	U		14	34	µg/Kg-dry	1	09/04/13 19:05
Chloromethane	U		19	110	µg/Kg-dry	1	09/04/13 19:05
cis-1,2-Dichloroethene	U		14	34	µg/Kg-dry	1	09/04/13 19:05
cis-1,3-Dichloropropene	U		12	34	µg/Kg-dry	1	09/04/13 19:05
Cyclohexane	U		15	34	µg/Kg-dry	1	09/04/13 19:05
Dibromochloromethane	U		6.3	34	µg/Kg-dry	1	09/04/13 19:05
Dichlorodifluoromethane	U		15	34	µg/Kg-dry	1	09/04/13 19:05
Ethylbenzene	U		13	34	µg/Kg-dry	1	09/04/13 19:05
Isopropylbenzene	U		15	34	µg/Kg-dry	1	09/04/13 19:05
Methyl acetate	130	J	46	230	µg/Kg-dry	1	09/04/13 19:05
Methyl tert-butyl ether	U		14	34	µg/Kg-dry	1	09/04/13 19:05
Methylcyclohexane	U		16	34	µg/Kg-dry	1	09/04/13 19:05
Methylene chloride	31	J	13	34	µg/Kg-dry	1	09/04/13 19:05
Styrene	U		13	34	µg/Kg-dry	1	09/04/13 19:05
Tetrachloroethene	U		15	34	µg/Kg-dry	1	09/04/13 19:05
Toluene	U		13	34	µg/Kg-dry	1	09/04/13 19:05
trans-1,2-Dichloroethene	U		10	34	µg/Kg-dry	1	09/04/13 19:05
trans-1,3-Dichloropropene	U		11	34	µg/Kg-dry	1	09/04/13 19:05
Trichloroethene	210		16	34	µg/Kg-dry	1	09/04/13 19:05
Trichlorofluoromethane	U		9.4	34	µg/Kg-dry	1	09/04/13 19:05
Vinyl chloride	U		15	34	µg/Kg-dry	1	09/04/13 19:05
Xylenes, Total	U		40	100	µg/Kg-dry	1	09/04/13 19:05
Surr: 1,2-Dichloroethane-d4	99.5			70-130	%REC	1	09/04/13 19:05
Surr: 4-Bromofluorobenzene	99.0			70-130	%REC	1	09/04/13 19:05
Surr: Dibromofluoromethane	96.2			70-130	%REC	1	09/04/13 19:05
Surr: Toluene-d8	99.6			70-130	%REC	1	09/04/13 19:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Sep-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T05Y13-01Y13)
Sample ID: SO-17360-082213-MR-149
Collection Date: 08/22/13 09:50 AM

Work Order: 1308938
Lab ID: 1308938-31
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE			A2540 G				Analyst: RLF
BatchID: <u>R125800</u>							
Moisture	5.3		0.025	0.050	% of sample	1	08/27/13 14:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Conestoga-Rovers & Associates
Work Order: 1308938
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **51075** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-51075-51075				Units: mg/Kg		Analysis Date: 09/06/13 10:03 AM		
Client ID:		Run ID: HG1_130906A				SeqNo: 2436366		Prep Date: 09/06/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.020								

LCS		Sample ID: LCS-51075-51075				Units: mg/Kg		Analysis Date: 09/06/13 10:05 AM		
Client ID:		Run ID: HG1_130906A				SeqNo: 2436367		Prep Date: 09/06/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1807	0.020	0.1665	0	109	80-120	0			

MS		Sample ID: 1308938-14BMS				Units: mg/Kg		Analysis Date: 09/06/13 10:44 AM		
Client ID: SO-17360-082113-MR-131		Run ID: HG1_130906A				SeqNo: 2436416		Prep Date: 09/06/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1312	0.014	0.1146	0.003204	112	75-125	0			

MSD		Sample ID: 1308938-14BMSD				Units: mg/Kg		Analysis Date: 09/06/13 10:46 AM		
Client ID: SO-17360-082113-MR-131		Run ID: HG1_130906A				SeqNo: 2436417		Prep Date: 09/06/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1293	0.014	0.1148	0.003204	110	75-125	0.1312	1.49	35	

The following samples were analyzed in this batch:

1308938-14B	1308938-15B	1308938-16B
1308938-30B		

Client: Conestoga-Rovers & Associates
Work Order: 1308938
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **51155** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-51155-51155				Units: mg/Kg		Analysis Date: 09/10/13 12:47 PM		
Client ID:		Run ID: HG1_130910A				SeqNo: 2440988		Prep Date: 09/10/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury U 0.020

LCS		Sample ID: LCS-51155-51155				Units: mg/Kg		Analysis Date: 09/10/13 12:49 PM		
Client ID:		Run ID: HG1_130910A				SeqNo: 2440989		Prep Date: 09/10/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1705 0.020 0.1665 0 102 80-120 0

MS		Sample ID: 1308938-31BMS				Units: mg/Kg		Analysis Date: 09/10/13 12:53 PM		
Client ID: SO-17360-082213-MR-149		Run ID: HG1_130910A				SeqNo: 2440991		Prep Date: 09/10/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1349 0.014 0.1151 0.008701 110 75-125 0

MSD		Sample ID: 1308938-31BMSD				Units: mg/Kg		Analysis Date: 09/10/13 12:55 PM		
Client ID: SO-17360-082213-MR-149		Run ID: HG1_130910A				SeqNo: 2440992		Prep Date: 09/10/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1325 0.014 0.1175 0.008701 105 75-125 0.1349 1.82 35

The following samples were analyzed in this batch:

1308938-31B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308938
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **51049** Instrument ID **ICPMS2** Method: **SW6020A**

MBLK		Sample ID: MBLK-51049-51049				Units: mg/Kg		Analysis Date: 09/09/13 12:42 AM		
Client ID:		Run ID: ICPMS2_130908A				SeqNo: 2438970		Prep Date: 09/05/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.25								
Arsenic	U	0.25								
Barium	U	0.25								
Cadmium	U	0.10								
Chromium	U	0.25								
Cobalt	U	0.25								
Copper	U	0.25								
Iron	0.8935	4.0								J
Lead	U	0.25								
Manganese	0.1538	0.25								J
Molybdenum	0.01758	0.25								J
Nickel	0.03002	0.25								J
Selenium	0.04958	0.25								J
Silver	U	0.25								
Vanadium	0.02406	0.25								J
Zinc	0.03912	0.50								J

MBLK		Sample ID: MBLK-51049-51049				Units: mg/Kg		Analysis Date: 09/09/13 05:43 PM		
Client ID:		Run ID: ICPMS1_130909A				SeqNo: 2440034		Prep Date: 09/05/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	U	0.10								
Thallium	U	0.25								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308938
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **51049** Instrument ID **ICPMS2** Method: **SW6020A**

LCS				Sample ID: LCS-51049-51049				Units: mg/Kg		Analysis Date: 09/09/13 12:48 AM	
Client ID:			Run ID: ICPMS2_130908A			SeqNo: 2438971		Prep Date: 09/05/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Antimony	4.892	0.25	5	0	97.8	80-120	0				
Arsenic	4.79	0.25	5	0	95.8	80-120	0				
Barium	4.9	0.25	5	0	98	80-120	0				
Cadmium	4.875	0.10	5	0	97.5	80-120	0				
Chromium	4.792	0.25	5	0	95.8	80-120	0				
Cobalt	4.934	0.25	5	0	98.7	80-120	0				
Copper	4.916	0.25	5	0	98.3	80-120	0				
Iron	489.8	4.0	500	0	98	80-120	0				
Lead	4.875	0.25	5	0	97.5	80-120	0				
Manganese	5.065	0.25	5	0	101	80-120	0				
Molybdenum	4.909	0.25	5	0	98.2	80-120	0				
Nickel	4.886	0.25	5	0	97.7	80-120	0				
Selenium	4.852	0.25	5	0	97	80-120	0				
Silver	5.01	0.25	5	0	100	80-120	0				
Vanadium	4.839	0.25	5	0	96.8	80-120	0				
Zinc	4.78	0.50	5	0	95.6	80-120	0				

LCS				Sample ID: LCS-51049-51049				Units: mg/Kg			Analysis Date: 09/09/13 05:50 PM			
Client ID:				Run ID: ICPMS1_130909A				SeqNo: 2440035			Prep Date: 09/05/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Beryllium	4.854	0.10	5	0	97.1	80-120	0							
Thallium	4.718	0.25	5	0	94.4	80-120	0							

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308938
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **51049** Instrument ID **ICPMS2** Method: **SW6020A**

MS				Sample ID: 1308938-15BMS			Units: mg/Kg		Analysis Date: 09/09/13 02:09 AM		
Client ID: SO-17360-082113-MR-132			Run ID: ICPMS2_130908A			SeqNo: 2438996		Prep Date: 09/05/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Antimony	6.741	0.36	7.184	0.07333	92.8	75-125		0			
Arsenic	7.5	0.36	7.184	0.783	93.5	75-125		0			
Barium	15.29	0.36	7.184	7.17	113	75-125		0			
Cadmium	7.094	0.14	7.184	0.03677	98.2	75-125		0			
Chromium	9.425	0.36	7.184	2.223	100	75-125		0			
Cobalt	7.802	0.36	7.184	0.8631	96.6	75-125		0			
Copper	13.18	0.36	7.184	4.224	125	75-125		0			
Iron	2787	5.7	718.4	1923	120	75-125		0			
Manganese	57.56	0.36	7.184	45.57	167	75-125		0		SO	
Molybdenum	7.32	0.36	7.184	0.2366	98.6	75-125		0			
Nickel	9.684	0.36	7.184	2.765	96.3	75-125		0			
Selenium	6.781	0.36	7.184	0.1474	92.3	75-125		0			
Silver	6.819	0.36	7.184	0.01636	94.7	75-125		0			
Vanadium	10.7	0.36	7.184	3.065	106	75-125		0			
Zinc	16.87	0.72	7.184	8.007	123	75-125		0			

MS					Sample ID: 1308938-15BMS			Units: mg/Kg		Analysis Date: 09/10/13 02:10 PM		
Client ID: SO-17360-082113-MR-132			Run ID: ICPMS2_130910A			SeqNo: 2441211		Prep Date: 09/05/13		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Beryllium	6.412	0.14	7.184	0.05322	88.5	75-125	0					
Lead	12.82	0.36	7.184	3.248	133	75-125	0			S		
Thallium	6.966	0.36	7.184	0.003082	96.9	75-125	0					

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308938
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **51049** Instrument ID **ICPMS2** Method: **SW6020A**

