

Memo



1501 4th Avenue, Suite 1400
Seattle, Washington 98101
206.438.2700 Telephone
206.438.2699 Fax

To: Vance Atkins, QA/QC Manager **Info:** DRAFT

From: Jennifer Garner, Chemist **Date:** November 28, 2005

Summary Data Quality Review
Maralco Restoration Project
Kent, Washington
October 2005

The summary data quality review of 44 discrete dross samples and 7 composite dross samples collected between October 19 and 21, 2005 has been completed. The samples were analyzed at North Creek Analytical (NCA) laboratories located in Bothell and Spokane, Washington for total metals (copper, nickel, potassium, sodium, and zinc) by EPA Methods 6010B and 6020, Toxic Characteristics Leaching Procedure (TCLP) metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) by EPA Methods 1311, 6010B, and 7470A, ammonia by EPA Method 350.3, chloride by EPA Method 300.0, total cyanide by EPA Method 9010B-modified, ignitability by EPA Method 1010, pH by EPA Method 9045C, and/or total sulfide by EPA Method 9030B as described below. The analyses were performed in general accordance with methods specified in EPA's *Test Methods for Evaluating Solid Waste (SW-846), Update IIIB*, April 1998 and *Methods for Chemical Analysis of Water and Wastes*, March 1983. The laboratory provided a summary report containing sample results and associated QA/QC data for all samples. The following samples are associated with NCA sample delivery groups (SDGs) B5J0381, B5J0426, and B5J0465:

Sample ID	NCA ID	Requested Analyses
B-1-S	B5J0381-01	Total Metals, TCLP Metals, Ammonia, Chloride
B-1-D	B5J0381-02	Total Metals, TCLP Metals, Ammonia, Chloride
B-2-S	B5J0381-03	Total Metals, TCLP Metals, Ammonia, Chloride
B-2-D	B5J0381-04	Total Metals, TCLP Metals, Ammonia, Chloride
B-3-S	B5J0381-05	Total Metals, TCLP Metals, Ammonia, Chloride
B-3-D	B5J0381-06	Total Metals, TCLP Metals, Ammonia, Chloride
B-4-S	B5J0381-07	Total Metals, TCLP Metals, Ammonia, Chloride
B-4-M	B5J0381-08	Total Metals, TCLP Metals, Ammonia, Chloride
B-4-D	B5J0381-09	Total Metals, TCLP Metals, Ammonia, Chloride
B-5-S	B5J0381-10	Total Metals, TCLP Metals, Ammonia, Chloride
B-5-D	B5J0381-11	Total Metals, TCLP Metals, Ammonia, Chloride
B-8-S	B5J0381-12	Total Metals, TCLP Metals, Ammonia, Chloride
B-8-M	B5J0381-13	Total Metals, TCLP Metals, Ammonia, Chloride
Sample ID	NCA ID	Requested Analyses

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B-8-D	B5J0381-14	Total Metals, TCLP Metals, Ammonia, Chloride
COMP-1	B5J0381-15	Total Cyanide, Ignitability, pH, Total Sulfide
COMP-2	B5J0381-16	Total Cyanide, Ignitability, pH, Total Sulfide
B-19-S (Field Duplicate of B-1-S)	B5J0381-17	Total Metals, TCLP Metals, Ammonia, Chloride
B-20-S (Field Duplicate of B-7-M)	B5J0426-01	Total Metals, TCLP Metals, Ammonia, Chloride
B-7-S	B5J0426-02	Total Metals, TCLP Metals, Ammonia, Chloride
B-7-M	B5J0426-03	Total Metals, TCLP Metals, Ammonia, Chloride
B-7-D	B5J0426-04	Total Metals, TCLP Metals, Ammonia, Chloride
B-6-S	B5J0426-05	Total Metals, TCLP Metals, Ammonia, Chloride
B-6-M	B5J0426-06	Total Metals, TCLP Metals, Ammonia, Chloride
B-9-S	B5J0426-07	Total Metals, TCLP Metals, Ammonia, Chloride
B-9-M	B5J0426-08	Total Metals, TCLP Metals, Ammonia, Chloride
B-10-S	B5J0426-09	Total Metals, TCLP Metals, Ammonia, Chloride
B-10-M	B5J0426-10	Total Metals, TCLP Metals, Ammonia, Chloride
COMP-3	B5J0426-11	Total Cyanide, Ignitability, pH, Total Sulfide
B-11-S	B5J0426-12	Total Metals, TCLP Metals, Ammonia, Chloride
B-11-M	B5J0426-13	Total Metals, TCLP Metals, Ammonia, Chloride
COMP-4	B5J0426-14	Total Cyanide, Ignitability, pH, Total Sulfide
COMP-5	B5J0426-15	Total Cyanide, Ignitability, pH, Total Sulfide
B-12-S	B5J0465-01	Total Metals, TCLP Metals, Ammonia, Chloride
B-12-M	B5J0465-02	Total Metals, TCLP Metals, Ammonia, Chloride
B-12-D	B5J0465-03	Total Metals, TCLP Metals, Ammonia, Chloride
B-13-S	B5J0465-04	Total Metals, TCLP Metals, Ammonia, Chloride
B-13-D	B5J0465-05	Total Metals, TCLP Metals, Ammonia, Chloride
B-14-S	B5J0465-06	Total Metals, TCLP Metals, Ammonia, Chloride
B-14-D	B5J0465-07	Total Metals, TCLP Metals, Ammonia, Chloride
B-15-S	B5J0465-08	Total Metals, TCLP Metals, Ammonia, Chloride
B-15-D	B5J0465-09	Total Metals, TCLP Metals, Ammonia, Chloride
B-18-S	B5J0465-10	Total Metals, TCLP Metals, Ammonia, Chloride
B-17-S	B5J0465-11	Total Metals, TCLP Metals, Ammonia, Chloride
B-17-M	B5J0465-12	Total Metals, TCLP Metals, Ammonia, Chloride
B-17-D	B5J0465-13	Total Metals, TCLP Metals, Ammonia, Chloride
B-16-S	B5J0465-14	Total Metals, TCLP Metals, Ammonia, Chloride
B-16-M	B5J0465-15	Total Metals, TCLP Metals, Ammonia, Chloride
B-16-D	B5J0465-16	Total Metals, TCLP Metals, Ammonia, Chloride
B-21-S (Field Duplicate of B-15-D)	B5J0465-17	Total Metals, TCLP Metals, Ammonia, Chloride
COMP-6	B5J0465-18	Total Cyanide, Ignitability, pH, Total Sulfide
COMP-7	B5J0465-19	Total Cyanide, Ignitability, pH, Total Sulfide

Upon receipt by NCA-Bothell, the sample jar information was compared to the chain-of-custody. No discrepancies relating to sample identification were noted by NCA-Bothell. The cooler temperatures associated with these samples exceeded the EPA-recommended limits of $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$ at 16.0°C , and 9.5°C . A cooler temperature was not recorded for samples associated with SDG B5J0465. Data were not qualified based on cooler temperatures. Samples for ignitability analysis were shipped to NCA-Spokane.

Upon receipt by NCA-Spokane, the sample jar information was compared to the chain-of-custody. No discrepancies relating to sample identification were noted by NCA-Spokane and the cooler temperatures were within the EPA-recommended limits of $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$.

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Kent, Washington
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Data validation is based on method performance criteria and QC criteria documented in the *Sampling and Analysis Plan/Quality Assurance Project Plan (Study Plan), Maralco Restoration Project, 7730 South 202nd Street, Kent, Washington*, dated September 2005. Hold times, field and method blanks, matrix spike/matrix spike duplicate recoveries, laboratory duplicate results, blank spike recoveries (laboratory control samples), and reporting limits were reviewed to assess compliance with applicable methods and criteria documented in the Study Plan. If data qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in the EPA document *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Inorganic Data Review*, July 2002. A summary of qualifiers assigned to results in this SDG is included in Table 1. Qualifiers that may be assigned to results in this SDG include:

- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Metals Analyses

Samples were analyzed for total metals and TCLP metals by the methods described in the introduction to this report.

1. Holding Times – Acceptable
2. Blanks – Acceptable except as noted below:

Total Metals by Methods 6010B and 6020 – Potassium (39.4 mg/kg) was detected in the method blank associated with samples B-15-D, B-18-S, B-17-S, B-17-M, B-17-D, B-16-S, B-16-M, B-16-D, and B-21-S. Per CLP guidelines, analytes detected in samples that are also detected in blanks are qualified if the sample concentration is less than ten times (10x) the blank concentration. The concentrations for potassium in the samples described above were more than 10x the method blank concentration; therefore, data were not qualified based on the method blank result.

