

# **Manchester Environmental Laboratory**

7411 Beach Dr E, Port Orchard, Washington 98366

## **Case Narrative**

**November 17, 2005**

**Subject:** Metals Maralco

**Project No:** 181705

**Officer:** Norm Peck

**By:** Dean Momohara  
DM

### **Summary**

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

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

### **Sample Information**

Samples were received by Manchester Environmental Laboratory on 11/02/05. All coolers were received at 18°C, above the proper temperature range of 0°C - 6°C. The samples were received in good condition. Four (4) samples were received and assigned laboratory identification numbers 444006 – 444009.

### **Holding Times**

All analyses were performed within established EPA holding times.

### **Calibration**

Instrument calibrations and calibration checks were performed in accordance with the appropriate method. All initial and continuing calibration checks were within control limits.

ICPMS and CVAA calibration correlation coefficients were within the acceptance range of 1.000 - 0.995. The instruments were calibrated with NIST traceable standards and verified to be in calibration with a second source NIST traceable standard. Soil drying oven temperatures were recorded before and after each analysis batch and were within acceptable limits.

#### **Method Blanks**

No analytically significant levels of analyte were detected in the method blanks associated with these samples.

#### **Matrix Spikes**

The matrix spike (MS) recoveries for nickel, copper, zinc, lead and chromium were not calculated. The standard spiking level was insufficient for the elevated concentration of analyte in the source sample and no action was taken.

The MS recoveries for antimony and beryllium were less than the lower acceptance limit, possibly due to matrix interference. The source sample results were qualified as estimates.

All other matrix spike recoveries were within the acceptance limits of 75% - 125%

#### **Replicates**

All duplicate relative percent differences were within the acceptance range of 0% - 20%.

#### **Laboratory Control Samples**

All laboratory control sample recoveries were within the acceptance limits of 85% - 115% for metals and 80% - 120% for Hg.

#### **Other Quality Assurance Measures and Issues**

All internal standard recoveries were within acceptance limits.

The samples were initially analyzed for priority pollutant metals. Since concentrations over the RCRW limit were observed for chromium (some samples had high levels of other RCRW metals) in all samples, the samples were TCLP extracted and analyzed. The concentration of mercury in the sample was less than the RCRW limit and the TCLP extracts were not analyzed for this metal.

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.

**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**  
**Beryllium**

Project Name: Maralco

LIMS Project ID: 1817-05

Project Officer: Norm Peck

Method: EPA200.8

Date Reported: 11/14/05

Analyte: Beryllium

Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
05444006		EB2D	Sediment/Soil	7.0		mg/Kg dw	10/19/05	11/09/05
05444007		EB7M	Sediment/Soil	0.77		mg/Kg dw	10/20/05	11/09/05
05444008		EB9M	Sediment/Soil	0.97	J	mg/Kg dw	10/20/05	11/09/05
05444008		LMX1 (matrix spike)		70		%	10/20/05	11/09/05
05444008		LMX2 (matrix spike)		70		%	10/20/05	11/09/05
05444009		EB16D	Sediment/Soil	1.60		mg/Kg dw	10/21/05	11/09/05
MB0531211		Lab BLNK	Sediment/Soil	0.10	U	mg/Kg dw		11/09/05
ML0531211		Lab LCS-	Sediment/Soil	104		%		11/09/05

Authorized By: *M. Jones*

Release Date: 11/14/05

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

**Project Name: Maralco**

**LIMS Project ID: 1817-05**

**Project Officer: Norm Peck**

**Method: EPA200.8**

**Date Reported: 11/14/05**

**Analyte: Nickel**

Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
05444006		EB2D	Sediment/Soil	31.9		mg/Kg dw	10/19/05	11/09/05
05444007		EB7M	Sediment/Soil	32.1		mg/Kg dw	10/20/05	11/09/05
05444008		EB9M	Sediment/Soil	29.4		mg/Kg dw	10/20/05	11/09/05
05444008		LMX1 (matrix spike)			NC	%	10/20/05	11/09/05
05444008		LMX2 (matrix spike)			NC	%	10/20/05	11/09/05
05444009		EB16D	Sediment/Soil	44.9		mg/Kg dw	10/21/05	11/09/05
MB05312I1		Lab BLNK	Sediment/Soil	0.10	U	mg/Kg dw		11/09/05
ML05312I1		Lab LCS-	Sediment/Soil	101		%		11/09/05