MSD				Sample ID: 1308938-15BMSD			Units: mg/Kg		Analysis Date: 09/09/13 03:42 AM	
Client ID: SO-17360-082113-MR-132				Run ID: ICPMS2_130908A			SeqNo: 2439019		Prep Date: 09/05/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	6.766	0.35	7.052	0.07333	94.9	75-125	6.741	0.363	25	
Arsenic	7.588	0.35	7.052	0.783	96.5	75-125	7.5	1.17	25	
Barium	13.82	0.35	7.052	7.17	94.2	75-125	15.29	10.2	25	
Beryllium	5.819	0.14	7.052	0.04377	81.9	75-125	5.268	9.95	25	
Cadmium	7.207	0.14	7.052	0.03677	102	75-125	7.094	1.58	25	
Chromium	9.951	0.35	7.052	2.223	110	75-125	9.425	5.42	25	
Cobalt	7.793	0.35	7.052	0.8631	98.3	75-125	7.802	0.116	25	
Copper	10.3	0.35	7.052	4.224	86.1	75-125	13.18	24.5	25	
Iron	2626	5.6	705.2	1923	99.7	75-125	2787	5.98	25	
Lead	10.57	0.35	7.052	3.313	103	75-125	12.94	20.1	25	
Manganese	56.92	0.35	7.052	45.57	161	75-125	57.56	1.13	25	SO
Molybdenum	7.574	0.35	7.052	0.2366	104	75-125	7.32	3.41	25	
Nickel	10.38	0.35	7.052	2.765	108	75-125	9.684	6.95	25	
Selenium	6.724	0.35	7.052	0.1474	93.2	75-125	6.781	0.849	25	
Silver	7.059	0.35	7.052	0.01636	99.9	75-125	6.819	3.46	25	
Vanadium	10.56	0.35	7.052	3.065	106	75-125	10.7	1.38	25	
Zinc	14.44	0.71	7.052	8.007	91.2	75-125	16.87	15.5	25	

MSD				Sample ID: 1308938-15BMSD			Units: mg/Kg		Analysis Date: 09/10/13 02:15 PM	
Client ID: SO-17360-082113-MR-132				Run ID: ICPMS2_130910A			SeqNo: 2441212		Prep Date: 09/05/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	6.777	0.35	7.052	0.003082	96.1	75-125	6.966	2.75	25	

The following samples were analyzed in this batch:

1308938-14B	1308938-15B	1308938-16B
1308938-30B	1308938-31B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308938
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50979** Instrument ID **VMS5** Method: **SW8260B**

MBLK		Sample ID: MBLK-50979-50979				Units: µg/Kg		Analysis Date: 09/04/13 02:47 PM		
Client ID:		Run ID: VMS5_130904A				SeqNo: 2434450		Prep Date: 09/03/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
Isopropylbenzene	U	30								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
Styrene	U	30								
Tetrachloroethene	U	30								
Toluene	U	30								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308938
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50979	Instrument ID VMS5	Method: SW8260B						
trans-1,2-Dichloroethene	U	30						
trans-1,3-Dichloropropene	U	30						
Trichloroethene	U	30						
Trichlorofluoromethane	U	30						
Vinyl chloride	U	30						
Xylenes, Total	U	90						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1012</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>964.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>96.4</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>991</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.1</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>973.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97.4</i>	<i>70-130</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308938
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50979** Instrument ID **VMS5** Method: **SW8260B**

LCS Sample ID: LCS-50979-50979				Units: µg/Kg			Analysis Date: 09/04/13 01:13 PM			
Client ID:		Run ID: VMS5_130904A		SeqNo: 2434451		Prep Date: 09/03/13		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	955	30	1000	0	95.5	70-135	0			
1,1,2,2-Tetrachloroethane	935.5	30	1000	0	93.6	55-130	0			
1,1,2-Trichloroethane	921	30	1000	0	92.1	60-125	0			
1,1-Dichloroethane	881	30	1000	0	88.1	75-125	0			
1,1-Dichloroethene	1001	30	1000	0	100	65-135	0			
1,2,4-Trichlorobenzene	943.5	30	1000	0	94.4	65-130	0			
1,2-Dibromo-3-chloropropane	984.5	30	1000	0	98.4	40-135	0			
1,2-Dibromoethane	979	30	1000	0	97.9	70-125	0			
1,2-Dichlorobenzene	910	30	1000	0	91	75-120	0			
1,2-Dichloroethane	930.5	30	1000	0	93	70-135	0			
1,2-Dichloropropane	854	30	1000	0	85.4	70-120	0			
1,3-Dichlorobenzene	878.5	30	1000	0	87.8	70-125	0			
1,4-Dichlorobenzene	927.5	30	1000	0	92.8	70-125	0			
2-Butanone	988	200	1000	0	98.8	30-160	0			
2-Hexanone	992.5	30	1000	0	99.2	45-145	0			
4-Methyl-2-pentanone	1237	30	1000	0	124	45-145	0			
Acetone	913	100	1000	0	91.3	20-160	0			
Benzene	885.5	30	1000	0	88.6	75-125	0			
Bromodichloromethane	923	30	1000	0	92.3	70-130	0			
Bromoform	990.5	30	1000	0	99	55-135	0			
Bromomethane	1260	75	1000	0	126	30-160	0			
Carbon disulfide	1039	30	1000	0	104	45-160	0			
Carbon tetrachloride	993	30	1000	0	99.3	65-135	0			
Chlorobenzene	879	30	1000	0	87.9	75-125	0			
Chloroethane	795.5	100	1000	0	79.6	40-155	0			
Chloroform	893	30	1000	0	89.3	70-125	0			
Chloromethane	817	100	1000	0	81.7	50-130	0			
cis-1,2-Dichloroethene	887.5	30	1000	0	88.8	65-125	0			
cis-1,3-Dichloropropene	937.5	30	1000	0	93.8	70-125	0			
Dibromochloromethane	900	30	1000	0	90	65-135	0			
Dichlorodifluoromethane	900.5	30	1000	0	90	35-135	0			
Ethylbenzene	867.5	30	1000	0	86.8	75-125	0			
Isopropylbenzene	857.5	30	1000	0	85.8	75-130	0			
Methyl tert-butyl ether	868.5	30	1000	0	86.8	75-125	0			
Methylene chloride	932.5	30	1000	0	93.2	55-145	0			
Styrene	914.5	30	1000	0	91.4	75-125	0			
Tetrachloroethene	926.5	30	1000	0	92.6	64-140	0			
Toluene	859.5	30	1000	0	86	70-125	0			
trans-1,2-Dichloroethene	939	30	1000	0	93.9	65-135	0			
trans-1,3-Dichloropropene	967	30	1000	0	96.7	65-125	0			
Trichloroethene	918	30	1000	0	91.8	75-125	0			
Trichlorofluoromethane	907.5	30	1000	0	90.8	25-185	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308938
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50979	Instrument ID VMS5	Method: SW8260B					
Vinyl chloride	834	30	1000	0	83.4	60-125	0
Xylenes, Total	2654	90	3000	0	88.4	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>991</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.1</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1011</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>994</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.4</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>972</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97.2</i>	<i>70-130</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308938
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50979** Instrument ID **VMS5** Method: **SW8260B**

MS				Sample ID: 13081240-09A MS			Units: µg/Kg		Analysis Date: 09/03/13 08:58 PM	
Client ID:				Run ID: VMS5_130903A			SeqNo: 2433920		Prep Date: 09/03/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	992	30	1000	0	99.2	70-135	0			
1,1,2,2-Tetrachloroethane	908	30	1000	0	90.8	55-130	0			
1,1,2-Trichloroethane	914.5	30	1000	0	91.4	60-125	0			
1,1-Dichloroethane	925.5	30	1000	0	92.6	75-125	0			
1,1-Dichloroethene	1062	30	1000	0	106	65-135	0			
1,2,4-Trichlorobenzene	967.5	30	1000	0	96.8	65-130	0			
1,2-Dibromo-3-chloropropane	944.5	30	1000	0	94.4	40-135	0			
1,2-Dibromoethane	964.5	30	1000	0	96.4	70-125	0			
1,2-Dichlorobenzene	922	30	1000	0	92.2	75-120	0			
1,2-Dichloroethane	926	30	1000	0	92.6	70-135	0			
1,2-Dichloropropane	908	30	1000	0	90.8	70-120	0			
1,3-Dichlorobenzene	890.5	30	1000	0	89	70-125	0			
1,4-Dichlorobenzene	938	30	1000	0	93.8	70-125	0			
2-Butanone	1128	200	1000	128.5	100	30-160	0			
2-Hexanone	1086	30	1000	0	109	45-145	0			
4-Methyl-2-pentanone	1310	30	1000	0	131	45-145	0			
Acetone	1095	100	1000	123.5	97.2	20-160	0			B
Benzene	928.5	30	1000	0	92.8	75-125	0			
Bromodichloromethane	901.5	30	1000	0	90.2	70-130	0			
Bromoform	938.5	30	1000	0	93.8	55-135	0			
Bromomethane	428.5	75	1000	0	42.8	30-160	0			
Carbon disulfide	1070	30	1000	0	107	45-160	0			
Carbon tetrachloride	997	30	1000	0	99.7	65-135	0			
Chlorobenzene	920	30	1000	0	92	75-125	0			
Chloroethane	419	100	1000	0	41.9	40-155	0			
Chloroform	933.5	30	1000	0	93.4	70-125	0			
Chloromethane	894	100	1000	0	89.4	50-130	0			
cis-1,2-Dichloroethene	930.5	30	1000	0	93	65-125	0			
cis-1,3-Dichloropropene	919	30	1000	0	91.9	70-125	0			
Dibromochloromethane	856	30	1000	0	85.6	65-135	0			
Dichlorodifluoromethane	929.5	30	1000	0	93	35-135	0			
Ethylbenzene	949.5	30	1000	0	95	75-125	0			
Isopropylbenzene	985	30	1000	0	98.5	75-130	0			
Methyl tert-butyl ether	877	30	1000	0	87.7	75-125	0			
Methylene chloride	983.5	30	1000	0	98.4	55-145	0			
Styrene	952.5	30	1000	0	95.2	75-125	0			
Tetrachloroethene	996.5	30	1000	0	99.6	64-140	0			
Toluene	921	30	1000	0	92.1	70-125	0			
trans-1,2-Dichloroethene	1024	30	1000	0	102	65-135	0			
trans-1,3-Dichloropropene	946	30	1000	0	94.6	65-125	0			
Trichloroethene	1058	30	1000	0	106	75-125	0			
Trichlorofluoromethane	807.5	30	1000	0	80.8	25-185	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308938
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50979	Instrument ID VMS5		Method: SW8260B				
Vinyl chloride	862	30	1000	0	86.2	60-125	0
Xylenes, Total	2855	90	3000	0	95.2	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1002</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1026</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>103</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>992.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.2</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>997.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.8</i>	<i>70-130</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308938
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **50979** Instrument ID **VMS5** Method: **SW8260B**

