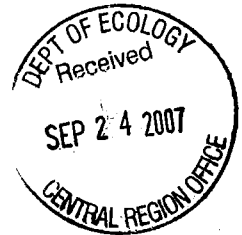


Manchester Environmental Laboratory

7411 Beach Dr E, Port Orchard, Washington 98366



Case Narrative

September 18, 2007

Subject: Metals Dow Road

Project No: 174807

Officer: Bob Swackhamer

By: Dean Momohara

DM

Summary

One of the samples for total nickel was qualified as an estimate due to continuing calibration problems. Several matrix spike recoveries were not calculated due to insufficient spike. One of the matrix spike recoveries for zinc and both matrix spike recoveries for antimony were biased low, resulting in both source samples being qualified. The laboratory control sample recovery for TCLP silver was low. Since the total silver in the sample was non detected, the TCLP silver sample was not re-extracted. No other problems were encountered in the analyses of these samples. All other sample results were reported without qualification.

All analyses requested were evaluated by established regulatory quality assurance guidelines.

Methods

The samples were analyzed and/or digested using the following methods: EPA 1311 for TCLP extraction, EPA method 7471 (CVAA) for the digestion and analysis of TCLP mercury (Hg), EPA 3010 for the digestion of TCLP metals, EPA 6010 for the analysis of TCLP metals, EPA method 245.5 (CVAA) for the digestion and analysis of Hg, EPA 3050 for the digestion of minerals and trace metals, EPA method 200.7 for the analysis of minerals, and EPA method 200.8 (ICPMS) for the analysis of trace metals.

Sample Information

Samples were received by Manchester Environmental Laboratory on 08/15/07. All coolers were received within the proper temperature range of 0°C - 6°C.

Washington State Department of Ecology
Manchester Environmental Laboratory
Project Statement

Project Name: Dow Road - 33

LIMS Project ID: 1748-07

Project Officer: Robert Swackhamer

Start Date: 08/15/07

Location: CRO

Due Date: 09/14/07

Program: TCP

Statement Date: 09/19/07

Samples:

Parameter	Matrix	Method	Lab	Qty	Unit Price	Extended Price
AG	40	EPA200.8	ECO	1	\$0	\$0
AL	40	EPA200.7	ECO	5	\$44	\$220
CA	40	EPA200.7	ECO	5	\$22	\$110
K	40	EPA200.7	ECO	5	\$20	\$100
MET-TCLP	40	1311-245.1	ECO	1	\$210	\$210
MG	40	EPA200.7	ECO	5	\$18	\$90
NA	40	EPA200.7	ECO	5	\$16	\$80
PPMETS	40	EPA200.8	ECO	5	\$175	\$875

Total QC Charges: \$1,360

Parameter	Matrix	Method	Lab	Qty	Unit Price	Extended Price
AL	40	EPA200.7	ECO	2	\$44	\$88
CA	40	EPA200.7	ECO	2	\$22	\$44
K	40	EPA200.7	ECO	2	\$20	\$40
MET-TCLP	40	1311-245.1	ECO	2	\$210	\$420
MG	40	EPA200.7	ECO	2	\$18	\$36
NA	40	EPA200.7	ECO	2	\$16	\$32
PPMETS	40	EPA200.8	ECO	4	\$175	\$700

Total Preparation Charges: \$ 75

Method	Type	Matrix	Samples	Rate	Total
SW1311-MT	LEACH	40	3	\$100	\$300

PIC	%	In House	Contract	Generals	Metals	Organics	Bioassay	Special	Total
J1G70	100	\$3,120	\$0	\$0	\$3,120	\$0	\$0	\$0	\$3,120
Totals:		\$3,120	\$0	\$0	\$3,120	\$0	\$0	\$0	\$3,120

Laboratory Control Samples

All laboratory control sample recoveries were within the acceptance limits of 85% - 115%.

Internal Standards

All internal standard recoveries were within acceptance limits of 60% - 125%.

Other Quality Assurance Measures and Issues

The laboratory control sample recovery for TCLP silver associated with sample 334021 was less than the lower acceptance limit. Since the total silver concentration in the sample was non detected, the silver concentration in the TCLP could not be greater than the TCLP limit and the sample for TCLP was not re extracted.

- U - The analyte was not detected at or above the reported result.
- J - The analyte was positively identified. The associated numerical result is an estimate.
- UJ - The analyte was not detected at or above the reported estimated result.
- NC - Not Calculated
- bold** - The analyte was present in the sample. (Visual Aid to locate detected compounds on report sheet.)