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Release Date: 11/14/05

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

Project Name: Maralco

LIMS Project ID: 1817-05

Project Officer: Norm Peck

Method: EPA200.8

Date Reported: 11/14/05

Analyte: Copper

Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
05444006		EB2D	Sediment/Soil	1330		mg/Kg dw	10/19/05	11/09/05
05444007		EB7M	Sediment/Soil	2110		mg/Kg dw	10/20/05	11/09/05
05444008		EB9M	Sediment/Soil	1150		mg/Kg dw	10/20/05	11/09/05
05444008		LMX1 (matrix spike)			NC	%	10/20/05	11/09/05
05444008		LMX2 (matrix spike)			NC	%	10/20/05	11/09/05
05444009		EB16D	Sediment/Soil	1330		mg/Kg dw	10/21/05	11/09/05
MB05312I1		Lab BLNK	Sediment/Soil	0.10	U	mg/Kg dw		11/09/05
ML05312I1		Lab LCS-	Sediment/Soil	101		%		11/09/05

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Release Date: 11/14/05

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

<b>Project Name: Maralco</b>				<b>LIMS Project ID: 1817-05</b>				
<b>Project Officer: Norm Peck</b>			<b>Method: EPA200.8</b>					
<b>Date Reported: 11/14/05</b>			<b>Analyte: Zinc</b>					
Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
05444006		EB2D	Sediment/Soil	920		mg/Kg dw	10/19/05	11/09/05
05444007		EB7M	Sediment/Soil	1300		mg/Kg dw	10/20/05	11/09/05
05444008		EB9M	Sediment/Soil	720		mg/Kg dw	10/20/05	11/09/05
05444008		LMX1 (matrix spike)			NC	%	10/20/05	11/09/05
05444008		LMX2 (matrix spike)			NC	%	10/20/05	11/09/05
05444009		EB16D	Sediment/Soil	900		mg/Kg dw	10/21/05	11/09/05
MB05312I1		Lab BLNK	Sediment/Soil	5.0	U	mg/Kg dw		11/09/05
ML05312I1		Lab LCS-	Sediment/Soil	110		%		11/09/05

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Release Date: 11/14/05

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

Project Name: Maralco

LIMS Project ID: 1817-05

Project Officer: Norm Peck

Method: EPA200.8

Date Reported: 11/14/05

Analyte: Arsenic

Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
05444006		EB2D	Sediment/Soil	0.86		mg/Kg dw	10/19/05	11/09/05
05444007		EB7M	Sediment/Soil	1.92		mg/Kg dw	10/20/05	11/09/05
05444008		EB9M	Sediment/Soil	2.18		mg/Kg dw	10/20/05	11/09/05
05444008		LMX1 (matrix spike)		83		%	10/20/05	11/09/05
05444008		LMX2 (matrix spike)		88		%	10/20/05	11/09/05
05444009		EB16D	Sediment/Soil	3.84		mg/Kg dw	10/21/05	11/09/05
MB05312I1		Lab BLNK	Sediment/Soil	0.10	U	mg/Kg dw		11/09/05
ML05312I1		Lab LCS-	Sediment/Soil	104		%		11/09/05

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Release Date: 11/14/05

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

<b>Project Name: Maralco</b>				<b>LIMS Project ID: 1817-05</b>				
<b>Project Officer: Norm Peck</b>			<b>Method: EPA200.8</b>					
<b>Date Reported: 11/14/05</b>			<b>Analyte: Selenium</b>					
Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
05444006		EB2D	Sediment/Soil	0.50	U	mg/Kg dw	10/19/05	11/09/05
05444007		EB7M	Sediment/Soil	0.74		mg/Kg dw	10/20/05	11/09/05
05444008		EB9M	Sediment/Soil	0.60		mg/Kg dw	10/20/05	11/09/05
05444008		LMX1 (matrix spike)		75		%	10/20/05	11/09/05
05444008		LMX2 (matrix spike)		79		%	10/20/05	11/09/05
05444009		EB16D	Sediment/Soil	0.59		mg/Kg dw	10/21/05	11/09/05
MB05312I1		Lab BLNK	Sediment/Soil	0.50	U	mg/Kg dw		11/09/05
ML05312I1		Lab LCS-	Sediment/Soil	110		%		11/09/05