MSD				Sample ID: 13081240-09A MSD				Units: µg/Kg		Analysis Date: 09/03/13 09:21 PM	
Client ID:			Run ID: VMS5_130903A			SeqNo: 2433921		Prep Date: 09/03/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	983	30	1000	0	98.3	70-135	992	0.911	30		
1,1,2,2-Tetrachloroethane	924	30	1000	0	92.4	55-130	908	1.75	30		
1,1,2-Trichloroethane	910.5	30	1000	0	91	60-125	914.5	0.438	30		
1,1-Dichloroethane	918.5	30	1000	0	91.8	75-125	925.5	0.759	30		
1,1-Dichloroethene	1050	30	1000	0	105	65-135	1062	1.14	30		
1,2,4-Trichlorobenzene	1109	30	1000	0	111	65-130	967.5	13.6	30		
1,2-Dibromo-3-chloropropane	979	30	1000	0	97.9	40-135	944.5	3.59	30		
1,2-Dibromoethane	949.5	30	1000	0	95	70-125	964.5	1.57	30		
1,2-Dichlorobenzene	956	30	1000	0	95.6	75-120	922	3.62	30		
1,2-Dichloroethane	924	30	1000	0	92.4	70-135	926	0.216	30		
1,2-Dichloropropane	888.5	30	1000	0	88.8	70-120	908	2.17	30		
1,3-Dichlorobenzene	931.5	30	1000	0	93.2	70-125	890.5	4.5	30		
1,4-Dichlorobenzene	957	30	1000	0	95.7	70-125	938	2.01	30		
2-Butanone	1070	200	1000	128.5	94.1	30-160	1128	5.32	30		
2-Hexanone	1081	30	1000	0	108	45-145	1086	0.507	30		
4-Methyl-2-pentanone	1356	30	1000	0	136	45-145	1310	3.41	30		
Acetone	1058	100	1000	123.5	93.4	20-160	1095	3.44	30	B	
Benzene	896	30	1000	0	89.6	75-125	928.5	3.56	30		
Bromodichloromethane	885	30	1000	0	88.5	70-130	901.5	1.85	30		
Bromoform	932.5	30	1000	0	93.2	55-135	938.5	0.641	30		
Bromomethane	406	75	1000	0	40.6	30-160	428.5	5.39	30		
Carbon disulfide	1035	30	1000	0	104	45-160	1070	3.33	30		
Carbon tetrachloride	971	30	1000	0	97.1	65-135	997	2.64	30		
Chlorobenzene	899.5	30	1000	0	90	75-125	920	2.25	30		
Chloroethane	392.5	100	1000	0	39.2	40-155	419	6.53	30	S	
Chloroform	914.5	30	1000	0	91.4	70-125	933.5	2.06	30		
Chloromethane	884	100	1000	0	88.4	50-130	894	1.12	30		
cis-1,2-Dichloroethene	929.5	30	1000	0	93	65-125	930.5	0.108	30		
cis-1,3-Dichloropropene	900	30	1000	0	90	70-125	919	2.09	30		
Dibromochloromethane	852.5	30	1000	0	85.2	65-135	856	0.41	30		
Dichlorodifluoromethane	929	30	1000	0	92.9	35-135	929.5	0.0538	30		
Ethylbenzene	918	30	1000	0	91.8	75-125	949.5	3.37	30		
Isopropylbenzene	963.5	30	1000	0	96.4	75-130	985	2.21	30		
Methyl tert-butyl ether	869	30	1000	0	86.9	75-125	877	0.916	30		
Methylene chloride	956	30	1000	0	95.6	55-145	983.5	2.84	30		
Styrene	946.5	30	1000	0	94.6	75-125	952.5	0.632	30		
Tetrachloroethene	976	30	1000	0	97.6	64-140	996.5	2.08	30		
Toluene	891.5	30	1000	0	89.2	70-125	921	3.26	30		
trans-1,2-Dichloroethene	1010	30	1000	0	101	65-135	1024	1.33	30		
trans-1,3-Dichloropropene	951.5	30	1000	0	95.2	65-125	946	0.58	30		
Trichloroethene	1034	30	1000	0	103	75-125	1058	2.3	30		
Trichlorofluoromethane	805	30	1000	0	80.5	25-185	807.5	0.31	30		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308938
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: 50979	Instrument ID VMS5	Method: SW8260B							
Vinyl chloride	841	30	1000	0	84.1	60-125	862	2.47	30
Xylenes, Total	2788	90	3000	0	92.9	75-125	2855	2.39	30
Surr: 1,2-Dichloroethane-d4	1021	0	1000	0	102	70-130	1002	1.93	30
Surr: 4-Bromofluorobenzene	1018	0	1000	0	102	70-130	1026	0.832	30
Surr: Dibromofluoromethane	998.5	0	1000	0	99.8	70-130	992.5	0.603	30
Surr: Toluene-d8	996.5	0	1000	0	99.6	70-130	997.5	0.1	30

The following samples were analyzed in this batch:	1308938-02A	1308938-05A	1308938-10A
	1308938-12A	1308938-14A	1308938-15A
	1308938-16A	1308938-30A	1308938-31A

Client: Conestoga-Rovers & Associates
Work Order: 1308938
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **R125773** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R125773				Units: % of sample		Analysis Date: 08/27/13 09:30 AM		
Client ID:		Run ID: MOIST_130827B				SeqNo: 2427654		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	0.03	0.050								J

LCS		Sample ID: LCS-R125773				Units: % of sample		Analysis Date: 08/27/13 09:30 AM		
Client ID:		Run ID: MOIST_130827B				SeqNo: 2427653		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100	0	100	99.5-100.5	0			

DUP		Sample ID: 1308927-01ADUP				Units: % of sample		Analysis Date: 08/27/13 09:30 AM		
Client ID:		Run ID: MOIST_130827B				SeqNo: 2427628		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	11.27	0.050	0	0	0	0-0	10.55	6.6	20	

DUP		Sample ID: 1308936-39BDUP				Units: % of sample		Analysis Date: 08/27/13 09:30 AM		
Client ID:		Run ID: MOIST_130827B				SeqNo: 2427642		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	9.72	0.050	0	0	0	0-0	10.1	3.83	20	

The following samples were analyzed in this batch:

1308938-01B	1308938-02B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308938
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **R125797** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R125797				Units: % of sample		Analysis Date: 08/27/13 12:00 PM		
Client ID:		Run ID: MOIST_130827C				SeqNo: 2428135		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.050

LCS		Sample ID: LCS-R125797				Units: % of sample		Analysis Date: 08/27/13 12:00 PM		
Client ID:		Run ID: MOIST_130827C				SeqNo: 2428134		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP		Sample ID: 1308809-01A Dup				Units: % of sample		Analysis Date: 08/27/13 12:00 PM		
Client ID:		Run ID: MOIST_130827C				SeqNo: 2428113		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 16.84 0.050 0 0 0 0-0 17.45 3.56 20

DUP		Sample ID: 1308938-07B Dup				Units: % of sample		Analysis Date: 08/27/13 12:00 PM		
Client ID: SO-17360-082113-MR-121		Run ID: MOIST_130827C				SeqNo: 2428124		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 64.96 0.050 0 0 0 0-0 61.07 6.17 20

The following samples were analyzed in this batch:

1308938-03B	1308938-04B	1308938-05B
1308938-06B	1308938-07B	1308938-08B
1308938-09B	1308938-10B	1308938-11B
1308938-12B	1308938-13B	1308938-14B
1308938-15B	1308938-16B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308938
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **R125800** Instrument ID **MOIST** Method: **A2540 G**

MBLK				Sample ID: WBLKS-R125800				Units: % of sample			Analysis Date: 08/27/13 02:00 PM			
Client ID:				Run ID: MOIST_130827D				SeqNo: 2428173			Prep Date:		DF: 1	
Analyte				Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.050

LCS				Sample ID: LCS-R125800				Units: % of sample			Analysis Date: 08/27/13 02:00 PM												
Client ID:				Run ID: MOIST_130827D				SeqNo: 2428172		Prep Date:		DF: 1											
Analyte				Result		PQL		SPK Val		SPK Ref Value		%REC		Control Limit		RPD Ref Value		%RPD		RPD Limit		Qual	

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP					Sample ID: 1308938-17B Dup					Units: % of sample			Analysis Date: 08/27/13 02:00 PM			
Client ID: SO-17360-082113-MR-134					Run ID: MOIST_130827D					SeqNo: 2428152			Prep Date:		DF: 1	
Analyte					Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 10.54 0.050 0 0 0 0-0 9.6 9.33 20

DUP					Sample ID: 1308938-23B Dup					Units: % of sample			Analysis Date: 08/27/13 02:00 PM			
Client ID: SO-17360-082213-MR-140					Run ID: MOIST_130827D					SeqNo: 2428162			Prep Date:		DF: 1	
Analyte					Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 4.96 0.050 0 0 0 0-0 4.12 18.5 20

The following samples were analyzed in this batch:

1308938-17B	1308938-18B	1308938-21B
1308938-22B	1308938-23B	1308938-25B
1308938-26B	1308938-27B	1308938-28B
1308938-29B	1308938-30B	1308938-31B
1308938-32B	1308938-33B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308938
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **R125803** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R125803				Units: % of sample		Analysis Date: 08/27/13 04:00 PM		
Client ID:		Run ID: MOIST_130827E				SeqNo: 2428186		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	0.03	0.050								J

LCS		Sample ID: LCS-R125803				Units: % of sample		Analysis Date: 08/27/13 04:00 PM		
Client ID:		Run ID: MOIST_130827E				SeqNo: 2428185		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100		0	100	99.5-100.5	0		

DUP		Sample ID: 13081009-01B DUP				Units: % of sample		Analysis Date: 08/27/13 04:00 PM		
Client ID:		Run ID: MOIST_130827E				SeqNo: 2428194		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	9.79	0.050	0		0	0	0-0	9.72	0.718	20

DUP		Sample ID: 13081009-07B DUP				Units: % of sample		Analysis Date: 08/27/13 04:00 PM		
Client ID:		Run ID: MOIST_130827E				SeqNo: 2428201		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	8.38	0.050	0		0	0	0-0	8.21	2.05	20

The following samples were analyzed in this batch:

1308938-24B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308938
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **R125837** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R125837				Units: % of sample		Analysis Date: 08/28/13		
Client ID:		Run ID: MOIST_130828C				SeqNo: 2429118		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.050

LCS		Sample ID: LCS-R125837				Units: % of sample		Analysis Date: 08/28/13		
Client ID:		Run ID: MOIST_130828C				SeqNo: 2429111		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP		Sample ID: 1308930-20A Dup				Units: % of sample		Analysis Date: 08/28/13		
Client ID:		Run ID: MOIST_130828C				SeqNo: 2429092		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 15.86 0.050 0 0 0 0-0 15.9 0.252 20

DUP		Sample ID: 1308938-23B DUP				Units: % of sample		Analysis Date: 08/28/13		
Client ID: SO-17360-082213-MR-140		Run ID: MOIST_130828C				SeqNo: 2429103		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 4.76 0.050 0 0 0 0-0 4.58 3.85 20

The following samples were analyzed in this batch:

1308938-21B	1308938-22B	1308938-23B
1308938-25B	1308938-26B	1308938-27B
1308938-34B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308938
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **R125842** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R125842				Units: % of sample		Analysis Date: 08/28/13		
Client ID:		Run ID: MOIST_130828B				SeqNo: 2429198		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.050

LCS		Sample ID: LCS-R125842				Units: % of sample		Analysis Date: 08/28/13		
Client ID:		Run ID: MOIST_130828B				SeqNo: 2429188		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP		Sample ID: 1308937-70A Dup				Units: % of sample		Analysis Date: 08/28/13		
Client ID:		Run ID: MOIST_130828B				SeqNo: 2429164		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 3.1 0.050 0 0 0 0-0 2.89 7.01 20

DUP		Sample ID: 1308940-02B Dup				Units: % of sample		Analysis Date: 08/28/13		
Client ID:		Run ID: MOIST_130828B				SeqNo: 2429171		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 5.08 0.050 0 0 0 0-0 5.63 10.3 20

The following samples were analyzed in this batch:

1308938-35B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1308938
Project: Former GRMP (17360-T05Y13-01Y13)

QC BATCH REPORT

Batch ID: **R125970** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R125970				Units: % of sample		Analysis Date: 08/30/13 07:15 PM		
Client ID:		Run ID: MOIST_130830D				SeqNo: 2431770		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.050