Please call Dean Momohara at (360) 871-8808 to further discuss this project.

cc: Project File

Washington State Department of Ecology
Manchester Environmental Laboratory
Analysis Report for
Potassium

Project Name: Dow Road - 33

LIMS Project ID: 1748-07

Project Officer: Robert Swackhamer

Method: EPA200.7

Date Reported: 09/12/07

Analyte: Potassium

Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
07334020		DR-1	Sediment/Soil	5410		mg/Kg dw	08/14/07	09/07/07
07334022		DR-3	Sediment/Soil	1640		mg/Kg dw	08/14/07	09/07/07
07334023		DR-4	Sediment/Soil	17300		mg/Kg dw	08/14/07	09/07/07
07334024		DR-5	Sediment/Soil	1610		mg/Kg dw	08/14/07	09/07/07
07334024	LMX1	(matrix spike)			NC	%	08/14/07	09/07/07
07334024	LMX2	(matrix spike)			NC	%	08/14/07	09/07/07
07334025		DR-7	Sediment/Soil	2990		mg/Kg dw	08/14/07	09/07/07
MB07233E1		Lab BLNK	Sediment/Soil	25	U	mg/Kg dw		09/07/07
ML07233E1		Lab LCS-	Sediment/Soil	105		%		09/07/07

Authorized By: Swackhamer

Release Date: 9/12/07

Washington State Department of Ecology
Manchester Environmental Laboratory
Analysis Report for
Calcium

Project Name: Dow Road - 33				LIMS Project ID: 1748-07				
Project Officer: Robert Swackhamer			Method: EPA200.7					
Date Reported: 09/17/07			Analyte: Calcium					
Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
07334020		DR-1	Sediment/Soil	4570		mg/Kg dw	08/14/07	09/07/07
07334022		DR-3	Sediment/Soil	4470		mg/Kg dw	08/14/07	09/07/07
07334023		DR-4	Sediment/Soil	3760		mg/Kg dw	08/14/07	09/07/07
07334024		DR-5	Sediment/Soil	3850		mg/Kg dw	08/14/07	09/07/07
07334024		LMX1 (matrix spike)			NC	%	08/14/07	09/07/07
07334024		LMX2 (matrix spike)			NC	%	08/14/07	09/07/07
07334025		DR-7	Sediment/Soil	8740		mg/Kg dw	08/14/07	09/07/07
MB07233E1		Lab BLNK	Sediment/Soil	2.5	U	mg/Kg dw		09/07/07
ML07233E1		Lab LCS-	Sediment/Soil	105		%		09/07/07

Authorized By: Jim Bennek

Release Date: 9/17/07

Washington State Department of Ecology
Manchester Environmental Laboratory
Analysis Report for
Magnesium

Project Name: Dow Road - 33

LIMS Project ID: 1748-07

Project Officer: Robert Swackhamer

Method: EPA200.7

Date Reported: 09/12/07

Analyte: Magnesium

Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
07334020		DR-1	Sediment/Soil	9810		mg/Kg dw	08/14/07	09/07/07
07334022		DR-3	Sediment/Soil	3650		mg/Kg dw	08/14/07	09/07/07
07334023		DR-4	Sediment/Soil	38100		mg/Kg dw	08/14/07	09/07/07
07334024		DR-5	Sediment/Soil	3560		mg/Kg dw	08/14/07	09/07/07
07334024		LMX1 (matrix spike)			NC	%	08/14/07	09/07/07
07334024		LMX2 (matrix spike)			NC	%	08/14/07	09/07/07
07334025		DR-7	Sediment/Soil	24800		mg/Kg dw	08/14/07	09/07/07
MB07233E1		Lab BLNK	Sediment/Soil	2.5	U	mg/Kg dw		09/07/07
ML07233E1		Lab LCS-	Sediment/Soil	103		%		09/07/07

Authorized By: *Swackhamer*

Release Date: 09/12/07

Washington State Department of Ecology
Manchester Environmental Laboratory
Analysis Report for
Sodium

Project Name: Dow Road - 33				LIMS Project ID: 1748-07				
Project Officer: Robert Swackhamer			Method: EPA200.7					
Date Reported: 09/12/07			Analyte: Sodium					
Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
07334020		DR-1	Sediment/Soil	8970		mg/Kg dw	08/14/07	09/07/07
07334022		DR-3	Sediment/Soil	382		mg/Kg dw	08/14/07	09/07/07
07334023		DR-4	Sediment/Soil	10400		mg/Kg dw	08/14/07	09/07/07
07334024		DR-5	Sediment/Soil	270		mg/Kg dw	08/14/07	09/07/07
07334024	LMX1	(matrix spike)			NC	%	08/14/07	09/07/07
07334024	LMX2	(matrix spike)			NC	%	08/14/07	09/07/07
07334025		DR-7	Sediment/Soil	3520		mg/Kg dw	08/14/07	09/07/07
MB07233E1		Lab BLNK	Sediment/Soil	2.5	U	mg/Kg dw		09/07/07
ML07233E1		Lab LCS-	Sediment/Soil	109		%		09/07/07