3. Laboratory Control/Laboratory Control Duplicate Samples (LCS/LCSD) – Acceptable

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4. Matrix Spike / Matrix Spike Duplicates (MS/MSD) – Acceptable except as noted below:

Total Metals by Methods 6010B and 6020 – A MS/MSD and post-digestion spike (PDS) were performed on sample B-3-S. The percent recoveries for one or more metals were outside the control limits specified in the Study Plan of 80-120% as indicated below:

Analyte	<u>MS</u> % Recovery	<u>MSD</u> % Recovery	<u>PDS</u> % Recovery	RPD
Copper	16.1%	-32.2%	139%	OK
Zinc	209%	OK	69%	OK
Potassium	288%	274%	70%	OK
Sodium	213%	368%	64%	OK

OK – Result Acceptable

RPD – Relative Percent Difference

The native sample concentrations for copper, zinc, potassium, and sodium in sample B-3-S were more than four times (4x) the spike concentration; therefore, data were not qualified for copper, zinc, potassium, and sodium based on these MS/MSD/PDS results.

A MS/MSD/PDS was performed on sample B-10-S. The percent recoveries for one or more metals were outside the control limits specified in the Study Plan as indicated below:

Analyte	<u>MS</u> % Recovery	<u>MSD</u> % Recovery	<u>PDS</u> % Recovery	RPD
Nickel	73.1%	OK	OK	OK
Copper	-213%	-21.3%	OK	OK
Zinc	-61.8%	64.0%	OK	OK

The native sample concentrations for copper and zinc in sample B-10-S were more than four times (4x) the spike concentration; therefore, data were not qualified for copper and zinc based on these MS/MSD/PDS results. As the percent recoveries in the MSD and PDS and the RPD were acceptable, data were not qualified for nickel based on the percent recovery in the MS.

A MS/MSD/PDS was performed on sample B-20-S. The percent recoveries for one or more metals and/or the RPD were outside the control limits specified in the Study Plan as indicated below:

Analyte	<u>MS</u> % Recovery	<u>MSD</u> % Recovery	<u>PDS</u> % Recovery	RPD
Potassium	-3480%	1870%	-700%	22.5%
Sodium	-1040%	2730%	400%	OK

The native sample concentrations for potassium and sodium in sample B-20-S were more than four times (4x) the spike concentration; therefore, data were not qualified for potassium and sodium based on these MS/MSD/PDS results.

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A MS/MSD/PDS was performed on sample B-18-S. The percent recoveries for one or more metals were outside the control limits specified in the Study Plan as indicated below:

Analyte	MS % Recovery	MSD % Recovery	PDS % Recovery	RPD
Copper	213%	178%	267%	OK
Zinc	888%	782%	440%	OK
Potassium	797%	549%	40%	OK
Sodium	536%	278%	64%	OK

The native sample concentrations for copper, zinc, potassium, and sodium in sample B-18-S were more than four times (4x) the spike concentration; therefore, data were not qualified for copper, zinc, potassium, and sodium based on these MS/MSD/PDS results.

A MS/MSD was performed on a sample from an unrelated project. The percent recovery for zinc (128%) exceeded the control limits specified in the Study Plan. Data were not qualified based on non-project QA/QC.

TCLP Metals by Methods 1311/6010B/7470A – MS/MSDs were performed on samples B-3-S, B-4-S, B-18-S, B-20-S, and B-12-S. Results were acceptable.

5. Field Duplicates – Acceptable except as noted below:

General – Field duplicates were collected for B-1-S, B-7-M, and B-15-D and identified as B-19-S, B-20-S, and B-21-S, respectively. Results were comparable except as noted in the following paragraphs.

Total Metals by Methods 6010B and 6020 – The RPDs for nickel (80%), copper (87%), and zinc (96%) in the parent sample /field duplicate pair B-1-S / B-19-S were more than 35%. The results for nickel, copper, and zinc in samples B-1-S and B-19-S are qualified as estimated and flagged with a 'J' based on the field duplicate results.

The RPDs for copper (60%) and zinc (36%) in the parent sample /field duplicate pair B-7-M / B-20-S were more than 35%. The results for copper and zinc in samples B-7-M and B-20-S are qualified as estimated and flagged with a 'J' based on the field duplicate results.

The RPD for zinc (43%) in the parent sample /field duplicate pair B-15-D / B-21-S was more than 35%. The results for zinc in samples B-15-D and B-21-S are qualified as estimated and flagged with a 'J' based on the field duplicate results.

6. Reporting Limits – Acceptable except as noted below:

TCLP Metals by Methods 1311/6010B/7470A – The reporting limits for arsenic, chromium, mercury, lead, and selenium exceeded the reporting limits specified in the Study Plan. The elevated reporting limits are below Washington State Dangerous Waste Characterization Criteria and do not affect the use of the data for regulatory comparison.

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General Chemistry Parameters

Samples were analyzed for ammonia, chloride, total cyanide, ignitability, pH, and total sulfide by the methods described in the introduction to this report.

1. Holding Times – Acceptable except as noted below:

pH by Method 9045C – Samples COMP-1, COMP-2, COMP-6, and COMP-7 were analyzed between 1 and 3 days past the one day holding time. The results for pH in samples COMP-1, COMP-2, COMP-6, and COMP-7 are qualified as estimated and flagged with a 'J' based on the holding time exceedance.

2. Blanks – Acceptable where applicable
3. Laboratory Control/Laboratory Control Duplicate Samples (LCS/LCSD) – Acceptable where applicable
4. Matrix Spike / Matrix Spike Duplicates (MS/MSD) – Acceptable where applicable except as noted below:

Ammonia by Method 350.3 – A MS was performed on sample B-3-S. A MS/MSD was performed on sample B-18-S. Results were acceptable.

A MS/MSD was performed on sample B-10-S. The percent recoveries for ammonia in the MS (89.9%) and MSD (88.4%) were below the control limits of 90-110%. The results for ammonia in samples B-20-S, B-7-S, B-7-M, B-7-D, B-6-S, B-6-M, B-9-S, B-9-M, B-10-S, B-10-M, B-11-S, B-11-M, B-12-S, B-12-M, B-12-D, B-13-S, B-13-D, B-14-S, B-14-D, and B-15-S are qualified as estimated and flagged with a 'J' or 'UJ' based on the MS/MSD results.

Chloride by Method 300.0 – A MS/MSD was performed on sample B-3-S. The percent recovery for chloride in the MS (126%) exceeded the control limits of 90-110%. As the percent recovery in the MSD and the RPD was acceptable, data were not qualified based on the MS result.

A MS/MSD was performed on sample B-10-S. The percent recoveries for chloride in the MS (81,900%) and MSD (21,500%) exceeded the control limits. The native sample concentration for chloride in sample B-10-S was more than four times (4x) the spike concentration; therefore, data were not qualified for chloride based on the MS/MSD results.

A MS/MSD was performed on sample B-18-S. The percent recovery for chloride in the MSD (164%) exceeded the control limits. As the percent recovery in the MS and the RPD was acceptable, data were not qualified based on the MS result.

Total Cyanide by Method 9010B-modified – A MS was performed on sample COMP-1. Results were acceptable.

Total Sulfide by Method 9030B – Matrix spikes were performed on samples COMP-1 and COMP-7. Results were acceptable.

5. Laboratory Duplicates – Acceptable where applicable except as noted below:

Ammonia by Method 350.3 – A laboratory duplicate was performed on sample B-3-S. Results were acceptable.

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Total Cyanide by Method 9010B-modified – A laboratory duplicate was performed on sample COMP-1. Results were acceptable.

Ignitability by Method 1030 – A laboratory duplicate was performed on a sample from an unrelated project. Results were acceptable.

pH by Method 9045C – Laboratory duplicates were performed on COMP-1, COMP-3, COMP-6, and COMP-7. Results were acceptable.

Total Sulfide by Method 9030B – A laboratory duplicate was performed on sample COMP-1. Results were acceptable.

A laboratory duplicate was performed on sample COMP-7. The RPD for sulfide (34.8%) exceeded the control limit of 30%. The native sample concentration for sulfide was less than two times (2x) the reporting limit; therefore, data were not qualified based on the laboratory duplicate.

6. Field Duplicates – Acceptable where applicable except as noted below:

General – Field duplicates were collected for B-1-S, B-7-M, and B-15-D and identified as B-19-S, B-20-S, and B-21-S, respectively. Results were comparable except as noted in the following paragraphs.

Chloride by Method 300.0 – The RPD for chloride in the parent sample / field duplicate pair B-1-S / B-19-S was not calculable. The results for chloride in samples B-1-S and B-19-S are qualified as estimated and flagged with a 'J' or 'UJ' based on the field duplicate results.

6. Reporting Limits – Acceptable except as noted below:

General – The reporting limits for one or more general chemistry parameters exceeded the reporting limits specified in the Study Plan due to the percent moisture content of the samples.

Overall Assessment of Data

The completeness for SDGs B5J0381, B5J0426, and B5J0465 is 100%. The usefulness of this data is based on USEPA guidance documents listed in the introduction to this report. Upon consideration of the information presented above, the data are acceptable except where flagged with data qualifiers that modify the usefulness of the individual values.