LCS		Sample ID: LCS-R125970				Units: % of sample		Analysis Date: 08/30/13 07:15 PM		
Client ID:		Run ID: MOIST_130830D				SeqNo: 2431769		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP		Sample ID: 13081091-01BDUP				Units: % of sample		Analysis Date: 08/30/13 07:15 PM		
Client ID:		Run ID: MOIST_130830D				SeqNo: 2431748		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 6.68 0.050 0 0 0 0-0 6.24 6.81 20

DUP		Sample ID: 13081091-11BDUP				Units: % of sample		Analysis Date: 08/30/13 07:15 PM		
Client ID:		Run ID: MOIST_130830D				SeqNo: 2431759		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 13.7 0.050 0 0 0 0-0 14.34 4.56 20

The following samples were analyzed in this batch:

1308938-36B 1308938-37B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

1308938
COC NO.: **PL-10100**

PAGE **90** OF **12**

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017360				Laboratory Name: ALS				Lab Location: Holland, MI				SSOW ID: 17360-705-19			
Project Name: Former Grand Rapids Metal Plant				Lab Contact: Tom Bemish				Lab Quote No:				Cooler No:			
Project Location: Wyoming, MI				SAMPLE TYPE				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)			
Chemistry Contact: Paul Wiseman				Matrix Code (see back of COC) Grab (G) or Comp (C)				Unpreserved Hydrochloric Acid (HCl) Nitric Acid (HNO ₃) Sulfuric Acid (H ₂ SO ₄) Sodium Hydroxide (NaOH) Methanol/Water (Soil VOC) EnCores 3x5-g, 1x25-g Other:				Total Containers/Sample TLC VOCs PAS TAL Metals			
Sampler(s): Matt Ramsey															
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)				DATE (mm/dd/yy)				TIME (hh:mm)				MS/MSD Request			
Item															
1	50-17360-082113-MR-115			8/21/13			1210			50			6		
2	-116			1215			1			1			1		
3	-117			1220			1			1			1		
4	-118			1225			1			1			1		
5	-119			1230			1			1			1		
6	-120			1235			1			1			1		
7	-121			1240			1			1			1		
8	-124			1355			1			1			1		
9	-125			1400			1			1			1		
10	-126			1405			1			1			1		
11	-128			1415			1			1			1		
12	-129			1420			1			1			1		
13	-130			1540			1			1			1		
14	-131			1545			1			1			1		
15	-132			1550			1			1			1		
TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☐ 2 Week ☒ Other: HOLD				Total Number of Containers:				Notes/ Special Requirements: HOLD							
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☐ 2 Week ☒ Other: HOLD				All Samples in Cooler must be on COC											
RELINQUISHED BY		COMPANY		DATE		TIME		RECEIVED BY		COMPANY		DATE		TIME	
1. Matt Ramsey		CRA		8/23/13				[Signature]		ALS		8/23/13		1615	
2.								2.							
3.								3.							

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CRA Form: COC-10A (20110804)



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Fax: (734) 453-5201

1308938
COC NO.: **PL-10092**
PAGE ~~12~~¹¹ OF 12
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017360						Laboratory Name: ALS								Lab Location: Holland, MI						SSOW ID: 17360-TOS-19																																	
Project Name: Former Grand Rapids Metal Plant						Lab Contact: Tom Bearish								Lab Quote No:						Cooler No:																																	
Project Location: Wyoming, MT						SAMPLE TYPE		CONTAINER QUANTITY & PRESERVATION										ANALYSIS REQUESTED (See Back of COC for Definitions)						Carrier: CRA																													
Chemistry Contact: Paul Wiseman						Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample									Airbill No:																												
Sampler(s): Matt Ramsey																									TCL VOCs	PWAs	TOTAL Metals	Date Shipped: 8/23/13																									
Item SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)						DATE (mm/dd/yyyy)						TIME (hh:mm)						COMMENTS/ SPECIAL INSTRUCTIONS:																																			
1 50-17360-082113-MR -133						8/21/13						1555						No Sars R/LIO LAB No Sars R/LIO LAB																																			
↓ -134						↓						1600																																									
-135						↓						1605																																									
4 50-17360-082213-MR -136						8/22/13						835						Hold																																			
↓ -137						↓						840																																									
-138						↓						845																																									
-139						↓						850																																									
-140						↓						855																																									
-141						↓						900																																									
-143						↓						915																																									
-144						↓						920																																									
-145						↓						925																																									
-146						↓						930																																									
-147						↓						940																																									
-148						↓						945																																									
TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☐ 2 Week ☒ Other: HOLD												Total Number of Containers:						Notes/ Special Requirements: HOLD																																			
												All Samples in Cooler must be on COC																																									
RELINQUISHED BY [Signature]						COMPANY CRA						DATE 8/23/13						TIME						RECEIVED BY [Signature]						COMPANY ALS						DATE 8/23/13						TIME 1615											
1.																								1.																													
2.																														2.																							
3.																														3.																							

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CRA Form: COC-10A (20110804)



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Fax: (734) 453-5201

1308938
COC NO.: **PL- 12006**
PAGE 12 OF 12

(See Reverse Side for Instructions)

[illegible]

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Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

1508938
COC NO.: **PL-10106**

PAGE 1 OF 1

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017368-TOSY13-01413				Laboratory Name: ALS				Lab Location: Holland MI				SSOW ID: 1736-TOSY			
Project Name: Foran Grad Rapids Metal Plant				Lab Contact: Tom Benish				Lab Quote No:				Cooler No:			
Project Location: Wyoming MI				SAMPLE TYPE				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)			
Chemistry Contact: P. Wiseman				Matrix Code (see back of COC) Grab (G) or Comp (C)				Unpreserved Hydrochloric Acid (HCl) Nitric Acid (HNO ₃) Sulfuric Acid (H ₂ SO ₄) Sodium Hydroxide (NaOH) Methanol/Water (Soil VOC) EnCores 3x5-g, 1x25-g Other:				Total Containers/Sample TCL VOCs PNA Six per HPLC			
Sampler(s): E. Daterberg															
Airbill No:				Date Shipped: 8-26-13				Carrier: Fedex				COMMENTS/ SPECIAL INSTRUCTIONS:			
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)				DATE (mm/dd/yy)				TIME (hh:mm)				MS/MSD Request			
1 50-17360-082613 EB-001				8/26/13 1640				20 6 1							
2 2 1 1 -002				1658				1 1 1				2 2 2			
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☐ 2 Week ☒ Other: HOLD								Total Number of Containers: 16 Notes/ Special Requirements:							
All Samples in Cooler must be on COC															
RELINQUISHED BY		COMPANY		DATE		TIME		RECEIVED BY		COMPANY		DATE		TIME	
1.		CRA		1750		8/26/13		2.		ALS		8/22/13		0945	
2.								3.							
3.															

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FedEx Express **NEW Package**
US Airbill

FedEx
Tracking
Number

8030 0774 6382

1 From

Date

8-26-13

Phone

269 685 5181

Sender's
Name

Eor 1 Batenburg

Company

Corestoga - Powers & Associates Inc.

Address

200 W. Allen St

City

Plainville

State

MI

ZIP 49080

3 To

Recipient's
Name

ALS Environmental

Company

ALS Environmental

Address

3352 128th Ave

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City

Holland

State

MI

ZIP

49424

☐ **HOLD Weekday**
FedEx location address
REQUIRED. NOT available for
FedEx First Overnight.

☐ **HOLD Saturday**
FedEx location address
REQUIRED. Available ONLY for
FedEx Priority Overnight and
FedEx 2Day to select locations.



8030 0774 6382

fedex.com 1.800.GoFedEx 1.800.463.3339

Sample Receipt Checklist

Client Name: CRA - PLYMOUTH

Date/Time Received: 23-Aug-13 16:15

Work Order: 1308938

Received by: KRW

Checklist completed by <u><i>Diane Shaw</i></u>	23-Aug-13	Reviewed by: <u><i>Tom Beamish</i></u>	26-Aug-13
eSignature	Date	eSignature	Date

Matrices: Soil

Carrier name: Client

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☒	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Sample(s) received on ice?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	<u>4.0 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>8/23/2013 4:53:15 PM</u>		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒
pH adjusted?	Yes ☐	No ☐	N/A ☒
pH adjusted by:			

Login Notes:

Client Contacted: yes Date Contacted: 26-Aug-13 Person Contacted: Paul Wiseman

Contacted By: Tom Beamish Regarding: Missing samples

Comments: The sample bottles for Lab ID 1308938-19 (SO-17360-082213-MR-136) & Lab ID 1308938-20 (SO-17360-082213-MR-137) were not in the coolers with the other samples.

CorrectiveAction:

Attachment C

Data Validation Memorandum



**CONESTOGA-ROVERS
& ASSOCIATES**

14496 Sheldon Road, Suite #200
Plymouth, Michigan 48170
Telephone: (734) 453-5123 Fax: (734) 453-5201
www.CRAworld.com

MEMORANDUM

TO: Jennifer Quigley

REF. NO.: 017360-T05Y13

FROM: Michael Richardson/ma/67/Det. 

DATE: September 30, 2013

E-Mail and Hard Copy if Requested

RE: **Analytical Results and Reduced Validation
Additional Site-Wide Investigation
RACER Grand Rapids Stamping
Grand Rapids, Michigan
August 2013**

INTRODUCTION

The following document details a reduced validation of analytical results for soil and water samples collected in support of the Additional Site-Wide Investigation at the RACER Grand Rapids Stamping Site during August 2013. Samples were submitted to ALS Environmental located in Holland, Michigan (ALS-MI). A sample collection and analysis summary is presented in Table 1. A summary of the analytical methodology is presented in Table 2.

Standard CRA report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, recovery data from surrogate spikes, laboratory control samples (LCS), matrix spikes, and field QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 2 and the documents entitled:

- i) "Former Grand Rapids Metal Plant Quality Assurance Project Plan (QAPP)", Revision 1, January 2006
- ii) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99-008, October 1999
- iii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 540/R-94-013, February 1994

Items ii) and iii) will subsequently be referred to as the "Guidelines" in this Memorandum.

CRA MEMORANDUM

SAMPLE HOLDING TIME AND PRESERVATION

The sample holding time criteria for the analyses are summarized in Table 2. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All samples were properly preserved and delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

LABORATORY METHOD BLANK ANALYSES

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of one per analytical batch.

Several laboratory method blanks were reported with parameters detected but the associated sample concentrations were either non-detect or exceeded five (5) or 10 (for common laboratory contaminants) times the method blank result; therefore, no qualification was required.

The samples presented in Table 3 were qualified due to laboratory contamination. The remaining method blank samples were reported to be free from detectable levels of target analytes, indicating no additional laboratory-attributable contamination occurred.

SURROGATE SPIKE RECOVERIES - ORGANIC ANALYSES

In accordance with the methods employed, all samples, blanks and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC), semi-volatile organic compound (SVOC), and polychlorinated biphenyl (PCB) determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and analysis.

Each individual surrogate compound is expected to meet the laboratory (method) control limits with the exception of SVOC analyses. According to the "Guidelines" for SVOC analyses, up to one outlying surrogate in the base/neutral or acid fractions is acceptable as long as the recovery is at least 10 percent.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries met the above criteria.

CRA MEMORANDUM

LABORATORY CONTROL SAMPLE (LCS) ANALYSES

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, LCS were analyzed at a minimum frequency of one per analytical batch.