Authorized By: *Robert Swackhamer*

Release Date: 9/12/07

Washington State Department of Ecology
Manchester Environmental Laboratory
 Analysis Report for
Dow Road - 33

Sample: **07334021** Field ID: DR-2 Date Collected: 08/14/07 Project Officer: Robert Swackhamer LJMS Project ID: 1748-07

Analyte	Result	Qualifier	Method	Matrix	Unit	Dates		CAS	Parameter
						Prepare	Analysis		
Arsenic	0.050	U	1311-6010	Soil/Sediment - 40	mg/L	08/30/07	09/13/07	7440382	MT-TCLP
Arsenic	97			LMX1	%	08/30/07	09/13/07	7440382	MT-TCLP
Arsenic	101			LMX2	%	08/30/07	09/13/07	7440382	MT-TCLP
Barium	0.140		1311-6010	Soil/Sediment - 40	mg/L	08/30/07	09/13/07	7440393	MT-TCLP
Barium	90			LMX1	%	08/30/07	09/13/07	7440393	MT-TCLP
Barium	96			LMX2	%	08/30/07	09/13/07	7440393	MT-TCLP
Cadmium	0.0050	U	1311-6010	Soil/Sediment - 40	mg/L	08/30/07	09/13/07	7440439	MT-TCLP
Cadmium	89			LMX1	%	08/30/07	09/13/07	7440439	MT-TCLP
Cadmium	93			LMX2	%	08/30/07	09/13/07	7440439	MT-TCLP
Chromium	0.027		1311-6010	Soil/Sediment - 40	mg/L	08/30/07	09/13/07	7440473	MT-TCLP
Chromium	90			LMX1	%	08/30/07	09/13/07	7440473	MT-TCLP
Chromium	96			LMX2	%	08/30/07	09/13/07	7440473	MT-TCLP
Lead	0.050	U	1311-6010	Soil/Sediment - 40	mg/L	08/30/07	09/13/07	7439921	MT-TCLP
Lead	87			LMX1	%	08/30/07	09/13/07	7439921	MT-TCLP
Lead	91			LMX2	%	08/30/07	09/13/07	7439921	MT-TCLP
Selenium	0.050	U	1311-6010	Soil/Sediment - 40	mg/L	08/30/07	09/13/07	7782492	MT-TCLP
Selenium	99			LMX1	%	08/30/07	09/13/07	7782492	MT-TCLP
Selenium	103			LMX2	%	08/30/07	09/13/07	7782492	MT-TCLP
Silver	0.010	UJ	1311-6010	Soil/Sediment - 40	mg/L	08/30/07	09/13/07	7440224	MT-TCLP
Silver	35			LMX1	%	08/30/07	09/13/07	7440224	MT-TCLP
Silver	76			LMX2	%	08/30/07	09/13/07	7440224	MT-TCLP

Approved By: *[Signature]*

Date: 9/17/07

Washington State Department of Ecology
Manchester Environmental Laboratory
 Analysis Report for
Dow Road - 33

Lab ID: **MB07242E1** QC Type: Laboratory Method Blank Project Officer: Robert Swackhamer LIMS Project ID: 1748-07

Analyte	Result	Qualifier	Method	Matrix	Unit	Dates		CAS	Parameter
						Prepare	Analysis		
Arsenic	0.050	U	1311-6010	Soil/Sediment - 40	mg/L	08/30/07	09/13/07	7440382	MT-TCLP
Barium	0.10	U	1311-6010	Soil/Sediment - 40	mg/L	08/30/07	09/13/07	7440393	MT-TCLP
Cadmium	0.0050	U	1311-6010	Soil/Sediment - 40	mg/L	08/30/07	09/13/07	7440439	MT-TCLP
Chromium	0.0050	U	1311-6010	Soil/Sediment - 40	mg/L	08/30/07	09/13/07	7440473	MT-TCLP
Lead	0.050	U	1311-6010	Soil/Sediment - 40	mg/L	08/30/07	09/13/07	7439921	MT-TCLP
Selenium	0.050	U	1311-6010	Soil/Sediment - 40	mg/L	08/30/07	09/13/07	7782492	MT-TCLP
Silver	0.010	U	1311-6010	Soil/Sediment - 40	mg/L	08/30/07	09/13/07	7440224	MT-TCLP

Approved By: Sam S. Krich

Date: 9/17/07

Washington State Department of Ecology
Manchester Environmental Laboratory
 Analysis Report for
Dow Road - 33

Lab ID: **ML07242E1** QC Type: Laboratory Control Sample Project Officer: Robert Swackhamer LIMS Project ID: 1748-07