Table 1 – Summary of Qualified Data

Sample ID	NCA ID	Analyte	Result	Units	Qualifier
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Kent, Washington
October 2005

B-1-S	B5J0381-01	Total Nickel Total Copper Total Zinc Chloride	48.2 2,180 3,520 5.81 U	mg/kg mg/kg mg/kg mg/kg	J J J UJ
COMP-1	B5J0381-15	pH	9.31	Standard Units	J
COMP-2	B5J0381-16	pH	8.81	Standard Units	J
B-19-S	B5J0381-17	Total Nickel Total Copper Total Zinc Chloride	60.6 1,870 1,500 209	mg/kg mg/kg mg/kg mg/kg	J J J J
B-20-S	B5J0426-01	Total Copper Total Zinc Ammonia	2,460 1,000 336	mg/kg mg/kg mg/kg	J J J
B-7-S	B5J0426-02	Ammonia	261	mg/kg	J
B-7-M	B5J0426-03	Total Copper Total Zinc Ammonia	1,320 696 449	mg/kg mg/kg mg/kg	J J J
B-7-D	B5J0426-04	Ammonia	276	mg/kg	J
B-6-S	B5J0426-05	Ammonia	88.3	mg/kg	J
B-6-M	B5J0426-06	Ammonia	280	mg/kg	J
B-9-S	B5J0426-07	Ammonia	223	mg/kg	J
B-9-M	B5J0426-08	Ammonia	300	mg/kg	J
B-10-S	B5J0426-09	Ammonia	104	mg/kg	J
B-10-M	B5J0426-10	Ammonia	107	mg/kg	J
B-11-S	B5J0426-12	Ammonia	7.04 U	mg/kg	UJ
B-11-M	B5J0426-13	Ammonia	54.3	mg/kg	J
B-12-S	B5J0465-01	Ammonia	6.44 U	mg/kg	UJ
B-12-M	B5J0465-02	Ammonia	138	mg/kg	J
B-12-D	B5J0465-03	Ammonia	243	mg/kg	J
B-13-S	B5J0465-04	Ammonia	142	mg/kg	J
B-13-D	B5J0465-05	Ammonia	309	mg/kg	J
B-14-S	B5J0465-06	Ammonia	129	mg/kg	J
B-14-D	B5J0465-07	Ammonia	325	mg/kg	J
B-15-S	B5J0465-08	Ammonia	216	mg/kg	J
B-15-D	B5J0465-09	Total Zinc	1,200	mg/kg	J
B-21-S	B5J0465-17	Total Zinc	1,850	mg/kg	J
COMP-6	B5J0465-18	pH	9.25	Standard Units	J
COMP-7	B5J0465-19	pH	9.08	Standard Units	J



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9200 fax 425.420.9210
Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 17:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B - 20 - S	BSJ0426-01	Soil	10/20/05 08:30	10/20/05 18:10
B - 7 - S	BSJ0426-02	Soil	10/20/05 09:00	10/20/05 18:10
B - 7 - M	BSJ0426-03	Soil	10/20/05 09:30	10/20/05 18:10
B - 7 - D	BSJ0426-04	Soil	10/20/05 10:00	10/20/05 18:10
B - 6 - S	BSJ0426-05	Soil	10/20/05 10:35	10/20/05 18:10
B - 6 - M	BSJ0426-06	Soil	10/20/05 10:50	10/20/05 18:10
B - 9 - S	BSJ0426-07	Soil	10/20/05 13:00	10/20/05 18:10
B - 9 - M	BSJ0426-08	Soil	10/20/05 13:20	10/20/05 18:10
B - 10 - S	BSJ0426-09	Soil	10/20/05 14:10	10/20/05 18:10
B - 10 - M	BSJ0426-10	Soil	10/20/05 14:30	10/20/05 18:10
COMP - 3	BSJ0426-11	Soil	10/20/05 15:25	10/20/05 18:10
B - 11 - S	BSJ0426-12	Soil	10/20/05 15:00	10/20/05 18:10
B - 11 - M	BSJ0426-13	Soil	10/20/05 15:20	10/20/05 18:10
COMP - 4	BSJ0426-14	Soil	10/20/05 16:30	10/20/05 18:10
COMP - 5	BSJ0426-15	Soil	10/20/05 16:15	10/20/05 18:10

North Creek Analytical - Bothell

Jeff Gerdes, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
 11/14/05 17:07

Total Metals by EPA 6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B - 20 - S (BSJ0426-01) Soil Sampled: 10/20/05 08:30 Received: 10/20/05 18:10									
Nickel	24.7	0.682	mg/kg dry	1	SJ26067	10/26/05	11/01/05	EPA 6020	
B - 20 - S (BSJ0426-01RE1) Soil Sampled: 10/20/05 08:30 Received: 10/20/05 18:10									
Copper	2460	13.6	mg/kg dry	20	SJ26067	10/26/05	11/06/05	EPA 6020	
Potassium	142000	1760	"	100	SK08027	11/08/05	11/12/05	EPA 6010B	
Sodium	108000	1760	"	"	"	"	"	"	
Zinc	1060	136	"	20	SJ26067	10/26/05	11/06/05	EPA 6020	
B - 7 - S (BSJ0426-02) Soil Sampled: 10/20/05 09:00 Received: 10/20/05 18:10									
Nickel	26.7	0.648	mg/kg dry	1	SJ26067	10/26/05	11/01/05	EPA 6020	
B - 7 - S (BSJ0426-02RE1) Soil Sampled: 10/20/05 09:00 Received: 10/20/05 18:10									
Copper	864	6.48	mg/kg dry	10	SJ26067	10/26/05	11/06/05	EPA 6020	
Potassium	120000	1850	"	100	SK08027	11/08/05	11/12/05	EPA 6010B	
Sodium	74900	1850	"	"	"	"	"	"	
Zinc	609	64.8	"	10	SJ26067	10/26/05	11/06/05	EPA 6020	
B - 7 - M (BSJ0426-03) Soil Sampled: 10/20/05 09:30 Received: 10/20/05 18:10									
Nickel	27.1	0.605	mg/kg dry	1	SJ26067	10/26/05	11/01/05	EPA 6020	
B - 7 - M (BSJ0426-03RE1) Soil Sampled: 10/20/05 09:30 Received: 10/20/05 18:10									
Copper	1320	6.05	mg/kg dry	10	SJ26067	10/26/05	11/06/05	EPA 6020	
Potassium	140000	1710	"	100	SK08027	11/08/05	11/12/05	EPA 6010B	
Sodium	101000	1710	"	"	"	"	"	"	
Zinc	696	60.5	"	10	SJ26067	10/26/05	11/06/05	EPA 6020	

11/15/05
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Jeff Gerdes, Project Manager



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
11/14/05 17:07

Total Metals by EPA 6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B - 7 - D (B5J0426-04) Soil Sampled: 10/20/05 10:00 Received: 10/20/05 18:10									
Nickel	16.8	0.647	mg/kg dry	1	SJ26067	10/26/05	11/01/05	EPA 6020	
B - 7 - D (B5J0426-04RE1) Soil Sampled: 10/20/05 10:00 Received: 10/20/05 18:10									
Copper	535	3.24	mg/kg dry	5	SJ26067	10/26/05	11/06/05	EPA 6020	
Potassium	123000	1670	"	100	SK08027	11/08/05	11/12/05	EPA 6010B	
Sodium	116000	1670	"	"	"	"	"	"	
Zinc	524	32.4	"	5	SJ26067	10/26/05	11/06/05	EPA 6020	
B - 6 - S (BSJ0426-05) Soil Sampled: 10/20/05 10:35 Received: 10/20/05 18:10									
Nickel	37.8	0.644	mg/kg dry	1	SJ26067	10/26/05	11/01/05	EPA 6020	
B - 6 - S (BSJ0426-05RE1) Soil Sampled: 10/20/05 10:35 Received: 10/20/05 18:10									
Copper	797	3.22	mg/kg dry	5	SJ26067	10/26/05	11/01/05	EPA 6020	
Potassium	112000	1820	"	100	SK08027	11/08/05	11/12/05	EPA 6010B	
Sodium	119000	1820	"	"	"	"	"	"	
Zinc	865	32.2	"	5	SJ26067	10/26/05	11/01/05	EPA 6020	
B - 6 - M (BSJ0426-06) Soil Sampled: 10/20/05 10:50 Received: 10/20/05 18:10									
Nickel	32.5	0.517	mg/kg dry	1	SJ26068	10/26/05	11/01/05	EPA 6020	
B - 6 - M (BSJ0426-06RE1) Soil Sampled: 10/20/05 10:50 Received: 10/20/05 18:10									
Copper	1160	5.17	mg/kg dry	10	SJ26068	10/26/05	11/08/05	EPA 6020	
Potassium	108000	1880	"	100	SK08027	11/08/05	11/12/05	EPA 6010B	
Sodium	81300	1880	"	"	"	"	"	"	
Zinc	780	51.7	"	10	SJ26068	10/26/05	11/08/05	EPA 6020	