Organic Analyses

The LCS contained all compounds of interest. Non-detect results associated with low VOC LCS recoveries greater than ten percent were qualified as estimated in Table 4. All remaining LCS recoveries were within the laboratory control limits, demonstrating acceptable analytical accuracy.

Inorganic Analyses

The LCS contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries were within the control limits, demonstrating acceptable analytical accuracy.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSES

To evaluate the effects of sample matrices on the extraction or digestion process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed.

MS/MSD analyses were performed as specified in Table 1. The laboratory performed additional site-specific MS/MSD analyses internally.

Organic Analyses

The MS/MSD samples were spiked with all compounds of interest. The samples that were qualified due to violation of MS/MSD percent recovery criteria are outlined in Table 5. All remaining percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision.

Inorganic Analyses

The MS/MSD samples were spiked with the analytes of interest and the results were evaluated using the "Guidelines". The samples that were qualified due to violation of MS/MSD percent recovery criteria are outlined in Table 5. All remaining percent recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision.

CRA MEMORANDUM

FIELD QA/QC SAMPLES

The field QA/QC consisted of five (5) trip blank samples and seventeen (17) field duplicate sample sets.

Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, five (5) trip blanks were submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, seventeen (17) field duplicate samples were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 and 100 percent for water and soil samples, respectively. If the reported concentration in either the investigative sample or its duplicate is less than five times the laboratory reporting limit (RL), the evaluation criteria is one or two times the RL value for water and soil samples, respectively.

Most field duplicates results showed adequate reproducibility, indicating satisfactory sampling and laboratory precision. The results for four samples and their field duplicates did show some variability. The original and duplicate sample results were qualified as estimated as detailed in Table 6.

ANALYTE REPORTING

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the MDL were qualified as estimated (J) unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL.

All soil results were reported on a dry weight basis.

CONCLUSION

Based on this assessment of the information provided, the data produced by ALS-MI were found to exhibit acceptable levels of accuracy and precision and may be used with the qualifications noted.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
AUGUST 2013

Sample Identification	Location	Matrix	Initial Sample			Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters					Comments
			Depth (ft. bgs)	Final Sample Depth (ft. bgs)	Depth (ft. bgs)			TCL VOCs	TCL SVOCs	PAHs	TAL Metals	TCL PCBs	
ALS Work Order: 1308937													
SO-017360-081913-MR-001	SB256-13	Soil	0	2		8/19/2013	11:24:00 AM					X	
SO-017360-081913-MR-002	SB256-13	Soil	2	4		8/19/2013	11:26:00 AM					X	
SO-017360-081913-MR-003	SB256-13	Soil	4	6		8/19/2013	11:28:00 AM					X	
SO-017360-081913-MR-004	SB256-13	Soil	6	8		8/19/2013	11:30:00 AM					X	
SO-017360-081913-MR-005	SB256-13	Soil	8	10		8/19/2013	11:32:00 AM					X	
SO-017360-081913-MR-006	SB256-13	Soil	10	12		8/19/2013	11:34:00 AM					X	
SO-017360-081913-MR-007	SB256-13	Soil	12	14		8/19/2013	11:36:00 AM					X	
SO-017360-081913-MR-008	SB256-13	Soil	14	16		8/19/2013	11:38:00 AM					X	
SO-017360-081913-MR-009	SB256-13	Soil	8	10		8/19/2013	11:40:00 AM					X	
SO-017360-081913-MR-010	SB255-13	Soil	2	4		8/19/2013	11:50:00 AM					X	Duplicate of SB256-13 8-10'
SO-017360-081913-MR-011	SB255-13	Soil	4	6		8/19/2013	11:52:00 AM					X	
SO-017360-081913-MR-012	SB255-13	Soil	6	8		8/19/2013	11:54:00 AM					X	
SO-017360-081913-MR-013	SB255-13	Soil	8	10		8/19/2013	11:56:00 AM					X	
SO-017360-081913-MR-014	SB255-13	Soil	10	12		8/19/2013	11:58:00 AM					X	
SO-017360-081913-MR-015	SB255-13	Soil	12	14		8/19/2013	12:00:00 PM					X	
SO-017360-081913-MR-016	SB255-13	Soil	14	16		8/19/2013	12:02:00 PM					X	MS/MSD
SO-017360-081913-MR-018	SB255-13	Soil	8	10		8/19/2013	12:06:00 PM					X	Duplicate of SB255-13 8-10'
SO-017360-081913-MR-019	SB262-13	Soil	2	4		8/19/2013	12:40:00 PM					X	
SO-017360-081913-MR-020	SB262-13	Soil	4	6		8/19/2013	12:42:00 PM					X	
SO-017360-081913-MR-021	SB262-13	Soil	6	8		8/19/2013	12:44:00 PM					X	
SO-017360-081913-MR-022	SB262-13	Soil	8	10		8/19/2013	12:46:00 PM					X	
SO-017360-081913-MR-023	SB262-13	Soil	8	10		8/19/2013	12:48:00 PM					X	Duplicate of SB262-13 8-10'
SO-017360-081913-MR-024	SB262-13	Soil	10	12		8/19/2013	12:50:00 PM					X	MS/MSD
SO-017360-081913-MR-026	SB262-13	Soil	12	14		8/19/2013	12:54:00 PM					X	
SO-017360-081913-MR-027	SB261-13	Soil	0	2		8/19/2013	1:20:00 PM					X	
SO-017360-081913-MR-028	SB261-13	Soil	2	4		8/19/2013	1:22:00 PM					X	
SO-017360-081913-MR-029	SB261-13	Soil	4	6		8/19/2013	1:24:00 PM					X	

TABLE 1

**SAMPLE COLLECTION AND ANALYSIS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
AUGUST 2013**

Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs)	Final Sample Depth (ft. bgs)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters					Comments
							TCL VOCs	TCL SVOCs	PAHs	TAL Metals	TCL PCBs	
ALS Work Order: 1308937 (Continued)												
SO-017360-081913-MR-030	SB261-13	Soil	6	8	8/19/2013	1:26:00 PM					X	
SO-017360-081913-MR-031	SB261-13	Soil	8	10	8/19/2013	1:28:00 PM					X	
SO-017360-081913-MR-032	SB261-13	Soil	10	12	8/19/2013	1:30:00 PM					X	
SO-017360-081913-MR-033	SB261-13	Soil	12	14	8/19/2013	1:32:00 PM					X	
SO-017360-081913-MR-034	SB259-13	Soil	0	2	8/19/2013	1:50:00 PM					X	
SO-017360-081913-MR-035	SB259-13	Soil	2	4	8/19/2013	1:52:00 PM					X	
SO-017360-081913-MR-036	SB259-13	Soil	2	4	8/19/2013	1:54:00 PM					X	Duplicate of SB259-13 2-4'
SO-017360-081913-MR-037	SB259-13	Soil	4	6	8/19/2013	1:56:00 PM					X	
SO-017360-081913-MR-038	SB259-13	Soil	6	8	8/19/2013	1:58:00 PM					X	
SO-017360-081913-MR-039	SB259-13	Soil	8	10	8/19/2013	2:00:00 PM					X	
SO-017360-081913-MR-040	SB259-13	Soil	10	12	8/19/2013	2:02:00 PM					X	
SO-017360-081913-MR-041	SB259-13	Soil	12	14	8/19/2013	2:04:00 PM					X	
SO-017360-081913-MR-042	SB260-13	Soil	0	2	8/19/2013	2:25:00 PM					X	MS/MSD
SO-017360-081913-MR-043	SB260-13	Soil	2	4	8/19/2013	2:27:00 PM					X	
SO-017360-081913-MR-045	SB260-13	Soil	4	6	8/19/2013	2:31:00 PM					X	
SO-017360-081913-MR-046	SB260-13	Soil	4	6	8/19/2013	2:33:00 PM					X	Duplicate of SB260-13 4-6'
SO-017360-081913-MR-047	SB260-13	Soil	6	8	8/19/2013	2:35:00 PM					X	
SO-017360-081913-MR-048	SB260-13	Soil	8	10	8/19/2013	2:37:00 PM					X	
SO-017360-081913-MR-049	SB260-13	Soil	10	12	8/19/2013	2:39:00 PM					X	
SO-017360-081913-MR-050	SB260-13	Soil	12	14	8/19/2013	2:41:00 PM					X	
SO-017360-081913-MR-051	SB258-13	Soil	0	2	8/19/2013	2:43:00 PM					X	
SO-017360-081913-MR-052	SB258-13	Soil	2	4	8/19/2013	2:45:00 PM					X	
SO-017360-081913-MR-053	SB258-13	Soil	4	6	8/19/2013	2:47:00 PM					X	
SO-017360-081913-MR-054	SB258-13	Soil	6	8	8/19/2013	2:49:00 PM					X	
SO-017360-081913-MR-055	SB258-13	Soil	8	10	8/19/2013	2:51:00 PM					X	
SO-017360-081913-MR-056	SB258-13	Soil	8	10	8/19/2013	2:53:00 PM					X	Duplicate of SB258-13 8-10'
SO-017360-081913-MR-057	SB258-13	Soil	10	12	8/19/2013	2:55:00 PM					X	

TABLE 1

**SAMPLE COLLECTION AND ANALYSIS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
AUGUST 2013**

Analysis/Parameters												
Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs)	Final Sample Depth (ft. bgs)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	TCL VOCs	TCL SVOCs	PAHs	TAL Metals	TCL PCBs	Comments
ALS Work Order: 1308937 (Continued)												
SO-017360-081913-MR-058	SB257-13	Soil	0	2	8/19/2013	3:10:00 PM					X	
SO-017360-081913-MR-059	SB257-13	Soil	2	4	8/19/2013	3:12:00 PM					X	
SO-017360-081913-MR-060	SB257-13	Soil	4	6	8/19/2013	3:14:00 PM					X	
SO-017360-081913-MR-061	SB257-13	Soil	4	6	8/19/2013	3:16:00 PM					X	Duplicate of SB257-13 4-6'
SO-017360-081913-MR-062	SB257-13	Soil	6	8	8/19/2013	3:18:00 PM					X	MS/MSD
SO-017360-081913-MR-064	SB257-13	Soil	8	10	8/19/2013	3:22:00 PM					X	
SO-017360-081913-MR-065	SB257-13	Soil	10	12	8/19/2013	3:24:00 PM					X	
SO-017360-081913-MR-066	SB257-13	Soil	12	14	8/19/2013	3:26:00 PM					X	
SO-017360-082113-MR-113	SB254-13	Soil	9	9.75	8/21/2013	9:15:00 AM	X	X				
SO-017360-082113-MR-114	SB254-13	Soil	9.75	11	8/21/2013	9:25:00 AM	X	X				
SO-17360-082213-MR-152	SB263-13	Soil	5	6	8/22/2013	11:00:00 AM	X		X	X	X	
SO-17360-082213-MR-153	SB263-13	Soil	19	20	8/22/2013	11:50:00 AM	X		X	X	X	
SO-17360-082213-MR-154	SB264-13	Soil	6	7	8/22/2013	1:10:00 PM	X		X	X	X	
SO-17360-082213-MR-155	SB264-13	Soil	20	22	8/22/2013	1:15:00 PM	X		X	X	X	
SO-17360-082213-MR-156	SB264-13	Soil	20	22	8/22/2013	1:20:00 PM	X		X	X	X	Duplicate of SB264-13 20-22'
SO-17360-082213-MR-157	SB266-13	Soil	4	5	8/22/2013	2:40:00 PM	X		X	X	X	
SO-17360-082213-MR-158	SB265-13	Soil	5	6	8/22/2013	3:05:00 PM	X		X	X	X	
SO-17360-082213-MR-159	SB265-13	Soil	14	15	8/22/2013	3:15:00 PM	X		X	X	X	
TB-17360-082213-MR-160	--	Soil			8/22/2013	8/22/2013	X					Trip Blank
TB-17360-082213-MR-161	--	Soil			8/22/2013	8/22/2013	X					Trip Blank
TB-17360-082213-MR-162	--	Soil			8/22/2013	8/22/2013	X					Trip Blank
TB-17360-082213-MR-163	--	Soil			8/22/2013	8/22/2013	X					Trip Blank
TB-17360-082213-MR-164	--	Soil			8/22/2013	8/22/2013	X					Trip Blank
WG-17360-082113-EB-122	TW254-13	Groundwater	16	20	8/21/2013	3:00:00 PM	X	X				MS/MSD
WG-17360-082113-EB-123	TW254-13	Groundwater	16	20	8/21/2013	3:15:00 PM	X	X				Duplicate of TW254-13 16-20'