Analyte	Result	Qualifier	Method	Matrix	Unit	-----Dates-----		CAS	Parameter
						Prepare	Analysis		
Arsenic	104		1311-6010	Soil/Sediment - 40	%	08/30/07	09/13/07	7440382	MT-TCLP
Barium	104		1311-6010	Soil/Sediment - 40	%	08/30/07	09/13/07	7440393	MT-TCLP
Cadmium	101		1311-6010	Soil/Sediment - 40	%	08/30/07	09/13/07	7440439	MT-TCLP
Chromium	104		1311-6010	Soil/Sediment - 40	%	08/30/07	09/13/07	7440473	MT-TCLP
Lead	103		1311-6010	Soil/Sediment - 40	%	08/30/07	09/13/07	7439921	MT-TCLP
Selenium	104		1311-6010	Soil/Sediment - 40	%	08/30/07	09/13/07	7782492	MT-TCLP
Silver	68		1311-6010	Soil/Sediment - 40	%	08/30/07	09/13/07	7440224	MT-TCLP

Washington State Department of Ecology
Manchester Environmental Laboratory
Analysis Report for
Selenium

Project Name: Dow Road - 33

LIMS Project ID: 1748-07

Project Officer: Robert Swackhamer

Method: EPA200.8

Date Reported: 08/30/07

Analyte: Selenium

Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
07334020		DR-1	Sediment/Soil	0.50	U	mg/Kg dw	08/14/07	08/27/07
07334022		DR-3	Sediment/Soil	0.50	U	mg/Kg dw	08/14/07	08/27/07
07334023		DR-4	Sediment/Soil	0.50	U	mg/Kg dw	08/14/07	08/27/07
07334024		DR-5	Sediment/Soil	0.50	U	mg/Kg dw	08/14/07	08/27/07
07334024		LMX1 (matrix spike)		98		%	08/14/07	08/27/07
07334024		LMX2 (matrix spike)		95		%	08/14/07	08/27/07
07334025		DR-7	Sediment/Soil	0.50	U	mg/Kg dw	08/14/07	08/27/07
MB0723311		Lab BLNK	Sediment/Soil	0.50	U	mg/Kg dw		08/27/07
ML0723311		Lab LCS-	Sediment/Soil	109		%		08/27/07

Authorized By: *M. Jones*

Release Date: 8/30/07

Washington State Department of Ecology
Manchester Environmental Laboratory
Analysis Report for
Arsenic

Project Name: Dow Road - 33				LIMS Project ID: 1748-07				
Project Officer: Robert Swackhamer			Method: EPA200.8					
Date Reported: 08/30/07			Analyte: Arsenic					
Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
07334020		DR-1	Sediment/Soil	0.77		mg/Kg dw	08/14/07	08/27/07
07334022		DR-3	Sediment/Soil	1.8		mg/Kg dw	08/14/07	08/27/07
07334023		DR-4	Sediment/Soil	0.75		mg/Kg dw	08/14/07	08/27/07
07334024		DR-5	Sediment/Soil	1.6		mg/Kg dw	08/14/07	08/27/07
07334024		LMX1 (matrix spike)		96		%	08/14/07	08/27/07
07334024		LMX2 (matrix spike)		92		%	08/14/07	08/27/07
07334025		DR-7	Sediment/Soil	1.4		mg/Kg dw	08/14/07	08/27/07
MB0723311		Lab BLNK	Sediment/Soil	0.50	U	mg/Kg dw		08/27/07
ML0723311		Lab LCS-	Sediment/Soil	101		%		08/27/07

Authorized By: *M. Jan*

Release Date: 8/30/07

Washington State Department of Ecology
Manchester Environmental Laboratory
Analysis Report for
Chromium

Project Name: Dow Road - 33			LIMS Project ID: 1748-07					
Project Officer: Robert Swackhamer			Method: EPA200.8					
Date Reported: 09/06/07			Analyte: Chromium					
Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
07334020		DR-1	Sediment/Soil	40.6		mg/Kg dw	08/14/07	08/27/07
07334022		DR-3	Sediment/Soil	10.2		mg/Kg dw	08/14/07	08/27/07
07334023		DR-4	Sediment/Soil	166		mg/Kg dw	08/14/07	08/27/07
07334024		DR-5	Sediment/Soil	15.8		mg/Kg dw	08/14/07	09/06/07
07334024		LMX1 (matrix spike)		83		%	08/14/07	08/27/07
07334024		LMX2 (matrix spike)		91		%	08/14/07	08/27/07
07334025		DR-7	Sediment/Soil	134		mg/Kg dw	08/14/07	08/27/07
MB07233I1		Lab BLNK	Sediment/Soil	0.50	U	mg/Kg dw		08/27/07
ML07233I1		Lab LCS-	Sediment/Soil	94		%		08/27/07