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9717 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
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Total Metals by EPA 6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B - 9 - S (B5J0426-07) Soil Sampled: 10/20/05 13:00 Received: 10/20/05 18:10									
Nickel	37.8	0.619	mg/kg dry	1	5J26068	10/26/05	11/01/05	EPA 6020	
B - 9 - S (B5J0426-07RE1) Soil Sampled: 10/20/05 13:00 Received: 10/20/05 18:10									
Copper	1200	6.19	mg/kg dry	10	5J26068	10/26/05	11/08/05	EPA 6020	
Potassium	67500	1750	"	100	5K08027	11/08/05	11/12/05	EPA 6010B	
Sodium	75000	1750	"	"	"	"	"	"	
Zinc	761	61.9	"	10	5J26068	10/26/05	11/08/05	EPA 6020	
B - 9 - M (B5J0426-08) Soil Sampled: 10/20/05 13:20 Received: 10/20/05 18:10									
Nickel	33.3	0.640	mg/kg dry	1	5J26068	10/26/05	11/01/05	EPA 6020	
B - 9 - M (B5J0426-08RE1) Soil Sampled: 10/20/05 13:20 Received: 10/20/05 18:10									
Copper	876	6.40	mg/kg dry	10	5J26068	10/26/05	11/08/05	EPA 6020	
Potassium	125000	1820	"	100	5K08027	11/08/05	11/12/05	EPA 6010B	
Sodium	108000	1820	"	"	"	"	"	"	
Zinc	589	64.0	"	10	5J26068	10/26/05	11/08/05	EPA 6020	
B - 10 - S (B5J0426-09) Soil Sampled: 10/20/05 14:10 Received: 10/20/05 18:10									
Nickel	47.5	0.586	mg/kg dry	1	5J26068	10/26/05	11/01/05	EPA 6020	
B - 10 - S (B5J0426-09RE1) Soil Sampled: 10/20/05 14:10 Received: 10/20/05 18:10									
Copper	1270	5.86	mg/kg dry	10	5J26068	10/26/05	11/08/05	EPA 6020	
Potassium	117000	1850	"	100	5K08027	11/08/05	11/12/05	EPA 6010B	
Sodium	86700	1850	"	"	"	"	"	"	
Zinc	931	58.6	"	10	5J26068	10/26/05	11/08/05	EPA 6020	

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 425.420.9200 fax 425.420.9210
Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
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Total Metals by EPA 6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
B - 10 - M (BSJ0426-10) Soil Sampled: 10/20/05 14:30 Received: 10/20/05 18:10									
Nickel	22.4	0.536	mg/kg dry	1	SJ26068	10/26/05	11/01/05	EPA 6020	
B - 10 - M (BSJ0426-10RE1) Soil Sampled: 10/20/05 14:30 Received: 10/20/05 18:10									
Copper	428	2.68	mg/kg dry	5	SJ26068	10/26/05	11/08/05	EPA 6020	
Potassium	110000	1690	"	100	SK08027	11/08/05	11/12/05	EPA 6010B	
Sodium	97000	1690	"	"	"	"	"	"	
Zinc	356	26.8	"	5	SJ26068	10/26/05	11/08/05	EPA 6020	
B - 11 - S (BSJ0426-12) Soil Sampled: 10/20/05 15:00 Received: 10/20/05 18:10									
Nickel	98.1	0.806	mg/kg dry	1	SJ26068	10/26/05	11/01/05	EPA 6020	
B - 11 - S (BSJ0426-12RE1) Soil Sampled: 10/20/05 15:00 Received: 10/20/05 18:10									
Copper	3030	16.1	mg/kg dry	20	SJ26068	10/26/05	11/08/05	EPA 6020	
Potassium	23700	2310	"	100	SK08027	11/08/05	11/12/05	EPA 6010B	
Sodium	16400	2310	"	"	"	"	"	"	
Zinc	3040	161	"	20	SJ26068	10/26/05	11/08/05	EPA 6020	
B - 11 - M (BSJ0426-13) Soil Sampled: 10/20/05 15:20 Received: 10/20/05 18:10									
Nickel	36.1	0.593	mg/kg dry	1	SJ26068	10/26/05	11/01/05	EPA 6020	
B - 11 - M (BSJ0426-13RE1) Soil Sampled: 10/20/05 15:20 Received: 10/20/05 18:10									
Copper	1270	5.93	mg/kg dry	10	SJ26068	10/26/05	11/08/05	EPA 6020	
Potassium	86900	1880	"	100	SK08027	11/08/05	11/12/05	EPA 6010B	
Sodium	62900	1880	"	"	"	"	"	"	
Zinc	1200	59.3	"	10	SJ26068	10/26/05	11/08/05	EPA 6020	

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.293.9210 fax 541.292.7588
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
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TCLP Metals by EPA 1311/6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B - 20 - S (B5J0426-01) Soil Sampled: 10/20/05 08:30 Received: 10/20/05 18:10									
Mercury	ND	0.00250	mg/l	1	5K01063	11/01/05	11/02/05	EPA 7470A	
B - 20 - S (B5J0426-01RE1) Soil Sampled: 10/20/05 08:30 Received: 10/20/05 18:10									
Silver	ND	0.0500	mg/l	1	5K03041	11/03/05	11/04/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	11/01/05	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	0.109	0.100	"	"	"	"	"	"	"
Lead	ND	0.100	"	"	"	"	"	"	"
Selenium	ND	0.100	"	"	"	"	"	"	"
B - 7 - S (B5J0426-02) Soil Sampled: 10/20/05 09:00 Received: 10/20/05 18:10									
Mercury	ND	0.00250	mg/l	1	5K01063	11/01/05	11/02/05	EPA 7470A	
B - 7 - S (B5J0426-02RE1) Soil Sampled: 10/20/05 09:00 Received: 10/20/05 18:10									
Silver	ND	0.0500	mg/l	1	5K03041	11/03/05	11/04/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	11/01/05	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Lead	ND	0.100	"	"	"	"	"	"	"
Selenium	ND	0.100	"	"	"	"	"	"	"
B - 7 - M (B5J0426-03) Soil Sampled: 10/20/05 09:30 Received: 10/20/05 18:10									
Mercury	ND	0.00250	mg/l	1	5K01063	11/01/05	11/02/05	EPA 7470A	

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 425.420.9200 fax 425.420.9210
Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 17:07

TCLP Metals by EPA 1311/6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B - 7 - M (B5J0426-03RE1) Soil Sampled: 10/20/05 09:30 Received: 10/20/05 18:10									
Silver	ND	0.0500	mg/l	1	5K03041	11/03/05	11/04/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	11/01/05	"	"	
Barium	ND	1.00	"	"	"	"	"	"	
Cadmium	ND	0.0500	"	"	"	"	"	"	
Chromium	0.115	0.100	"	"	"	"	"	"	
Lead	ND	0.100	"	"	"	"	"	"	
Selenium	ND	0.100	"	"	"	"	"	"	
B - 7 - D (B5J0426-04) Soil Sampled: 10/20/05 10:00 Received: 10/20/05 18:10									
Mercury	ND	0.00250	mg/l	1	5K01063	11/01/05	11/02/05	EPA 7470A	
B - 7 - D (B5J0426-04RE1) Soil Sampled: 10/20/05 10:00 Received: 10/20/05 18:10									
Silver	ND	0.0500	mg/l	1	5K03041	11/03/05	11/04/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	11/01/05	"	"	
Barium	ND	1.00	"	"	"	"	"	"	
Cadmium	ND	0.0500	"	"	"	"	"	"	
Chromium	ND	0.100	"	"	"	"	"	"	
Lead	ND	0.100	"	"	"	"	"	"	
Selenium	ND	0.100	"	"	"	"	"	"	
B - 6 - S (B5J0426-05) Soil Sampled: 10/20/05 10:35 Received: 10/20/05 18:10									
Mercury	ND	0.00250	mg/l	1	5K01063	11/01/05	11/02/05	EPA 7470A	
B - 6 - S (B5J0426-05RE1) Soil Sampled: 10/20/05 10:35 Received: 10/20/05 18:10									
Silver	ND	0.0500	mg/l	1	5K03041	11/03/05	11/04/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	11/01/05	"	"	
Barium	ND	1.00	"	"	"	"	"	"	
Cadmium	ND	0.0500	"	"	"	"	"	"	
Chromium	ND	0.100	"	"	"	"	"	"	
Lead	ND	0.100	"	"	"	"	"	"	
Selenium	ND	0.100	"	"	"	"	"	"	