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
AUGUST 2013

Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs)	Final Sample Depth (ft. bgs)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters					Comments
							TCL VOCs	TCL SVOCs	PAHs	TAL Metals	TCL PCBs	
ALS Work Order: 1308936												
SO-17360-082013-MR-067	SB250-13	Soil	0	2	8/20/2013	9:20:00 AM	X	X	X	X	X	Duplicate of SB250-13 4-6'
SO-17360-082013-MR-068	SB250-13	Soil	2	4	8/20/2013	9:25:00 AM	X	X	X	X	X	
SO-17360-082013-MR-069	SB250-13	Soil	4	6	8/20/2013	9:30:00 AM	X	X	X	X	X	
SO-17360-082013-MR-070	SB250-13	Soil	4	6	8/20/2013	9:35:00 AM	X	X	X	X	X	
SO-17360-082013-MR-071	SB250-13	Soil	6	8	8/20/2013	9:40:00 AM	X	X	X	X	X	Duplicate of SB248-13 4-6' MS/MSD
SO-17360-082013-MR-072	SB250-13	Soil	8	10	8/20/2013	9:45:00 AM	X	X	X	X	X	
SO-17360-082013-MR-073	SB249-13	Soil	0	2	8/20/2013	10:50:00 AM	X	X	X	X	X	
SO-17360-082013-MR-074	SB249-13	Soil	2	4	8/20/2013	10:55:00 AM	X	X	X	X	X	
SO-17360-082013-MR-075	SB249-13	Soil	4	6	8/20/2013	11:00:00 AM	X	X	X	X	X	Duplicate of SB246-13 2-4'
SO-17360-082013-MR-076	SB249-13	Soil	6	8	8/20/2013	11:05:00 AM	X	X	X	X	X	
SO-17360-082013-MR-077	SB249-13	Soil	8	10	8/20/2013	11:10:00 AM	X	X	X	X	X	
SO-17360-082013-MR-078	SB248-13	Soil	0	2	8/20/2013	11:30:00 AM	X	X	X	X	X	
SO-17360-082013-MR-079	SB248-13	Soil	2	4	8/20/2013	11:35:00 AM	X	X	X	X	X	Duplicate of SB246-13 2-4'
SO-17360-082013-MR-080	SB248-13	Soil	4	6	8/20/2013	11:40:00 AM	X	X	X	X	X	
SO-17360-082013-MR-081	SB248-13	Soil	4	6	8/20/2013	11:45:00 AM	X	X	X	X	X	
SO-17360-082013-MR-082	SB248-13	Soil	6	8	8/20/2013	11:50:00 AM	X	X	X	X	X	
SO-17360-082013-MR-084	SB248-13	Soil	8	10	8/20/2013	12:00:00 PM	X	X	X	X	X	Duplicate of SB246-13 2-4'
SO-17360-082013-MR-085	SB247-13	Soil	0	2	8/20/2013	12:25:00 PM	X	X	X	X	X	
SO-17360-082013-MR-086	SB247-13	Soil	2	4	8/20/2013	12:30:00 PM	X	X	X	X	X	
SO-17360-082013-MR-087	SB247-13	Soil	4	6	8/20/2013	12:35:00 PM	X	X	X	X	X	
SO-17360-082013-MR-088	SB247-13	Soil	6	8	8/20/2013	12:40:00 PM	X	X	X	X	X	Duplicate of SB246-13 2-4'
SO-17360-082013-MR-089	SB247-13	Soil	8	10	8/20/2013	12:45:00 PM	X	X	X	X	X	
SO-17360-082013-MR-089 (246-13)	SB246-13	Soil	0	2	8/20/2013	1:00:00 PM	X	X	X	X	X	
SO-17360-082013-MR-090	SB246-13	Soil	2	4	8/20/2013	1:05:00 PM	X	X	X	X	X	
SO-17360-082013-MR-091	SB246-13	Soil	2	4	8/20/2013	1:10:00 PM	X	X	X	X	X	Duplicate of SB246-13 2-4'
SO-17360-082013-MR-092	SB246-13	Soil	4	6	8/20/2013	1:15:00 PM	X	X	X	X	X	
SO-17360-082013-MR-093	SB246-13	Soil	6	8	8/20/2013	1:20:00 PM	X	X	X	X	X	

TABLE 1

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ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
AUGUST 2013**

Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs)	Final Sample Depth (ft. bgs)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters					Comments
							TCL VOCs	TCL SVOCs	PAHs	TAL Metals	TCL PCBs	
ALS Work Order: 1308936 (Continued)												
SO-17360-082013-MR-094	SB246-13	Soil	8	10	8/20/2013	1:25:00 PM	X	X	X	X		
SO-17360-082013-MR-095	SB253-13	Soil	0	2	8/20/2013	2:10:00 PM	X	X	X	X		
SO-17360-082013-MR-096	SB253-13	Soil	2	4	8/20/2013	2:15:00 PM	X	X	X	X		
SO-17360-082013-MR-097	SB253-13	Soil	4	6	8/20/2013	2:20:00 PM	X	X	X	X		
SO-17360-082013-MR-098	SB253-13	Soil	6	8	8/20/2013	2:25:00 PM	X	X	X	X		
SO-17360-082013-MR-099	SB253-13	Soil	8	10	8/20/2013	2:30:00 PM	X	X	X	X		
SO-17360-082013-MR-100	SB252-13	Soil	0	2	8/20/2013	3:05:00 PM	X	X	X	X		
SO-17360-082013-MR-101	SB252-13	Soil	2	4	8/20/2013	3:10:00 PM	X	X	X	X		
SO-17360-082013-MR-102	SB252-13	Soil	2	4	8/20/2013	3:15:00 PM	X	X	X	X		Duplicate of SB252-13 2-4'
SO-17360-082013-MR-103	SB252-13	Soil	4	6	8/20/2013	3:20:00 PM	X	X	X	X		
SO-17360-082013-MR-104	SB252-13	Soil	6	8	8/20/2013	3:25:00 PM	X	X	X	X		
SO-17360-082013-MR-105	SB252-13	Soil	8	10	8/20/2013	3:30:00 PM	X	X	X	X		
SO-17360-082013-MR-106	SB251-13	Soil	0	2	8/20/2013	4:15:00 PM	X	X	X	X		
SO-17360-082013-MR-108	SB251-13	Soil	2	4	8/20/2013	4:25:00 PM	X	X	X	X		
SO-17360-082013-MR-109	SB251-13	Soil	4	6	8/20/2013	4:30:00 PM	X	X	X	X		
SO-17360-082013-MR-110	SB251-13	Soil	6	8	8/20/2013	4:35:00 PM	X	X	X	X		
SO-17360-082013-MR-111	SB251-13	Soil	6	8	8/20/2013	4:40:00 PM	X	X	X	X		Duplicate of SB251-13 6-8'
SO-17360-082013-MR-112	SB251-13	Soil	8	10	8/20/2013	4:45:00 PM	X	X	X	X		
ALS Work Order: 1308938												
SO-17360-082113-MR-115	SB267-13	Soil	0	2	8/21/2013	12:10:00 PM						Hold
SO-17360-082113-MR-116	SB267-13	Soil	2	4	8/21/2013	12:15:00 PM	X					MS/MSD
SO-17360-082113-MR-117	SB267-13	Soil	4	6	8/21/2013	12:20:00 PM						Hold
SO-17360-082113-MR-118	SB267-13	Soil	6	8	8/21/2013	12:25:00 PM						Hold
SO-17360-082113-MR-119	SB267-13	Soil	8	9.8	8/21/2013	12:30:00 PM	X					
SO-17360-082113-MR-120	SB267-13	Soil	10	12	8/21/2013	12:35:00 PM						Hold
SO-17360-082113-MR-121	SB267-13	Soil	12.5	14.5	8/21/2013	12:40:00 PM						Hold

TABLE 1

**SAMPLE COLLECTION AND ANALYSIS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
AUGUST 2013**

Sample Identification	Location	Matrix	Initial Sample Depth		Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters					Comments
			(ft. bgs)	Final Sample Depth (ft. bgs)			TCL VOCs	TCL SVOCs	PAHs	TAL Metals	TCL PCBs	
ALS Work Order: 1308938 (Continued)												
SO-17360-082113-MR-124	SB269-13	Soil	0	2	8/21/2013	1:55:00 PM						Hold
SO-17360-082113-MR-125	SB269-13	Soil	0	2	8/21/2013	2:00:00 PM						Hold
SO-17360-082113-MR-126	SB269-13	Soil	2	4	8/21/2013	2:05:00 PM	X					MS/MSD
SO-17360-082113-MR-128	SB269-13	Soil	6	8	8/21/2013	2:15:00 PM						Hold
SO-17360-082113-MR-129	SB269-13	Soil	8	10	8/21/2013	2:20:00 PM	X					Hold
SO-17360-082113-MR-130	SB270-13	Soil	0	2	8/21/2013	3:40:00 PM						Hold
SO-17360-082113-MR-131	SB270-13	Soil	2	4	8/21/2013	3:45:00 PM	X			X		Duplicate of SB270-13 2-4 ¹
SO-17360-082113-MR-132	SB270-13	Soil	2	4	8/21/2013	3:50:00 PM	X			X		
SO-17360-082113-MR-133	SB270-13	Soil	4	6	8/21/2013	3:55:00 PM	X			X		
SO-17360-082113-MR-134	SB270-13	Soil	6	8	8/21/2013	4:00:00 PM						Hold
SO-17360-082113-MR-135	SB270-13	Soil	8	10	8/21/2013	4:05:00 PM						Hold
SO-17360-082213-MR-127	SB269-13	Soil	4	6	8/22/2013	2:10:00 PM						Hold
SO-17360-082213-MR-138	SB271-13	Soil	4	6	8/22/2013	8:45:00 AM						Hold
SO-17360-082213-MR-139	SB271-13	Soil	6	8	8/22/2013	8:50:00 AM						Hold
SO-17360-082213-MR-140	SB271-13	Soil	8	10	8/22/2013	8:55:00 AM						Hold
SO-17360-082213-MR-141	SB272-13	Soil	0	2	8/22/2013	9:00:00 AM						Hold
SO-17360-082213-MR-142	SB272-13	Soil	2	4	8/22/2013	9:10:00 AM						Hold
SO-17360-082213-MR-143	SB272-13	Soil	4	6	8/22/2013	9:15:00 AM						Hold
SO-17360-082213-MR-144	SB272-13	Soil	6	8	8/22/2013	9:20:00 AM						Hold
SO-17360-082213-MR-145	SB272-13	Soil	6	8	8/22/2013	9:25:00 AM						Hold
SO-17360-082213-MR-146	SB272-13	Soil	8	10	8/22/2013	9:30:00 AM						Hold
SO-17360-082213-MR-147	SB273-13	Soil	0	2	8/22/2013	9:40:00 AM						Hold
SO-17360-082213-MR-148	SB273-13	Soil	2	4	8/22/2013	9:45:00 AM	X			X		
SO-17360-082213-MR-149	SB273-13	Soil	4	6	8/22/2013	9:50:00 AM	X			X		
SO-17360-082213-MR-150	SB273-13	Soil	6	8	8/22/2013	9:55:00 AM						Hold