Authorized By: M. Jam

Release Date: 9/6/07

Washington State Department of Ecology
Manchester Environmental Laboratory
Analysis Report for
Nickel

Project Name: Dow Road - 33

LIMS Project ID: 1748-07

Project Officer: Robert Swackhamer

Method: EPA200.8

Date Reported: 09/06/07

Analyte: Nickel

Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
07334020		DR-1	Sediment/Soil	15.5		mg/Kg dw	08/14/07	08/27/07
07334022		DR-3	Sediment/Soil	8.08		mg/Kg dw	08/14/07	08/27/07
07334023		DR-4	Sediment/Soil	10.1		mg/Kg dw	08/14/07	08/27/07
07334024		DR-5	Sediment/Soil	10.7	J	mg/Kg dw	08/14/07	09/06/07
07334024		LMX1 (matrix spike)		87		%	08/14/07	08/27/07
07334024		LMX2 (matrix spike)		95		%	08/14/07	08/27/07
07334025		DR-7	Sediment/Soil	10.6		mg/Kg dw	08/14/07	08/27/07
MB07233I1		Lab BLNK	Sediment/Soil	0.10	U	mg/Kg dw		08/27/07
ML07233I1		Lab LCS-	Sediment/Soil	95		%		08/27/07

Authorized By: *M. Jansen*

Release Date: 9/6/07

Washington State Department of Ecology
Manchester Environmental Laboratory
Analysis Report for
Copper

Project Name: Dow Road - 33				LIMS Project ID: 1748-07				
Project Officer: Robert Swackhamer			Method: EPA200.8					
Date Reported: 09/06/07			Analyte: Copper					
Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
07334020		DR-1	Sediment/Soil	1120		mg/Kg dw	08/14/07	08/27/07
07334022		DR-3	Sediment/Soil	8.77		mg/Kg dw	08/14/07	08/27/07
07334023		DR-4	Sediment/Soil	714		mg/Kg dw	08/14/07	08/27/07
07334024		DR-5	Sediment/Soil	11.2		mg/Kg dw	08/14/07	09/06/07
07334024		LMX1 (matrix spike)		95		%	08/14/07	08/27/07
07334024		LMX2 (matrix spike)		101		%	08/14/07	08/27/07
07334025		DR-7	Sediment/Soil	296		mg/Kg dw	08/14/07	08/27/07
MB07233I1		Lab BLNK	Sediment/Soil	0.10	U	mg/Kg dw		08/27/07
ML07233I1		Lab LCS-	Sediment/Soil	95		%		08/27/07

Authorized By: *M. Jones*

Release Date: 9/6/07

Washington State Department of Ecology
Manchester Environmental Laboratory
Analysis Report for
Zinc

Project Name: Dow Road - 33				LIMS Project ID: 1748-07				
Project Officer: Robert Swackhamer			Method: EPA200.8					
Date Reported: 09/06/07			Analyte: Zinc					
Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
07334020		DR-1	Sediment/Soil	140		mg/Kg dw	08/14/07	08/27/07
07334022		DR-3	Sediment/Soil	38		mg/Kg dw	08/14/07	08/27/07
07334023		DR-4	Sediment/Soil	380		mg/Kg dw	08/14/07	08/27/07
07334024		DR-5	Sediment/Soil	56.1	J	mg/Kg dw	08/14/07	09/06/07
07334024		LMX1 (matrix spike)		57		%	08/14/07	08/27/07
07334024		LMX2 (matrix spike)		75		%	08/14/07	08/27/07
07334025		DR-7	Sediment/Soil	360		mg/Kg dw	08/14/07	08/27/07
MB07233I1		Lab BLNK	Sediment/Soil	5.0	U	mg/Kg dw		08/27/07
ML07233I1		Lab LCS-	Sediment/Soil	103		%		08/27/07

Authorized By: *M. Jones*

Release Date: 9/6/07

Washington State Department of Ecology
Manchester Environmental Laboratory
Analysis Report for
Lead

Project Name: Dow Road - 33				LIMS Project ID: 1748-07				
Project Officer: Robert Swackhamer			Method: EPA200.8					
Date Reported: 09/06/07			Analyte: Lead					
Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
07334020		DR-1	Sediment/Soil	8.64		mg/Kg dw	08/14/07	08/27/07
07334022		DR-3	Sediment/Soil	4.3		mg/Kg dw	08/14/07	08/27/07
07334023		DR-4	Sediment/Soil	5.46		mg/Kg dw	08/14/07	08/27/07
07334024		DR-5	Sediment/Soil	4.06		mg/Kg dw	08/14/07	09/06/07
07334024		LMX1 (matrix spike)		88		%	08/14/07	08/27/07
07334024		LMX2 (matrix spike)		92		%	08/14/07	08/27/07
07334025		DR-7	Sediment/Soil	5.45		mg/Kg dw	08/14/07	08/27/07
MB07233I1		Lab BLNK	Sediment/Soil	0.10	U	mg/Kg dw		08/27/07
ML07233I1		Lab LCS-	Sediment/Soil	97		%		08/27/07