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9299
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.382.9310 fax 541.382.7588
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
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Reported:
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TCLP Metals by EPA 1311/6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B - 6 - M (BSJ0426-06) Soil Sampled: 10/20/05 10:50 Received: 10/20/05 18:10									
Mercury	ND	0.00250	mg/l	1	5K01063	11/01/05	11/02/05	EPA 7470A	
B - 6 - M (BSJ0426-06RE1) Soil Sampled: 10/20/05 10:50 Received: 10/20/05 18:10									
Silver	ND	0.0500	mg/l	1	5K03041	11/03/05	11/04/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	11/01/05	"	"	
Barium	ND	1.00	"	"	"	"	"	"	
Cadmium	ND	0.0500	"	"	"	"	"	"	
Chromium	ND	0.100	"	"	"	"	"	"	
Lead	ND	0.100	"	"	"	"	"	"	
Selenium	ND	0.100	"	"	"	"	"	"	
B - 9 - S (BSJ0426-07) Soil Sampled: 10/20/05 13:00 Received: 10/20/05 18:10									
Mercury	ND	0.00250	mg/l	1	5K01063	11/01/05	11/02/05	EPA 7470A	
B - 9 - S (BSJ0426-07RE1) Soil Sampled: 10/20/05 13:00 Received: 10/20/05 18:10									
Silver	ND	0.0500	mg/l	1	5K03041	11/03/05	11/04/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	11/01/05	"	"	
Barium	ND	1.00	"	"	"	"	"	"	
Cadmium	ND	0.0500	"	"	"	"	"	"	
Chromium	ND	0.100	"	"	"	"	"	"	
Lead	ND	0.100	"	"	"	"	"	"	
Selenium	ND	0.100	"	"	"	"	"	"	
B - 9 - M (BSJ0426-08) Soil Sampled: 10/20/05 13:20 Received: 10/20/05 18:10									
Mercury	ND	0.00250	mg/l	1	5K01063	11/01/05	11/02/05	EPA 7470A	

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URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9200 fax 425.420.9210
Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
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TCLP Metals by EPA 1311/6000/7000 Series Methods

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B - 9 - M (B5J0426-08RE1) Soil Sampled: 10/20/05 13:20 Received: 10/20/05 18:10									
Silver	ND	0.0500	mg/l	1	SK03041	11/03/05	11/04/05	EPA 6010B	"
Arsenic	ND	0.100	"	"	"	11/01/05	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Lead	ND	0.100	"	"	"	"	"	"	"
Selenium	ND	0.100	"	"	"	"	"	"	"
B - 10 - S (B5J0426-09) Soil Sampled: 10/20/05 14:10 Received: 10/20/05 18:10									
Mercury	ND	0.00250	mg/l	1	SK01063	11/01/05	11/02/05	EPA 7470A	"
B - 10 - S (B5J0426-09RE1) Soil Sampled: 10/20/05 14:10 Received: 10/20/05 18:10									
Silver	ND	0.0500	mg/l	1	SK03041	11/03/05	11/04/05	EPA 6010B	"
Arsenic	ND	0.100	"	"	"	11/01/05	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Lead	ND	0.100	"	"	"	"	"	"	"
Selenium	ND	0.100	"	"	"	"	"	"	"
B - 10 - M (B5J0426-10) Soil Sampled: 10/20/05 14:30 Received: 10/20/05 18:10									
Mercury	ND	0.00250	mg/l	1	SK01063	11/01/05	11/02/05	EPA 7470A	"
B - 10 - M (B5J0426-10RE1) Soil Sampled: 10/20/05 14:30 Received: 10/20/05 18:10									
Silver	ND	0.0500	mg/l	1	SK03041	11/03/05	11/04/05	EPA 6010B	"
Arsenic	ND	0.100	"	"	"	11/01/05	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Lead	ND	0.100	"	"	"	"	"	"	"
Selenium	ND	0.100	"	"	"	"	"	"	"

North Creek Analytical - Bothell

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509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7558
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 17:07

TCLP Metals by EPA 1311/6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B - 11 - S (B5J0426-12) Soil Sampled: 10/20/05 15:00 Received: 10/20/05 18:10									
Mercury	ND	0.00250	mg/l	1	5K01063	11/01/05	11/02/05	EPA 7470A	
B - 11 - S (B5J0426-12RE1) Soil Sampled: 10/20/05 15:00 Received: 10/20/05 18:10									
Silver	ND	0.0500	mg/l	1	5K03041	11/03/05	11/04/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	11/01/05	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Lead	ND	0.100	"	"	"	"	"	"	"
Selenium	ND	0.100	"	"	"	"	"	"	"
B - 11 - M (B5J0426-13) Soil Sampled: 10/20/05 15:20 Received: 10/20/05 18:10									
Mercury	ND	0.00250	mg/l	1	5K01063	11/01/05	11/02/05	EPA 7470A	
B - 11 - M (B5J0426-13RE1) Soil Sampled: 10/20/05 15:20 Received: 10/20/05 18:10									
Silver	ND	0.0500	mg/l	1	5K03041	11/03/05	11/04/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	11/01/05	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Lead	ND	0.100	"	"	"	"	"	"	"
Selenium	ND	0.100	"	"	"	"	"	"	"

North Creek Analytical - Bothell

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 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported: 11/14/05 17:07

Conventional Chemistry Parameters by APHA/EPA Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B - 20 - S (B5J0426-01) Soil Sampled: 10/20/05 08:30 Received: 10/20/05 18:10									
Ammonia-Nitrogen	336	5.70	mg/kg as N dry	1	5J31069	10/31/05	11/01/05	EPA 350.3	
B - 7 - S (B5J0426-02) Soil Sampled: 10/20/05 09:00 Received: 10/20/05 18:10									
Ammonia-Nitrogen	261	5.99	mg/kg as N dry	1	5J31069	10/31/05	11/01/05	EPA 350.3	
B - 7 - M (B5J0426-03) Soil Sampled: 10/20/05 09:30 Received: 10/20/05 18:10									
Ammonia-Nitrogen	449	5.81	mg/kg as N dry	1	5J31069	10/31/05	11/01/05	EPA 350.3	
B - 7 - D (B5J0426-04) Soil Sampled: 10/20/05 10:00 Received: 10/20/05 18:10									
Ammonia-Nitrogen	276	5.69	mg/kg as N dry	1	5J31069	10/31/05	11/01/05	EPA 350.3	
B - 6 - S (B5J0426-05) Soil Sampled: 10/20/05 10:35 Received: 10/20/05 18:10									
Ammonia-Nitrogen	88.3	5.93	mg/kg as N dry	1	5J31069	10/31/05	11/01/05	EPA 350.3	
B - 6 - M (B5J0426-06) Soil Sampled: 10/20/05 10:50 Received: 10/20/05 18:10									
Ammonia-Nitrogen	280	5.66	mg/kg as N dry	1	5J31069	10/31/05	11/01/05	EPA 350.3	
B - 9 - S (B5J0426-07) Soil Sampled: 10/20/05 13:00 Received: 10/20/05 18:10									
Ammonia-Nitrogen	223	6.06	mg/kg as N dry	1	5J31069	10/31/05	11/01/05	EPA 350.3	
B - 9 - M (B5J0426-08) Soil Sampled: 10/20/05 13:20 Received: 10/20/05 18:10									
Ammonia-Nitrogen	300	5.79	mg/kg as N dry	1	5J31069	10/31/05	11/01/05	EPA 350.3	
B - 10 - S (B5J0426-09) Soil Sampled: 10/20/05 14:10 Received: 10/20/05 18:10									
Ammonia-Nitrogen	104	5.46	mg/kg as N dry	1	5J31069	10/31/05	11/01/05	EPA 350.3	

8/11/05

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 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97006-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.382.9310 fax 541.382.7588
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
11/14/05 17:07

Conventional Chemistry Parameters by APHA/EPA Methods
North Creek Analytical - Bothell