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
AUGUST 2013

Sample Identification	Location	Matrix	Initial		Final		Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters					Comments
			Sample Depth (ft. bgs)	Sample Depth (ft. bgs)	TCL VOCs	TCL SVOCs			PAHs	TAL Metals	TCL PCBs			
ALS Work Order: 1308938 (Continued)														
SO-17360-082213-MR-151	SB273-13	Soil	8		10		8/22/2013	10:00:00 AM						Hold
SO-17360-082613-EB-001	SB271-13	Soil	0		2		8/26/2013	4:40:00 PM						Hold
SO-17360-082613-EB-002	SB271-13	Soil	2		4		8/26/2013	4:58:00 PM						Hold

Notes:

ft. bgs - Feet below ground surface
PCBs - Polychlorinated biphenyls
PAH - Polynuclear aromatic hydrocarbons
SVOC - Semi-volatile organic compounds
TAL - Target analyte list
TCL - Target compound list
VOC - Volatile organic compounds
MS/MSD - Matrix spike/Matrix spike duplicate

TABLE 2

ANALYTICAL METHODS AND HOLDING TIME CRITERIA
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
AUGUST 2013

<i>Parameter</i>	<i>Method</i>	<i>Matrix</i>	<i>Holding Time</i>	
			<i>Collection to Extraction (days)</i>	<i>Collection or Extraction to Analysis (days)</i>
TCL VOCs	SW-846 8260B	Water	-	14
	SW-846 8260B	Soil	-	14
TCL SVOCs/PAHs	SW-846 8270C	Water	7	40
	SW-846 8270C	Soil	14	40
TCL PCBs	SW-846 8082	Soil	14	40
TAL Metals	SW-846 6020	Soil	-	180
Mercury	SW-846 7471A	Soil	-	28

Notes:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions.

PCBs - Polychlorinated biphenyls

PAH - Polynuclear aromatic hydrocarbons

SVOC - Semi-volatile organic compounds

TAL - Target analyte list

TCL - Target compound list

VOC - Volatile organic compounds

TABLE 3

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
AUGUST 2013

<i>Parameter</i>	<i>Analyte</i>	<i>Analysis Date (mm/dd/yyyy)</i>	<i>Blank Result *</i>	<i>Sample ID</i>	<i>Original Result</i>	<i>Qualified Result</i>	<i>Units</i>
TAL Metals	Antimony	8/29/2013	0.0216 J	SO-17360-082213-MR-153	0.051 J	0.24 U	mg/kg
				SO-17360-082213-MR-154	0.098 J	0.36 U	mg/kg
				SO-17360-082213-MR-155	0.055 J	0.30 U	mg/kg
				SO-17360-082213-MR-156	0.057 J	0.30 U	mg/kg
				SO-17360-082213-MR-158	0.041 J	0.26 U	mg/kg
				SO-17360-082213-MR-159	0.047 J	0.24 U	mg/kg
TAL Metals	Cadmium	8/29/2013	0.02191 J	SO-17360-082213-MR-152	0.052 J	0.15 U	mg/kg
				SO-17360-082213-MR-153	0.027 J	0.096 U	mg/kg
				SO-17360-082213-MR-154	0.048 J	0.15 U	mg/kg
				SO-17360-082213-MR-155	0.027 J	0.12 U	mg/kg
				SO-17360-082213-MR-156	0.033 J	0.12 U	mg/kg
				SO-17360-082213-MR-157	0.069 J	0.14 U	mg/kg
TAL Metals	Lead	8/29/2013	0.3972 J	SO-17360-082213-MR-158	0.032 J	0.10 U	mg/kg
				SO-17360-082213-MR-159	0.024 J	0.095 U	mg/kg
				SO-17360-082213-MR-156	2.8	2.8 U	mg/kg
				SO-17360-082213-MR-158	3.3	3.3 U	mg/kg
				SO-17360-082213-MR-159	2.8	2.8 U	mg/kg
TAL Metals	Molybdenum	8/29/2013	0.05095 J	SO-17360-082213-MR-152	0.22 J	0.37 U	mg/kg
				SO-17360-082213-MR-153	0.15 J	0.24 U	mg/kg
				SO-17360-082213-MR-154	0.18 J	0.36 U	mg/kg
				SO-17360-082213-MR-155	0.22 J	0.30 U	mg/kg
				SO-17360-082213-MR-158	0.12 J	0.26 U	mg/kg
				SO-17360-082213-MR-159	0.14 J	0.24 U	mg/kg
TAL Metals	Selenium	8/29/2013	0.04565 J	SO-17360-082213-MR-152	0.22 J	0.37 U	mg/kg
				SO-17360-082213-MR-153	0.21 J	0.24 U	mg/kg
				SO-17360-082213-MR-154	0.21 J	0.36 U	mg/kg
				SO-17360-082213-MR-155	0.19 J	0.30 U	mg/kg

TABLE 3

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 AUGUST 2013

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
TAL Metals	Silver	8/29/2013	0.01374 J	SO-17360-082213-MR-152	0.002 J	0.37 U	mg/kg
				SO-17360-082213-MR-153	0.003 J	0.24 U	mg/kg
				SO-17360-082213-MR-154	0.002 J	0.36 U	mg/kg
				SO-17360-082213-MR-155	0.010 J	0.30 U	mg/kg
				SO-17360-082213-MR-156	0.005 J	0.30 U	mg/kg
				SO-17360-082213-MR-157	0.004 J	0.35 U	mg/kg
				SO-17360-082213-MR-158	0.002 J	0.26 U	mg/kg
				SO-17360-082213-MR-159	0.003 J	0.24 U	mg/kg
TAL Metals	Mercury	8/26/2013	0.003167 J	SO-17360-082013-MR-068	0.014 J	0.040 U	mg/kg
				SO-17360-082013-MR-069	0.012 J	0.038 U	mg/kg
				SO-17360-082013-MR-070	0.013 J	0.036 U	mg/kg
				SO-17360-082013-MR-075	0.009 J	0.043 U	mg/kg
				SO-17360-082013-MR-076	0.013 J	0.039 U	mg/kg
				SO-17360-082013-MR-079	0.015 J	0.037 U	mg/kg
				SO-17360-082013-MR-081	0.013 J	0.037 U	mg/kg
				SO-17360-082013-MR-082	0.012 J	0.038 U	mg/kg
TAL Metals	Silver	8/27/2013	0.002779 J	SO-17360-082013-MR-076	0.008 J	0.38 U	mg/kg
				SO-17360-082013-MR-077	0.008 J	0.38 U	mg/kg
				SO-17360-082013-MR-078	0.013 J	0.38 U	mg/kg
				SO-17360-082013-MR-079	0.009 J	0.40 U	mg/kg
				SO-17360-082013-MR-080	0.007 J	0.38 U	mg/kg
				SO-17360-082013-MR-081	0.005 J	0.40 U	mg/kg
				SO-17360-082013-MR-082	0.002 J	0.37 U	mg/kg
				SO-17360-082013-MR-084	0.007 J	0.38 U	mg/kg
				SO-17360-082013-MR-085	0.011 J	0.38 U	mg/kg
				SO-17360-082013-MR-086	0.007 J	0.38 U	mg/kg
				SO-17360-082013-MR-087	0.007 J	0.40 U	mg/kg

TABLE 3

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 AUGUST 2013

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
TAL Metals	Thallium	8/27/2013	0.03156 J	SO-17360-082013-MR-067	0.092 J	0.40 U	mg/kg
				SO-17360-082013-MR-068	0.064 J	0.39 U	mg/kg
				SO-17360-082013-MR-069	0.050 J	0.39 U	mg/kg
				SO-17360-082013-MR-070	0.047 J	0.39 U	mg/kg
				SO-17360-082013-MR-071	0.054 J	0.39 U	mg/kg
				SO-17360-082013-MR-072	0.093 J	0.40 U	mg/kg
				SO-17360-082013-MR-073	0.062 J	0.39 U	mg/kg
				SO-17360-082013-MR-074	0.15 J	0.40 U	mg/kg
				SO-17360-082013-MR-076	0.091 J	0.38 U	mg/kg
				SO-17360-082013-MR-077	0.051 J	0.38 U	mg/kg
				SO-17360-082013-MR-078	0.039 J	0.38 U	mg/kg
				SO-17360-082013-MR-079	0.037 J	0.40 U	mg/kg
				SO-17360-082013-MR-080	0.039 J	0.38 U	mg/kg
				SO-17360-082013-MR-081	0.031 J	0.40 U	mg/kg
				SO-17360-082013-MR-082	0.027 J	0.37 U	mg/kg
				SO-17360-082013-MR-084	0.071 J	0.38 U	mg/kg
TCL VOCs	Acetone	8/26/2013	90.5 J	SO-17360-082013-MR-070	92 J	110 U	ug/kg
				SO-17360-082013-MR-086	68 J	110 U	ug/kg
				SO-17360-082013-MR-089	120 J	130 U	ug/kg
				SO-17360-082013-MR-089 (246-13)	82 J	110 U	ug/kg
				SO-17360-082013-MR-099	480	480 U	ug/kg
				SO-17360-082013-MR-100	140	140 U	ug/kg
				SO-17360-082013-MR-067	77 J	82 U	ug/kg
				SO-17360-082013-MR-068	86 J	86 U	ug/kg
				SO-17360-082013-MR-086	55 J	58 U	ug/kg
TCL VOCs	Methylene chloride	8/26/2013	35 J	SO-17360-082013-MR-087	89 J	98 U	ug/kg

TABLE 3

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
AUGUST 2013

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
TCL VOCs (Continued)	Methylene chloride	8/26/2013	35 J	SO-17360-082013-MR-088	70 J	73 U	ug/kg
				SO-17360-082013-MR-089	100 J	110 U	ug/kg
				SO-17360-082013-MR-089 (246-13)	110 J	110 U	ug/kg
				SO-17360-082013-MR-090	130 J	140 U	ug/kg
				SO-17360-082013-MR-091	110 J	120 U	ug/kg
				SO-17360-082013-MR-092	110 J	120 U	ug/kg
				SO-17360-082013-MR-093	110 J	120 U	ug/kg
				SO-17360-082013-MR-094	92 J	93 U	ug/kg
				SO-17360-082013-MR-095	91 J	92 U	ug/kg
				SO-17360-082013-MR-096	87 J	90 U	ug/kg
				SO-17360-082013-MR-097	83 J	85 U	ug/kg
				SO-17360-082013-MR-098	70 J	73 U	ug/kg
				SO-17360-082013-MR-099	110 J	120 U	ug/kg
				SO-17360-082013-MR-100	84 J	89 U	ug/kg
TAL Metals	Selenium	9/9/2013	0.04958 J	SO-17360-082113-MR-131	0.14 J	0.33 U	mg/kg
				SO-17360-082113-MR-132	0.15 J	0.37 U	mg/kg
				SO-17360-082113-MR-133	0.70 J	2.0 U	mg/kg
TAL Metals	Molybdenum	9/9/2013	0.01758 J	SO-17360-082213-MR-149	3.0 J	18 U	mg/kg

Notes:

* - Blank result adjusted for sample factors where applicable.