Authorized By: *M. Jones*

Release Date: 9/6/07

Washington State Department of Ecology
Manchester Environmental Laboratory
Analysis Report for
Silver

Project Name: Dow Road - 33				LIMS Project ID: 1748-07				
Project Officer: Robert Swackhamer			Method: EPA200.8					
Date Reported: 09/18/07			Analyte: Silver					
Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
07334020		DR-1	Sediment/Soil	0.10	U	mg/Kg dw	08/14/07	08/27/07
07334021		DR-2	Sediment/Soil	0.10	U	mg/Kg dw	08/14/07	08/27/07
07334022		DR-3	Sediment/Soil	0.10	U	mg/Kg dw	08/14/07	08/27/07
07334023		DR-4	Sediment/Soil	0.10	U	mg/Kg dw	08/14/07	08/27/07
07334024		DR-5	Sediment/Soil	0.10	U	mg/Kg dw	08/14/07	08/27/07
07334024		LMX1 (matrix spike)		95		%	08/14/07	08/27/07
07334024		LMX2 (matrix spike)		95		%	08/14/07	08/27/07
07334025		DR-7	Sediment/Soil	0.10	U	mg/Kg dw	08/14/07	08/27/07
MB0723311		Lab BLNK	Sediment/Soil	0.10	U	mg/Kg dw		08/27/07
ML0723311		Lab LCS-	Sediment/Soil	96		%		08/27/07

Authorized By: *M. Jones*

Release Date: 9/18/07

Washington State Department of Ecology
Manchester Environmental Laboratory
Analysis Report for
Thallium

Project Name: Dow Road - 33				LIMS Project ID: 1748-07				
Project Officer: Robert Swackhamer			Method: EPA200.8					
Date Reported: 08/29/07			Analyte: Thallium					
Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
07334020		DR-1	Sediment/Soil	0.16		mg/Kg dw	08/14/07	08/28/07
07334022		DR-3	Sediment/Soil	1.0	U	mg/Kg dw	08/14/07	08/28/07
07334023		DR-4	Sediment/Soil	0.10	U	mg/Kg dw	08/14/07	08/28/07
07334024		DR-5	Sediment/Soil	1.0	U	mg/Kg dw	08/14/07	08/28/07
07334024		LMX1 (matrix spike)		94		%	08/14/07	08/28/07
07334024		LMX2 (matrix spike)		94		%	08/14/07	08/28/07
07334025		DR-7	Sediment/Soil	0.10	U	mg/Kg dw	08/14/07	08/28/07
MB0723311		Lab BLNK	Sediment/Soil	0.10	U	mg/Kg dw		08/28/07
ML0723311		Lab LCS-	Sediment/Soil	100		%		08/28/07

Authorized By *M. Jam*

Release Date: 8/29/07

Washington State Department of Ecology
Manchester Environmental Laboratory
Analysis Report for
Beryllium

Project Name: Dow Road - 33				LIMS Project ID: 1748-07				
Project Officer: Robert Swackhamer			Method: EPA200.8					
Date Reported: 08/29/07			Analyte: Beryllium					
Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
07334020		DR-1	Sediment/Soil	1.3		mg/Kg dw	08/14/07	08/28/07
07334022		DR-3	Sediment/Soil	1.0	U	mg/Kg dw	08/14/07	08/28/07
07334023		DR-4	Sediment/Soil	8.7		mg/Kg dw	08/14/07	08/27/07
07334024		DR-5	Sediment/Soil	1.0	U	mg/Kg dw	08/14/07	08/28/07
07334024		LMX1 (matrix spike)		109		%	08/14/07	08/28/07
07334024		LMX2 (matrix spike)		107		%	08/14/07	08/28/07
07334025		DR-7	Sediment/Soil	5.1		mg/Kg dw	08/14/07	08/28/07
MB0723311		Lab BLNK	Sediment/Soil	0.10	U	mg/Kg dw		08/28/07
ML0723311		Lab LCS-	Sediment/Soil	95		%		08/28/07

Authorized By: *Mr. Jones*

Release Date: 8/29/07

Washington State Department of Ecology
Manchester Environmental Laboratory
Analysis Report for
Chromium