Analyte	Reporting	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B - 10 - M (B5J0426-10) Soil Sampled: 10/20/05 14:30 Received: 10/20/05 18:10										
Ammonia-Nitrogen		107 5	5.41	mg/kg as N dry	1	5J31069	10/31/05	11/01/05	EPA 350.3	
COMP - 3 (B5J0426-11) Soil Sampled: 10/20/05 15:25 Received: 10/20/05 18:10										
Cyanide (total)		ND	0.580	mg/kg dry	1	5J28056	10/28/05	10/28/05	EPA 9010B Mod	
pH		8.73		pH Units	"	5J21068	10/21/05	10/21/05	EPA 9045C	
Sulfide		ND	23.2	mg/kg dry	"	5J25060	10/25/05	10/25/05	EPA 9030B	
B - 11 - S (B5J0426-12) Soil Sampled: 10/20/05 15:00 Received: 10/20/05 18:10										
Ammonia-Nitrogen		ND 4.5	7.04	mg/kg as N dry	1	5J31069	10/31/05	11/01/05	EPA 350.3	
B - 11 - M (B5J0426-13) Soil Sampled: 10/20/05 15:20 Received: 10/20/05 18:10										
Ammonia-Nitrogen		54.3 5	6.27	mg/kg as N dry	1	5J31069	10/31/05	11/01/05	EPA 350.3	
COMP - 4 (B5J0426-14) Soil Sampled: 10/20/05 16:30 Received: 10/20/05 18:10										
Cyanide (total)		ND	0.574	mg/kg dry	1	5J28056	10/28/05	10/28/05	EPA 9010B Mod	
pH		9.00		pH Units	"	5J21068	10/21/05	10/21/05	EPA 9045C	
Sulfide		28.1	22.7	mg/kg dry	"	5J25060	10/25/05	10/25/05	EPA 9030B	
COMP - 5 (B5J0426-15) Soil Sampled: 10/20/05 16:15 Received: 10/20/05 18:10										
Cyanide (total)		ND	0.624	mg/kg dry	1	5J28056	10/28/05	10/28/05	EPA 9010B Mod	
pH		8.68		pH Units	"	5J21068	10/21/05	10/21/05	EPA 9045C	
Sulfide		ND	24.8	mg/kg dry	"	5J25060	10/25/05	10/25/05	EPA 9030B	

11-15-05

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Seattle, WA/USA 98101-1616

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425.420.9200 fax 425.420.9210
Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 17:07

Anions by EPA Method 300.0

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B - 20 - S (B5J0426-01) Soil Sampled: 10/20/05 08:30 Received: 10/20/05 18:10									
Chloride	261000	46400	mg/kg dry	10000	SJ27056	10/27/05	11/02/05	EPA 300.0	
B - 7 - S (B5J0426-02) Soil Sampled: 10/20/05 09:00 Received: 10/20/05 18:10									
Chloride	169000	23800	mg/kg dry	5000	SJ27056	10/27/05	11/02/05	EPA 300.0	
B - 7 - M (B5J0426-03) Soil Sampled: 10/20/05 09:30 Received: 10/20/05 18:10									
Chloride	276000	46100	mg/kg dry	10000	SJ27056	10/27/05	11/02/05	EPA 300.0	
B - 7 - D (B5J0426-04) Soil Sampled: 10/20/05 10:00 Received: 10/20/05 18:10									
Chloride	258000	44700	mg/kg dry	10000	SJ27056	10/27/05	11/02/05	EPA 300.0	
B - 6 - S (B5J0426-05) Soil Sampled: 10/20/05 10:35 Received: 10/20/05 18:10									
Chloride	283000	48200	mg/kg dry	10000	SJ27056	10/27/05	11/03/05	EPA 300.0	
B - 6 - M (B5J0426-06) Soil Sampled: 10/20/05 10:50 Received: 10/20/05 18:10									
Chloride	213000	24500	mg/kg dry	5000	SJ27056	10/27/05	11/02/05	EPA 300.0	
B - 9 - S (B5J0426-07) Soil Sampled: 10/20/05 13:00 Received: 10/20/05 18:10									
Chloride	152000	24200	mg/kg dry	5000	SJ27056	10/27/05	11/02/05	EPA 300.0	
B - 9 - M (B5J0426-08) Soil Sampled: 10/20/05 13:20 Received: 10/20/05 18:10									
Chloride	209000	22200	mg/kg dry	5000	SJ27056	10/27/05	11/02/05	EPA 300.0	
B - 10 - S (B5J0426-09) Soil Sampled: 10/20/05 14:10 Received: 10/20/05 18:10									
Chloride	243000	23200	mg/kg dry	5000	SJ27056	10/27/05	11/02/05	EPA 300.0	

North Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7568
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 17:07

Anions by EPA Method 300.0

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B - 10 - M (BSJ0426-10) Soil Sampled: 10/20/05 14:30 Received: 10/20/05 18:10									
Chloride	221000	22300	mg/kg dry	5000	5J27056	10/27/05	11/02/05	EPA 300.0	
B - 11 - S (BSJ0426-12) Soil Sampled: 10/20/05 15:00 Received: 10/20/05 18:10									
Chloride	149	27.0	mg/kg dry	5	5J27056	10/27/05	11/03/05	EPA 300.0	
B - 11 - M (BSJ0426-13) Soil Sampled: 10/20/05 15:20 Received: 10/20/05 18:10									
Chloride	124000	25800	mg/kg dry	5000	5J27056	10/27/05	11/02/05	EPA 300.0	

North Creek Analytical - Bothell

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 509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
11/14/05 17:07

Physical Parameters by APHA/ASTM/EPA Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B - 20 - S (B5J0426-01) Soil Sampled: 10/20/05 08:30 Received: 10/20/05 18:10									
Dry Weight	85.2	1.00	%	1	5J31082	10/31/05	11/02/05	BSOPSPL003R08	
B - 7 - S (B5J0426-02) Soil Sampled: 10/20/05 09:00 Received: 10/20/05 18:10									
Dry Weight	81.2	1.00	%	1	5J31082	10/31/05	11/02/05	BSOPSPL003R08	
B - 7 - M (B5J0426-03) Soil Sampled: 10/20/05 09:30 Received: 10/20/05 18:10									
Dry Weight	86.1	1.00	%	1	5J31082	10/31/05	11/02/05	BSOPSPL003R08	
B - 7 - D (B5J0426-04) Soil Sampled: 10/20/05 10:00 Received: 10/20/05 18:10									
Dry Weight	87.8	1.00	%	1	5J31082	10/31/05	11/02/05	BSOPSPL003R08	
B - 6 - S (B5J0426-05) Soil Sampled: 10/20/05 10:35 Received: 10/20/05 18:10									
Dry Weight	82.6	1.00	%	1	5J31082	10/31/05	11/02/05	BSOPSPL003R08	
B - 6 - M (B5J0426-06) Soil Sampled: 10/20/05 10:50 Received: 10/20/05 18:10									
Dry Weight	81.3	1.00	%	1	5J31082	10/31/05	11/02/05	BSOPSPL003R08	
B - 9 - S (B5J0426-07) Soil Sampled: 10/20/05 13:00 Received: 10/20/05 18:10									
Dry Weight	81.6	1.00	%	1	5J31082	10/31/05	11/02/05	BSOPSPL003R08	
B - 9 - M (B5J0426-08) Soil Sampled: 10/20/05 13:20 Received: 10/20/05 18:10									
Dry Weight	85.9	1.00	%	1	5J31082	10/31/05	11/02/05	BSOPSPL003R08	
B - 10 - S (B5J0426-09) Soil Sampled: 10/20/05 14:10 Received: 10/20/05 18:10									
Dry Weight	85.3	1.00	%	1	5J31082	10/31/05	11/02/05	BSOPSPL003R08	

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509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7192
503.905.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
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1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 17:07

Physical Parameters by APHA/ASTM/EPA Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B - 10 - M (B5J0426-10) Soil Sampled: 10/20/05 14:30 Received: 10/20/05 18:10									
Dry Weight	88.0	1.00	%	1	SJ31082	10/31/05	11/02/05	BSOPSPL003R08	
COMP - 3 (B5J0426-11) Soil Sampled: 10/20/05 15:25 Received: 10/20/05 18:10									
Dry Weight	85.3	1.00	%	1	SJ31082	10/31/05	11/02/05	BSOPSPL003R08	
B - 11 - S (B5J0426-12) Soil Sampled: 10/20/05 15:00 Received: 10/20/05 18:10									
Dry Weight	70.5	1.00	%	1	SJ31082	10/31/05	11/02/05	BSOPSPL003R08	
B - 11 - M (B5J0426-13) Soil Sampled: 10/20/05 15:20 Received: 10/20/05 18:10									
Dry Weight	77.3	1.00	%	1	SJ31082	10/31/05	11/02/05	BSOPSPL003R08	
COMP - 4 (B5J0426-14) Soil Sampled: 10/20/05 16:30 Received: 10/20/05 18:10									
Dry Weight	85.4	1.00	%	1	SJ31082	10/31/05	11/02/05	BSOPSPL003R08	
COMP - 5 (B5J0426-15) Soil Sampled: 10/20/05 16:15 Received: 10/20/05 18:10									
Dry Weight	80.1	1.00	%	1	SJ31082	10/31/05	11/02/05	BSOPSPL003R08	

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URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

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Project Number: 33757742
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11/14/05 17:07

Physical Parameters by APHA/ASTM/EPA Methods
North Creek Analytical - Spokane

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
COMP - 3 (B5J0426-11) Soil Sampled: 10/20/05 15:25 Received: 10/20/05 18:10									
Flashpoint	ND	20.0	°C	1	5100254	10/31/05	11/01/05	EPA 1010	F-01
COMP - 4 (B5J0426-14) Soil Sampled: 10/20/05 16:30 Received: 10/20/05 18:10									
Flashpoint	ND	20.0	°C	1	5100254	10/31/05	11/01/05	EPA 1010	F-01
COMP - 5 (B5J0426-15) Soil Sampled: 10/20/05 16:15 Received: 10/20/05 18:10									
Flashpoint	ND	20.0	°C	1	5100254	10/31/05	11/01/05	EPA 1010	F-01