Authorized By: *M. Jones*

Release Date: 11/14/05

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

Project Name: Maralco

LIMS Project ID: 1817-05

Project Officer: Norm Peck

Method: EPA200.8

Date Reported: 11/14/05

Analyte: Silver

Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
05444006		EB2D	Sediment/Soil	0.90		mg/Kg dw	10/19/05	11/09/05
05444007		EB7M	Sediment/Soil	0.55		mg/Kg dw	10/20/05	11/09/05
05444008		EB9M	Sediment/Soil	0.70		mg/Kg dw	10/20/05	11/09/05
05444008		LMX1 (matrix spike)		83		%	10/20/05	11/09/05
05444008		LMX2 (matrix spike)		83		%	10/20/05	11/09/05
05444009		EB16D	Sediment/Soil	0.31		mg/Kg dw	10/21/05	11/09/05
MB05312I1		Lab BLNK	Sediment/Soil	0.10	U	mg/Kg dw		11/09/05
ML05312I1		Lab LCS-	Sediment/Soil	99		%		11/09/05

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Release Date: 11/14/05

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

<b>Project Name: Maralco</b>				<b>LIMS Project ID: 1817-05</b>				
<b>Project Officer: Norm Peck</b>				<b>Method: EPA200.8</b>				
<b>Date Reported: 11/14/05</b>				<b>Analyte: Cadmium</b>				
Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
05444006		EB2D	Sediment/Soil	0.72		mg/Kg dw	10/19/05	11/09/05
05444007		EB7M	Sediment/Soil	0.73		mg/Kg dw	10/20/05	11/09/05
05444008		EB9M	Sediment/Soil	0.87		mg/Kg dw	10/20/05	11/09/05
05444008		LMX1 (matrix spike)		84		%	10/20/05	11/09/05
05444008		LMX2 (matrix spike)		85		%	10/20/05	11/09/05
05444009		EB16D	Sediment/Soil	1.37		mg/Kg dw	10/21/05	11/09/05
MB05312I1		Lab BLNK	Sediment/Soil	0.10	U	mg/Kg dw		11/09/05
ML05312I1		Lab LCS-	Sediment/Soil	102		%		11/09/05

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Release Date: 11/14/05

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

Project Name: Maralco

LIMS Project ID: 1817-05

Project Officer: Norm Peck

Method: EPA200.8

Date Reported: 11/14/05

Analyte: Antimony

Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
05444006		EB2D	Sediment/Soil	3.33		mg/Kg dw	10/19/05	11/09/05
05444007		EB7M	Sediment/Soil	2.47		mg/Kg dw	10/20/05	11/09/05
05444008		EB9M	Sediment/Soil	2.11	J	mg/Kg dw	10/20/05	11/09/05
05444008		LMX1 (matrix spike)		27		%	10/20/05	11/09/05
05444008		LMX2 (matrix spike)		28		%	10/20/05	11/09/05
05444009		EB16D	Sediment/Soil	2.74		mg/Kg dw	10/21/05	11/09/05
MB05312I1		Lab BLNK	Sediment/Soil	0.20	U	mg/Kg dw		11/09/05
ML05312I1		Lab LCS-	Sediment/Soil	94		%		11/09/05

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Release Date: 11/14/05

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

**Project Name: Maralco**

**LIMS Project ID: 1817-05**

**Project Officer: Norm Peck**

**Method: EPA200.8**

**Date Reported: 11/14/05**

**Analyte: Thallium**

Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
05444006		EB2D	Sediment/Soil	0.10	U	mg/Kg dw	10/19/05	11/09/05
05444007		EB7M	Sediment/Soil	0.10	U	mg/Kg dw	10/20/05	11/09/05
05444008		EB9M	Sediment/Soil	0.10	U	mg/Kg dw	10/20/05	11/09/05
<b>05444008</b>		LMX1 (matrix spike)		<b>90</b>		%	10/20/05	11/09/05
<b>05444008</b>		LMX2 (matrix spike)		<b>92</b>		%	10/20/05	11/09/05
05444009		EB16D	Sediment/Soil	0.10	U	mg/Kg dw	10/21/05	11/09/05
MB05312I1		Lab BLNK	Sediment/Soil	0.10	U	mg/Kg dw		11/09/05
ML05312I1		Lab LCS-	Sediment/Soil	<b>98</b>		%		11/09/05