Project Name: Dow Road - 33				LIMS Project ID: 1748-07				
Project Officer: Robert Swackhamer			Method: EPA200.8					
Date Reported: 08/29/07			Analyte: Chromium					
Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
07334020		DR-1	Sediment/Soil	40.6		mg/Kg dw	08/14/07	08/27/07
07334022		DR-3	Sediment/Soil	10.2		mg/Kg dw	08/14/07	08/27/07
07334023		DR-4	Sediment/Soil	166		mg/Kg dw	08/14/07	08/27/07
07334024		DR-5	Sediment/Soil	12.0		mg/Kg dw	08/14/07	08/27/07
07334024		LMX1 (matrix spike)		102		%	08/14/07	08/27/07
07334024		LMX2 (matrix spike)		110		%	08/14/07	08/27/07
07334025		DR-7	Sediment/Soil	134		mg/Kg dw	08/14/07	08/27/07
MB0723311		Lab BLNK	Sediment/Soil	0.50	U	mg/Kg dw		08/27/07
ML0723311		Lab LCS-	Sediment/Soil	94		%		08/27/07

Authorized By: M. J. [Signature]

Release Date: 8/29/07

Washington State Department of Ecology
Manchester Environmental Laboratory
Analysis Report for
Copper

Project Name: Dow Road - 33	LIMS Project ID: 1748-07
Project Officer: Robert Swackhamer	Method: EPA200.8
Date Reported: 08/29/07	Analyte: Copper

Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
07334020		DR-1	Sediment/Soil	1120		mg/Kg dw	08/14/07	08/27/07
07334022		DR-3	Sediment/Soil	8.77		mg/Kg dw	08/14/07	08/27/07
07334023		DR-4	Sediment/Soil	714		mg/Kg dw	08/14/07	08/27/07
07334024		DR-5	Sediment/Soil	8.05		mg/Kg dw	08/14/07	08/27/07
07334024	LMX1 (matrix spike)			111		%	08/14/07	08/27/07
07334024	LMX2 (matrix spike)			116		%	08/14/07	08/27/07
07334025		DR-7	Sediment/Soil	296		mg/Kg dw	08/14/07	08/27/07
MB0723311		Lab BLNK	Sediment/Soil	0.10	U	mg/Kg dw		08/27/07
ML0723311		Lab LCS-	Sediment/Soil	95		%		08/27/07

Authorized By: *M. Jones*

Release Date: 8/29/07

Washington State Department of Ecology
Manchester Environmental Laboratory
Analysis Report for
Cadmium

Project Name: Dow Road - 33				LIMS Project ID: 1748-07				
Project Officer: Robert Swackhamer			Method: EPA200.8					
Date Reported: 08/29/07			Analyte: Cadmium					
Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
07334020		DR-1	Sediment/Soil	0.14		mg/Kg dw	08/14/07	08/27/07
07334022		DR-3	Sediment/Soil	0.11		mg/Kg dw	08/14/07	08/27/07
07334023		DR-4	Sediment/Soil	0.14		mg/Kg dw	08/14/07	08/27/07
07334024		DR-5	Sediment/Soil	0.11		mg/Kg dw	08/14/07	08/27/07
07334024		LMX1 (matrix spike)		105		%	08/14/07	08/27/07
07334024		LMX2 (matrix spike)		103		%	08/14/07	08/27/07
07334025		DR-7	Sediment/Soil	0.18		mg/Kg dw	08/14/07	08/27/07
MB0723311		Lab BLNK	Sediment/Soil	0.10	U	mg/Kg dw		08/27/07
ML0723311		Lab LCS-	Sediment/Soil	101		%		08/27/07

Authorized By: M. Jones

Release Date: 8/29/07

Washington State Department of Ecology
Manchester Environmental Laboratory
Analysis Report for
Antimony

Project Name: Dow Road - 33				LIMS Project ID: 1748-07				
Project Officer: Robert Swackhamer			Method: EPA200.8					
Date Reported: 08/29/07			Analyte: Antimony					
Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
07334020		DR-1	Sediment/Soil	0.20	U	mg/Kg dw	08/14/07	08/27/07
07334022		DR-3	Sediment/Soil	0.20	U	mg/Kg dw	08/14/07	08/27/07
07334023		DR-4	Sediment/Soil	0.20	U	mg/Kg dw	08/14/07	08/27/07
07334024		DR-5	Sediment/Soil	0.20	UJ	mg/Kg dw	08/14/07	08/27/07
07334024		LMX1 (matrix spike)		23		%	08/14/07	08/27/07
07334024		LMX2 (matrix spike)		21		%	08/14/07	08/27/07
07334025		DR-7	Sediment/Soil	0.20	U	mg/Kg dw	08/14/07	08/27/07
MB0723311		Lab BLNK	Sediment/Soil	0.20	U	mg/Kg dw		08/27/07
ML0723311		Lab LCS-	Sediment/Soil	97		%		08/27/07