North Creek Analytical - Bothell

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 509.924.9200 fax 509.924.9290
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 907.563.9200 fax 907.563.9210

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 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
11/14/05 17:07

Total Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch SJ26067: Prepared 10/26/05 Using EPA 3050B										
Blank (SJ26067-BLK1)										
Copper	ND	0.500	mg/kg							
Nickel	ND	0.500	"							
Zinc	ND	5.00	"							
LCS (SJ26067-BS1)										
Copper	37.6	0.500	mg/kg	40.0		94.0	80-120			
Nickel	38.4	0.500	"	40.0		96.0	80-120			
Zinc	40.9	5.00	"	40.0		102	80-120			
LCS Dup (SJ26067-BSD1)										
Copper	37.8	0.500	mg/kg	40.0		94.5	80-120	0.531	20	
Nickel	38.4	0.500	"	40.0		96.0	80-120	0.00	20	
Zinc	41.7	5.00	"	40.0		104	80-120	1.94	20	
Matrix Spike (SJ26067-MS1)										
Nickel	89.5	0.778	mg/kg dry	62.2	34.8	87.9	56-135			
Matrix Spike (SJ26067-MS2)										
Copper	1100	7.78	mg/kg dry	62.2	1090	16.1	33-156			Q-03
Zinc	659	77.8	"	62.2	529	209	20-160			Q-03
Matrix Spike Dup (SJ26067-MSD1)										
Nickel	91.2	0.778	mg/kg dry	62.2	34.8	90.7	56-135	1.88	30	
Matrix Spike Dup (SJ26067-MSD2)										
Copper	1070	7.78	mg/kg dry	62.2	1090	-32.2	33-156	2.76	30	
Zinc	582	77.8	"	62.2	529	85.2	20-160	12.4	30	

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Bend	20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588
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1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 17:07

Total Metals by EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 5J26067: Prepared 10/26/05 Using EPA 3050B

Post Spike (5J26067-PS1)

Nickel	0.132	ug/ml	0.100	0.0448	87.2	75-125
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Source: B5J0381-05

Post Spike (5J26067-PS2)

Copper	1.55	ug/ml	0.101	1.41	139	75-125	Q-03
Zinc	0.750	"	0.100	0.681	69.0	75-125	Q-03

Source: B5J0381-05RE1

Batch 5J26068: Prepared 10/26/05 Using EPA 3050B

Blank (5J26068-BLK1)

Copper	ND	0.500	mg/kg
Nickel	ND	0.500	"
Zinc	ND	5.00	"

LCS (5J26068-BS1)

Copper	38.6	0.500	mg/kg	40.0	96.5	80-120
Nickel	39.6	0.500	"	40.0	99.0	80-120
Zinc	39.9	5.00	"	40.0	99.8	80-120

LCS Dup (5J26068-BSD1)

Copper	38.8	0.500	mg/kg	40.0	97.0	80-120	0.517	20
Nickel	40.0	0.500	"	40.0	100	80-120	1.01	20
Zinc	40.2	5.00	"	40.0	100	80-120	0.749	20

Matrix Spike (5J26068-MS1)

Nickel	81.8	0.586	mg/kg dry	46.9	47.5	73.1	56-135
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Source: B5J0426-09

Matrix Spike (5J26068-MS2)

Copper	1170	5.86	mg/kg dry	46.9	1270	-213	33-156	Q-03
Zinc	902	58.6	"	46.9	931	-61.8	20-160	Q-01

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 541.383.0310 fax 541.382.7555
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
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Total Metals by EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 5J26068: Prepared 10/26/05 Using EPA 3050B										
Matrix Spike Dup (5J26068-MSD1)										
Source: B5J0426-09										
Nickel	98.5	0.586	mg/kg dry	46.9	47.5	109	56-135	18.5	30	
Matrix Spike Dup (5J26068-MSD2)										
Source: B5J0426-09RE1										
Copper	1260	5.86	mg/kg dry	46.9	1270	-21.3	33-156	7.41	30	Q-03
Zinc	961	58.6	"	46.9	931	64.0	20-160	6.33	30	
Post Spike (5J26068-PS1)										
Source: B5J0426-09										
Nickel	0.174		ug/ml	0.100	0.0811	92.9	75-125			
Post Spike (5J26068-PS2)										
Source: B5J0426-09RE1										
Copper	2.25		ug/ml	0.101	2.16	89.1	75-125			
Zinc	1.68		"	0.100	1.59	90.0	75-125			
Batch 5K08027: Prepared 11/08/05 Using EPA 3050B										
Blank (5K08027-BLK1)										
Potassium	ND	15.0	mg/kg							
Sodium	ND	15.0	"							
LCS (5K08027-BS1)										
Potassium	560	15.0	mg/kg	500		112	80-120			
Sodium	273	15.0	"	250		109	80-120			
LCS Dup (5K08027-BSD1)										
Potassium	544	15.0	mg/kg	500		109	80-120	2.90	20	
Sodium	268	15.0	"	250		107	80-120	1.85	20	

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1501 4th Ave, Suite 1400
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Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 17:07

Total Metals by EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 5K08027: Prepared 11/08/05 Using EPA 3050B

Matrix Spike (5K08027-MS1)

					Source: BSJ0426-01RE1					
Potassium	122000	1730	mg/kg dry	575	142000	-3480	70-130			Q-03
Sodium	105000	1730	"	288	108000	-1040	70-130			Q-03

Matrix Spike Dup (5K08027-MSD1)

					Source: BSJ0426-01RE1					
Potassium	153000	1760	mg/kg dry	587	142000	1870	70-130	22.5	30	Q-03
Sodium	116000	1760	"	293	108000	2730	70-130	9.95	30	Q-03

Post Spike (5K08027-PS1)

					Source: BSJ0426-01RE1					
Potassium	2350		ug/ml	10.0	2420	-700	75-125			Q-03
Sodium	1860		"	5.00	1840	400	75-125			Q-03

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 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.0310 fax 541.383.7558
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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 Project Number: 33757742
 Project Manager: Vance Atkins

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11/14/05 17:07

TCLP Metals by EPA 1311/6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 5K01063: Prepared 11/01/05 Using EPA 7470A

Blank (SK01063-BLK1)

Mercury	ND	0.00100	mg/l
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LCS (SK01063-BS1)

Mercury	0.00472	0.00100	mg/l	0.00500	94.4	80-120
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LCS Dup (SK01063-BSD1)

Mercury	0.00467	0.00100	mg/l	0.00500	93.4	80-120	1.06	20
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Matrix Spike (SK01063-MS1)

Mercury	0.0118	0.00250	mg/l	0.0125	ND	94.4	75-125
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Matrix Spike Dup (SK01063-MSD1)

Mercury	0.0130	0.00250	mg/l	0.0125	ND	104	75-125	9.68	20
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Batch 5K03041: Prepared 11/03/05 Using EPA 3010A

Blank (SK03041-BLK1)

Silver	ND	0.0500	mg/l
Arsenic	ND	0.100	"
Barium	ND	1.00	"
Cadmium	ND	0.0500	"
Chromium	ND	0.100	"
Lead	ND	0.100	"
Selenium	ND	0.100	"

LCS (SK03041-BS1)

Silver	10.5	0.0500	mg/l	10.0	105	80-120
Arsenic	51.4	0.100	"	50.0	103	80-120
Barium	48.7	1.00	"	50.0	97.4	80-120
Cadmium	51.1	0.0500	"	50.0	102	80-120
Chromium	50.1	0.100	"	50.0	100	80-120
Lead	51.7	0.100	"	50.0	103	80-120
Selenium	51.7	0.100	"	50.0	103	80-120

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Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
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TCLP Metals by EPA 1311/6000/7000 Series Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
Batch 5K03041: Prepared 11/03/05 Using EPA 3010A									
LCS Dup (5K03041-BSD1)									
Silver	11.0	0.0500	mg/l	10.0	110	80-120	4.65	35	
Arsenic	51.1	0.100	"	50.0	102	80-120	0.585	20	
Barium	47.9	1.00	"	50.0	95.8	80-120	1.66	20	
Cadmium	51.0	0.0500	"	50.0	102	80-120	0.196	20	
Chromium	49.8	0.100	"	50.0	99.6	80-120	0.601	20	
Lead	51.5	0.100	"	50.0	103	80-120	0.388	20	
Selenium	51.7	0.100	"	50.0	103	80-120	0.00	20	
Matrix Spike (5K03041-MS1)									
Silver	11.1	0.0500	mg/l	10.0	ND	111	75-125		
Arsenic	50.7	0.100	"	50.0	ND	101	80-120		
Barium	47.3	1.00	"	50.0	0.561	93.5	80-120		
Cadmium	50.2	0.0500	"	50.0	0.0110	100	80-120		
Chromium	48.7	0.100	"	50.0	0.109	97.2	80-120		
Lead	51.0	0.100	"	50.0	0.0270	102	80-120		
Selenium	51.0	0.100	"	50.0	0.0630	102	80-120		
Matrix Spike Dup (5K03041-MSD1)									
Silver	12.1	0.0500	mg/l	10.0	ND	121	75-125	8.62	35
Arsenic	50.5	0.100	"	50.0	ND	101	80-120	0.395	20
Barium	46.2	1.00	"	50.0	0.561	91.3	80-120	2.35	20
Cadmium	50.0	0.0500	"	50.0	0.0110	100	80-120	0.399	20
Chromium	48.6	0.100	"	50.0	0.109	97.0	80-120	0.206	20
Lead	50.9	0.100	"	50.0	0.0270	102	80-120	0.196	20
Selenium	50.7	0.100	"	50.0	0.0630	101	80-120	0.590	20