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Release Date: 11/14/05

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

Project Name: Maralco

LIMS Project ID: 1817-05

Project Officer: Norm Peck

Method: EPA200.8

Date Reported: 11/14/05

Analyte: Lead

Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
05444006		EB2D	Sediment/Soil	116		mg/Kg dw	10/19/05	11/09/05
05444007		EB7M	Sediment/Soil	73.3		mg/Kg dw	10/20/05	11/09/05
05444008		EB9M	Sediment/Soil	82.4		mg/Kg dw	10/20/05	11/09/05
05444008		LMX1 (matrix spike)			NC	%	10/20/05	11/09/05
05444008		LMX2 (matrix spike)			NC	%	10/20/05	11/09/05
05444009		EB16D	Sediment/Soil	89.1		mg/Kg dw	10/21/05	11/09/05
MB05312I1		Lab BLNK	Sediment/Soil	0.10	U	mg/Kg dw		11/09/05
ML05312I1		Lab LCS-	Sediment/Soil	100		%		11/09/05

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Release Date: 11/14/05

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

**Project Name:** Maralco

**LIMS Project ID:** 1817-05

**Project Officer:** Norm Peck

**Method:** EPA200.8

**Date Reported:** 11/14/05

**Analyte:** Chromium

Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
05444006		EB2D	Sediment/Soil	172		mg/Kg dw	10/19/05	11/10/05
05444007		EB7M	Sediment/Soil	106		mg/Kg dw	10/20/05	11/10/05
05444008		EB9M	Sediment/Soil	113		mg/Kg dw	10/20/05	11/10/05
05444008		LMX1 (matrix spike)			NC	%	10/20/05	11/10/05
05444008		LMX2 (matrix spike)			NC	%	10/20/05	11/10/05
05444009		EB16D	Sediment/Soil	117		mg/Kg dw	10/21/05	11/10/05
MB05312I1		Lab BLNK	Sediment/Soil	0.50	U	mg/Kg dw		11/10/05
ML05312I1		Lab LCS-	Sediment/Soil	104		%		11/10/05

Authorized By: M. Jones

Release Date: 11/14/05

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**Washington State Department of Ecology**  
**Manchester Environmental Laboratory**  
**Analysis Report for**  
**TCLP metals for ICP analysis**

Project Name: Maralco

LIMS Project ID: 1817-05

Sample: 05444006

Date Collected: 10/19/05

Method: 1311-6010

Field ID: EB2D

Date Prepared: 11/15/05

Matrix: Sediment/Soil

Project Officer: Norm Peck

Date Analyzed: 11/16/05

Units: mg/L

Analyte	Result	Qualifier
Arsenic	0.050	U
Barium	0.13	
Cadmium	0.0050	U
Chromium	0.0520	
Lead	0.050	U
Selenium	0.050	U
Silver	0.010	U

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Release Date: 11/17/05

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**Washington State Department of Ecology**  
**Manchester Environmental Laboratory**  
**Analysis Report for**  
**TCLP metals for ICP analysis**

<b>Project Name:</b> Maralco	<b>Date Collected:</b> 10/20/05	<b>LIMS Project ID:</b> 1817-05
<b>Sample:</b> 05444007	<b>Date Prepared:</b> 11/15/05	<b>Method:</b> 1311-6010
<b>Field ID:</b> EB7M	<b>Date Analyzed:</b> 11/16/05	<b>Matrix:</b> Sediment/Soil
<b>Project Officer:</b> Norm Peck		<b>Units:</b> mg/L

Analyte	Result	Qualifier
Arsenic	0.050	U
Barium	0.47	
Cadmium	0.0056	
Chromium	0.049	
Lead	0.050	U
Selenium	0.050	U
Silver	0.010	U

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Release Date: \_\_\_\_\_ *11/17/05*

Washington State Department of Ecology  
Manchester Environmental Laboratory  
Analysis Report for  
TCLP metals for ICP analysis

Project Name: Maralco

LIMS Project ID: 1817-05

Sample: 05444008

Date Collected: 10/20/05

Method: 1311-6010

Field ID: EB9M

Date Prepared: 11/15/05

Matrix: Sediment/Soil

Project Officer: Norm Peck

Date Analyzed: 11/16/05

Units: mg/L

Analyte	Result	Qualifier
Arsenic	0.050	U
Barium	0.49	
Cadmium	0.0085	
Chromium	0.036	
Lead	0.050	U
Selenium	0.050	U
Silver	0.010	U

Authorized By: am

Release Date: 11/16/05

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**Washington State Department of Ecology**  
**Manchester Environmental Laboratory**  
**Analysis Report for**  
**TCLP metals for ICP analysis**