Authorized By: *M. Jam*

Release Date: 8/29/07

Washington State Department of Ecology
Manchester Environmental Laboratory
Analysis Report for
Lead

Project Name: Dow Road - 33				LIMS Project ID: 1748-07				
Project Officer: Robert Swackhamer			Method: EPA200.8					
Date Reported: 08/29/07			Analyte: Lead					
Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
07334020		DR-1	Sediment/Soil	8.64		mg/Kg dw	08/14/07	08/27/07
07334022		DR-3	Sediment/Soil	4.3		mg/Kg dw	08/14/07	08/27/07
07334023		DR-4	Sediment/Soil	5.46		mg/Kg dw	08/14/07	08/27/07
07334024		DR-5	Sediment/Soil	2.60		mg/Kg dw	08/14/07	08/27/07
07334024		LMX1 (matrix spike)		96		%	08/14/07	08/27/07
07334024		LMX2 (matrix spike)		99		%	08/14/07	08/27/07
07334025		DR-7	Sediment/Soil	5.45		mg/Kg dw	08/14/07	08/27/07
MB07233I1		Lab BLNK	Sediment/Soil	0.10	U	mg/Kg dw		08/27/07
ML07233I1		Lab LCS-	Sediment/Soil	97		%		08/27/07

Authorized By: *M. Jovan*

Release Date: 8/29/07

Washington State Department of Ecology
Manchester Environmental Laboratory
Analysis Report for
Mercury

Project Name: Dow Road - 33

LIMS Project ID: 1748-07

Project Officer: Robert Swackhamer

Method: SW7471

Date Reported: 08/22/07

Analyte: Mercury

Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
07334020		DR-1	Sediment/Soil	0.0050	U	mg/Kg dw	08/14/07	08/21/07
07334022		DR-3	Sediment/Soil	0.0050	U	mg/Kg dw	08/14/07	08/21/07
07334023		DR-4	Sediment/Soil	0.0050	U	mg/Kg dw	08/14/07	08/21/07
07334024		DR-5	Sediment/Soil	0.0050	U	mg/Kg dw	08/14/07	08/21/07
07334025		DR-7	Sediment/Soil	0.0050	U	mg/Kg dw	08/14/07	08/21/07
07334025		LMX1 (matrix spike)		92		%	08/14/07	08/21/07
07334025		LMX2 (matrix spike)		93		%	08/14/07	08/21/07
MB07228H2		Lab BLNK	Sediment/Soil	0.0050	U	mg/Kg dw		08/21/07
ML07228H2		Lab LCS-	Sediment/Soil	99		%		08/21/07

Authorized By: Jan Johnson

Release Date: 8/22/07

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Washington State Department of Ecology
Manchester Environmental Laboratory
Analysis Report for
Mercury, TCLP

Project Name: Dow Road - 33				LIMS Project ID: 1748-07				
Project Officer: Robert Swackhamer			Method: 1311-245.1					
Date Reported: 09/13/07			Analyte: Mercury					
Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
07334021		DR-2	Sediment/Soil	0.050	U	ug/L	08/14/07	09/10/07
07334021		LMX1 (matrix spike)		98		%	08/14/07	09/10/07
07334021		LMX2 (matrix spike)		97		%	08/14/07	09/10/07
MB07248H1		Lab BLNK	Sediment/Soil	0.050	U	ug/L		09/10/07
ML07248H1		Lab LCS-	Sediment/Soil	92		%		09/10/07

Authorized By: *Robert Swackhamer*

Release Date: 9/13/07

Washington State Department of Ecology
Manchester Environmental Laboratory
Analysis Report for
Aluminum

Project Name: Dow Road - 33				LIMS Project ID: 1748-07				
Project Officer: Robert Swackhamer			Method: EPA200.7					
Date Reported: 09/13/07			Analyte: Aluminum					
Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
07334020		DR-1	Sediment/Soil	284000		mg/Kg dw	08/14/07	09/13/07
07334022		DR-3	Sediment/Soil	11600		mg/Kg dw	08/14/07	09/13/07
07334023		DR-4	Sediment/Soil	195000		mg/Kg dw	08/14/07	09/13/07
07334024		DR-5	Sediment/Soil	10700		mg/Kg dw	08/14/07	09/13/07
07334024		LMX1 (matrix spike)			NC	%	08/14/07	09/13/07
07334024		LMX2 (matrix spike)			NC	%	08/14/07	09/13/07
07334025		DR-7	Sediment/Soil	143000		mg/Kg dw	08/14/07	09/13/07
MB07254E1		Lab BLNK	Sediment/Soil	5.0	U	mg/Kg dw		09/13/07
ML07254E1		Lab LCS-	Sediment/Soil	108		%		09/13/07

Authorized By: Swackhamer

Release Date: 9/13/07