U - Not detected at the associated reporting limit.

J - Estimated concentration.

TAL - Target analyte list

TCL - Target compound list

VOC - Volatile organic compounds

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING LABORATORY CONTROL SAMPLE RESULTS
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
AUGUST 2013

<i>Parameter</i>	<i>Analyte</i>	<i>LCS Date (mm/dd/yyyy)</i>	<i>LCS (percent)</i>	<i>Control Limits (percent)</i>	<i>Associated Sample ID</i>	<i>Qualified Results</i>	<i>Units</i>
TCL VOCs	Bromomethane	8/27/2013	29	30-160	SO-17360-082013-MR-105	86 UJ	ug/kg
					SO-17360-082013-MR-108	81 UJ	ug/kg
					SO-17360-082013-MR-109	92 UJ	ug/kg
					SO-17360-082013-MR-110	92 UJ	ug/kg
					SO-17360-082013-MR-111	83 UJ	ug/kg
					SO-17360-082013-MR-112	86 UJ	ug/kg
					SO-017360-082113-MR-113	180 UJ	ug/kg
					SO-017360-082113-MR-114	93 UJ	ug/kg
					SO-17360-082213-MR-152	82 UJ	ug/kg
					SO-17360-082213-MR-153	82 UJ	ug/kg
					SO-17360-082213-MR-154	80 UJ	ug/kg
					SO-17360-082213-MR-155	92 UJ	ug/kg
					SO-17360-082213-MR-156	77 UJ	ug/kg
					SO-17360-082213-MR-157	92 UJ	ug/kg
					SO-17360-082213-MR-158	82 UJ	ug/kg
					SO-17360-082213-MR-159	80 UJ	ug/kg

Notes:

LCS - Laboratory control sample
 UJ - Not detected; associated reporting limit is estimated.
 TCL - Target compound list
 VOC - Volatile organic compounds

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
AUGUST 2013

Parameter	Sample ID	Analyte	MS		MSD		RPD (percent)	Control Limits		Qualified Sample ID	Qualified Result	Units
			% Recovery	% Recovery	% Recovery	% Recovery		% Recovery	RPD			
TCL VOCs	SO-017360-082113-MR-114	Fluoranthene	24.1	42.4	42.4	17	55-115	30	30	SO-017360-082113-MR-114	1100 J	ug/kg
TCL VOCs	SO-17360-082213-MR-153	Dibromochloromethane Bromomethane	60.4	63.4	63.4	4.93	65-135	30	30	SO-17360-082213-MR-153	82 UJ	ug/kg
			17.6	20	20	12.7	30-160	30	30	SO-17360-082213-MR-153	33 UJ	ug/kg
TCL VOCs	WG-17360-082113-EB-122	1,2-Dibromoethane	77.8	78.6	78.6	1.02	80-120	30	30	WG-17360-082113-EB-122	1.0 UJ	ug/L
TAL metals	SO-17360-082013-MR-082	Barium	140	138	138	21.02	75-125	35	35	SO-17360-082013-MR-067	56 J	mg/kg
										SO-17360-082013-MR-068	31 J	mg/kg
										SO-17360-082013-MR-069	23 J	mg/kg
										SO-17360-082013-MR-070	21 J	mg/kg
										SO-17360-082013-MR-071	35 J	mg/kg
										SO-17360-082013-MR-072	37 J	mg/kg
										SO-17360-082013-MR-073	44 J	mg/kg
										SO-17360-082013-MR-074	83 J	mg/kg
										SO-17360-082013-MR-075	120 J	mg/kg
										SO-17360-082013-MR-076	53 J	mg/kg
										SO-17360-082013-MR-077	41 J	mg/kg
										SO-17360-082013-MR-078	34 J	mg/kg
										SO-17360-082013-MR-079	21 J	mg/kg
										SO-17360-082013-MR-080	26 J	mg/kg
										SO-17360-082013-MR-081	21 J	mg/kg
										SO-17360-082013-MR-082	12 J	mg/kg
										SO-17360-082013-MR-084	11 J	mg/kg
										SO-17360-082013-MR-085	25 J	mg/kg
										SO-17360-082013-MR-086	36 J	mg/kg
										SO-17360-082013-MR-087	29 J	mg/kg
TAL metals	SO-17360-082013-MR-093	Barium	162	155	155	2.72	75-125	35	35	SO-17360-082013-MR-088	37 J	mg/kg
										SO-17360-082013-MR-089	19 J	mg/kg
										SO-17360-082013-MR-089 (246-13)	30 J	mg/kg
										SO-17360-082013-MR-090	14 J	mg/kg
										SO-17360-082013-MR-091	15 J	mg/kg
										SO-17360-082013-MR-092	13 J	mg/kg
										SO-17360-082013-MR-093	22 J	mg/kg

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
AUGUST 2013

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits		Qualified Sample ID	Qualified Result	Units
						% Recovery	RPD			
TAL metals (Continued)	SO-17360-082013-MR-093	Barium	162	155	2.72	75-125	35	SO-17360-082013-MR-094	32 J	mg/kg
								SO-17360-082013-MR-095	53 J	mg/kg
								SO-17360-082013-MR-096	22 J	mg/kg
TAL metals	SO-17360-082013-MR-093	Vanadium	142	152	2.15	75-125	35	SO-17360-082013-MR-088	11 J	mg/kg
								SO-17360-082013-MR-089	9.5 J	mg/kg
								SO-17360-082013-MR-089 (246-13)	8.0 J	mg/kg
								SO-17360-082013-MR-090	7.4 J	mg/kg
								SO-17360-082013-MR-091	7.3 J	mg/kg
								SO-17360-082013-MR-092	7.1 J	mg/kg
								SO-17360-082013-MR-093	8.9 J	mg/kg
								SO-17360-082013-MR-094	9.0 J	mg/kg
								SO-17360-082013-MR-095	14 J	mg/kg
								SO-17360-082013-MR-096	10 J	mg/kg
								SO-17360-082013-MR-097	0.10 J	mg/kg
TAL metals	SO-17360-082013-MR-106	Beryllium	70	69.2	0.475	75-125	35	SO-17360-082013-MR-098	0.12 J	mg/kg
								SO-17360-082013-MR-099	0.11 J	mg/kg
								SO-17360-082013-MR-100	0.099 J	mg/kg
								SO-17360-082013-MR-101	0.041 J	mg/kg
								SO-17360-082013-MR-102	0.045 J	mg/kg
								SO-17360-082013-MR-103	0.042 J	mg/kg
								SO-17360-082013-MR-104	0.048 J	mg/kg
								SO-17360-082013-MR-105	0.12 J	mg/kg
								SO-17360-082013-MR-106	0.097 J	mg/kg
								SO-17360-082013-MR-108	0.13 J	mg/kg
								SO-17360-082013-MR-109	0.14 J	mg/kg
								SO-17360-082013-MR-110	0.082 J	mg/kg
								SO-17360-082013-MR-111	0.086 J	mg/kg
								SO-17360-082013-MR-112	0.084 J	mg/kg
								SO-17360-082013-MR-106	450 J	ug/kg
								SO-17360-082013-MR-106	1800 J	ug/kg
								SO-17360-082013-MR-106	1200 J	ug/kg
								SO-17360-082013-MR-106	1600 J	ug/kg
PAHs	SO-17360-082013-MR-106	Benzo(k)fluoranthene	119	119	4.34	45-115	30	SO-17360-082013-MR-106	450 J	ug/kg
		Fluoranthene	131	137	5.09	55-115	30	SO-17360-082013-MR-106	1800 J	ug/kg
		Phenanthrene	123	129	6.12	50-110	30	SO-17360-082013-MR-106	1200 J	ug/kg
		Pyrene	126	127	3.26	45-125	30	SO-17360-082013-MR-106	1600 J	ug/kg

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
AUGUST 2013

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery RPD	Qualified Sample ID	Qualified Result	Units
TCL VOCs	SO-17360-082013-MR-106	Dibromochloromethane	57.6	60	3.99	65-135	SO-17360-082013-MR-106	61 UJ	ug/kg
		Bromomethane	16.1	14.5	10.5	30-160	SO-17360-082013-MR-106	150 UJ	ug/kg

Notes:

- MS - Matrix spike
- MSD - Matrix spike duplicate
- RPD - Relative percent difference
- UJ - Not detected; associated reporting limit is estimated
- J - Estimated concentration
- PAH - Polynuclear aromatic hydrocarbons
- TAL - Target analyte list
- TCL - Target compound list
- VOC - Volatile organic compounds

TABLE 6

QUALIFIED SAMPLE DATA DUE TO VARIABILITY IN FIELD DUPLICATE RESULTS
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
AUGUST 2013

<i>Parameter</i>	<i>Analyte</i>	<i>RPD/Diff</i>	<i>Sample ID</i>	<i>Qualified Result</i>	<i>Field Duplicate Sample ID</i>	<i>Qualified Result</i>	<i>Units</i>
TCL VOCs	Benzene	77 Diff	SO-17360-082013-MR-080	33 U	SO-17360-082013-MR-081	110 J	ug/kg
	Methyl cyclohexane	107 Diff	SO-17360-082013-MR-080	33 U	SO-17360-082013-MR-081	140 J	ug/kg
	Toluene	367 Diff	SO-17360-082013-MR-080	33 U	SO-17360-082013-MR-081	400 J	ug/kg
	Xylenes (total)	240 Diff	SO-17360-082013-MR-080	100 U	SO-17360-082013-MR-081	340 J	ug/kg
TCL VOCs	Trichloroethene	156 Diff	SO-17360-082013-MR-101	34 U	SO-17360-082013-MR-102	190 J	ug/kg
PAHs	Fluoranthene	105% RPD	SO-17360-082013-MR-110	2100 J	SO-17360-082013-MR-111	650 J	ug/kg
	Phenanthrene	135% RPD	SO-17360-082013-MR-110	1600 J	SO-17360-082013-MR-111	310 J	ug/kg
	Pyrene	103% RPD	SO-17360-082013-MR-110	1600 J	SO-17360-082013-MR-111	510 J	ug/kg
TAL metals	Cobalt	138% RPD	SO-17360-082113-MR-131	4.9 J	SO-17360-082113-MR-132	0.90 J	mg/kg

Notes:

Diff - Difference (i.e. >1X RL for waters or >2XRL for soils.)

RPD - Relative percent difference

J - Estimated concentration

U - Not detected at the associated reporting limit

PAH - Polynuclear aromatic hydrocarbons

TAL - Target analyte list

TCL - Target compound list

VOC - Volatile organic compounds