**Project Name:** Maralco

**LIMS Project ID:** 1817-05

**Sample:** 05444009

**Date Collected:** 10/21/05

**Method:** 1311-6010

**Field ID:** EB16D

**Date Prepared:** 11/15/05

**Matrix:** Sediment/Soil

**Project Officer:** Norm Peck

**Date Analyzed:** 11/16/05

**Units:** mg/L

Analyte	Result	Qualifier
Arsenic	0.050	U
Barium	0.33	
Cadmium	0.0084	
Chromium	0.0641	
Lead	0.050	U
Selenium	0.050	U
Silver	0.010	U

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Release Date: 11/17/05

**Washington State Department of Ecology**  
**Manchester Environmental Laboratory**  
**Analysis Report for**  
**TCLP metals for ICP analysis**

Project Name: Maralco

LIMS Project ID: 1817-05

Lab ID: MB05319E1

Method: 1311-6010

QC Type: Laboratory Method Blank

Date Prepared: 11/15/05

Matrix: Sediment/Soil

Project Officer: Norm Peck

Date Analyzed: 11/16/05

Units: mg/L

Analyte	Result	Qualifier
Arsenic	0.050	U
Barium	0.10	U
Cadmium	0.0050	U
Chromium	0.0050	U
Lead	0.050	U
Selenium	0.050	U
Silver	0.010	U

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**Washington State Department of Ecology**  
**Manchester Environmental Laboratory**  
**Analysis Report for**  
**TCLP metals for ICP analysis**

**Project Name:** Maralco

**LIMS Project ID:** 1817-05

**Sample:** 05444009 (matrix spike - LMX1)

**Date Collected:** 10/21/05

**Method:** 1311-6010

**Field ID:** EB16D

**Date Prepared:** 11/15/05

**Matrix:** Sediment/Soil

**Project Officer:** Norm Peck

**Date Analyzed:** 11/16/05

**Units:** % Recovery

Analyte	Result	Qualifier
Arsenic	106	
Barium	98	
Cadmium	110	
Chromium	96	
Lead	112	
Selenium	109	
Silver	102	

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**Washington State Department of Ecology**  
**Manchester Environmental Laboratory**  
**Analysis Report for**  
**TCLP metals for ICP analysis**

Project Name: Maralco

LIMS Project ID: 1817-05

Sample: 05444009 (matrix spike - LMX2)

Date Collected: 10/21/05

Method: 1311-6010

Field ID: EB16D

Date Prepared: 11/15/05

Matrix: Sediment/Soil

Project Officer: Norm Peck

Date Analyzed: 11/16/05

Units: % Recovery

Analyte	Result	Qualifier
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Arsenic	110	
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Barium	100	
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Cadmium	114	
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Chromium	97	
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Lead	116	
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Selenium	113	
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Silver	100	
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Release Date: 11/16/05

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**Washington State Department of Ecology**  
**Manchester Environmental Laboratory**  
**Analysis Report for**  
**TCLP metals for ICP analysis**

**Project Name:** Maralco

**LIMS Project ID:** 1817-05

**Lab ID:** ML05319E1

**Method:** 1311-6010

**QC Type:** Laboratory Control Sample

**Date Prepared:** 11/15/05

**Matrix:** Sediment/Soil

**Project Officer:** Norm Peck

**Date Analyzed:** 11/16/05

**Units:** %

<b>Analyte</b>	<b>Result</b>	<b>Qualifier</b>
Arsenic	101	
Barium	98	
Cadmium	100	
Chromium	103	
Lead	99	
Selenium	101	
Silver	102	

Authorized By: Norm Peck

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

Project Name: Maralco

LIMS Project ID: 1817-05

Project Officer: Norm Peck

Method: EPA245.5

Date Reported: 11/15/05

Analyte: Mercury

Sample	QC	Field ID	Matrix	Result	Qualifier	Units	Collected	Analyzed
05444006		EB2D	Sediment/Soil	0.060		mg/Kg dw	10/19/05	11/15/05
05444007		EB7M	Sediment/Soil	0.0060		mg/Kg dw	10/20/05	11/15/05
05444008		EB9M	Sediment/Soil	0.0050	U	mg/Kg dw	10/20/05	11/15/05
05444009		EB16D	Sediment/Soil	0.013		mg/Kg dw	10/21/05	11/15/05
05444009		LMX1 (matrix spike)		115		%	10/21/05	11/15/05
05444009		LMX2 (matrix spike)		112		%	10/21/05	11/15/05
MB05318H1		Lab BLNK	Sediment/Soil	0.0050	U	mg/Kg dw		11/15/05
ML05318H1		Lab LCS-	Sediment/Soil	99		%		11/15/05

Authorized By: Shirley Peck

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