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509.924.9200 Fax 509.924.9290
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503.906.9200 Fax 503.906.9210
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541.383.0310 Fax 541.382.7558
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 Fax 907.563.9210

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Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 17:07

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 5J21068: Prepared 10/21/05 Using General Preparation

Duplicate (SJ21068-DUP1)	Source: BSJ0426-11									
pH	8.74		pH Units		8.73			0.114	10	

Batch 5J25060: Prepared 10/25/05 Using General Preparation

Blank (SJ25060-BLK1)										
Sulfide	ND	19.7	mg/kg							

LCS (SJ25060-BS1)										
Sulfide	104	19.9	mg/kg	125	83.2	75-125				

LCS Dup (SJ25060-BSD1)										
Sulfide	109	20.0	mg/kg	125	87.2	75-125	4.69	25		

Duplicate (SJ25060-DUP1)	Source: BSJ0465-19									
Sulfide	39.8	24.6	mg/kg dry		28.0			34.8	30	Q-14

Matrix Spike (SJ25060-MS1)	Source: BSJ0465-19									
Sulfide	175	24.3	mg/kg dry	153	28.0	96.1	20-120			

Batch 5J28056: Prepared 10/28/05 Using General Preparation

Blank (SJ28056-BLK1)										
Cyanide (total)	ND	0.500	mg/kg							

Blank (SJ28056-BLK2)										
Cyanide (total)	ND	0.500	mg/kg							

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Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 5J28056: Prepared 10/28/05 Using General Preparation										
LCS (5J28056-BS1)										
Cyanide (total)	5.10	0.500	mg/kg	4.97		103	85-115			
LCS (5J28056-BS2)										
Cyanide (total)	4.95	0.500	mg/kg	4.97		99.6	85-115			
LCS Dup (5J28056-BSD1)										
Cyanide (total)	5.00	0.500	mg/kg	4.97		101	85-115	1.98	30	
Duplicate (5J28056-DUP1)										
Cyanide (total)	1.16	0.683	mg/kg dry			1.16		0.00	46	
Matrix Spike (5J28056-MS1)										
Cyanide (total)	7.30	0.664	mg/kg dry	6.60	1.16	93.0	27-138			
Batch 5J31069: Prepared 10/31/05 Using General Preparation										
Blank (5J31069-BLK1)										
Ammonia-Nitrogen	ND	5.00	mg/kg as N							
LCS (5J31069-BS1)										
Ammonia-Nitrogen	236	5.00	mg/kg as N	250		94.4	75-125			
LCS Dup (5J31069-BSD1)										
Ammonia-Nitrogen	239	5.00	mg/kg as N	250		95.6	75-125	1.26	25	
Matrix Spike (5J31069-MS1)										
Ammonia-Nitrogen	354	5.57	mg/kg as N dry	278	104	89.9	59-127			

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Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.385.5510 fax 541.382.7388
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 17:07

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch SJ31069: Prepared 10/31/05 Using General Preparation										
Matrix Spike Dup (SJ31069-MSD1)										
Ammonia-Nitrogen	317	4.82	mg/kg as N dry	241	104	88.4	59-127	11.0	30	

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Gerdes, Project Manager



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Seattle, WA/USA 98101-1616

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425.420.9200 fax 425.420.9210
Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 17:07

Anions by EPA Method 300.0 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 5J27056: Prepared 10/27/05 Using General Preparation										
Blank (5J27056-BLK1)										
Chloride	ND	4.00	mg/kg							
LCS (5J27056-BS1)										
Chloride	18.5	4.00	mg/kg	20.0		92.5	90-110			
LCS Dup (5J27056-BSD1)										
Chloride	18.8	4.00	mg/kg	20.0		94.0	90-110	1.61	10	
Matrix Spike (5J27056-MS1)										
Chloride	224000	23200	mg/kg dry	23.2	243000	-81900	62-157			Q-15
Matrix Spike Dup (5J27056-MSD1)										
Chloride	248000	23300	mg/kg dry	23.3	243000	21500	62-157	10.2	25	

North Creek Analytical - Bothell

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509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.5310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 17:07

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 5J31082: Prepared 10/31/05 Using Dry Weight

Blank (SJ31082-BLK1)

Dry Weight	100	1.00	%
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Jeff Gerdes, Project Manager



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503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
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907.563.9200 fax 907.563.9210

URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 17:07

Notes and Definitions

- F-01 No flash detected up to 100 °C
- Q-01 The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
- Q-03 The percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte already present in the sample.
- Q-14 Visual examination indicates the RPD and/or matrix spike recovery is outside the control limit due to a non-homogeneous sample matrix.
- Q-15 Analyses are not controlled on matrix spike RPD and/or percent recoveries when the sample concentration is significantly higher than the spike level.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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Environmental Laboratory Network

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CHAIN OF CUSTODY REPORT

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 9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
 20332 Empire Ave, Ste F1, Bend, OR 97701-5712 541-383-9310 FAX 382-7588
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 963-9210

Work Order #:

B5J0426

NCA CLIENT: URS Corporation		INVOICE TO: URS		TURNAROUND REQUEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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SAMPLED BY: Matt Hommeyer		T.L.C.	P.D.	AAS	GC	FISH	BIOASSAY	P.A.	BIOASSAY	pH	(9045C)	CARBOXYLIC	(1030)	(1850)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)	(1650)	(1660)	(1670)	(1680)	(1690)	(1600)	(1610)	(1620)	(1630)	(1640)



CHAIN OF CUSTODY REPORT

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244	425-420-9200	FAX 420-9210	▲
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2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119	907-363-9200	FAX 563-9210	

Work Order #: 03304910

NCA CLIENT: URS CORP		INVOICE TO: URS	TURNAROUND REQUEST										
REPORT TO: Vance Atkins		In Business Days *											
ADDRESS: 1501 4th Ave, Suite 1400 Seattle, WA 98101		Organic & Inorganic Analyses		Petroleum Hydrocarbon Analyses									
PHONE: 206-438-2012 FAX: 206-438-2699		<input checked="" type="checkbox"/> 7	<input type="checkbox"/> 5	<input type="checkbox"/> 4	<input type="checkbox"/> 3	<input type="checkbox"/> 2	<input type="checkbox"/> 1	<input type="checkbox"/> 11					
PROJECT NAME: Manco Co		<input type="checkbox"/> 5	<input type="checkbox"/> 4	<input type="checkbox"/> 3	<input type="checkbox"/> 2	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 11					
PROJECT NUMBER: 33353742		PRESERVATIVE											
SAMPLED BY: M. Nonnemeyer		REQUESTED ANALYSES											
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	TOTAL ALKALI (Na^{+}) (K^{+})	TOTAL ALKALINE EARTH (Ca^{2+} , Mg^{2+})	AMMONIA (NH_4^+)	CHLORINE (Cl^-)	FISH TOXICITY (PCP)	PAH (PCB)	PHT (PHT)	PCP (PCP)	Leach (PCP)	PCP (PCP)	PCP (PCP)	PCP (PCP)
1 Comp-3	10/20/05 1525												
2 B-11-S													
3 B-11-M													
4 Comp-4													
5 Comp-5													
6													
7													
8													
9													
10													
RELEASED BY: Matt Nonnemeyer	DATE: 10/20/05	RECEIVED BY: <i>[Signature]</i>	DATE: 10/20/05										
PRINT NAME: Matt Nonnemeyer	FIRM: URS	TIME: 1810	PRINT NAME: PRANY SANTO	FIRM: URS	TIME: 1610								
RELEASED BY:	DATE:	RECEIVED BY:	DATE:										
PRINT NAME:	FIRM:	PRINT NAME:	FIRM:										
ADDITIONAL REMARKS:	TOTAL METALS: Cu, Ni, Zn, Mn, K hold bioassays pending results of other analyses												
COC REV 09/04	TEMP: 95	W/D: 95	PAGE: 202										

SUBCONTRACT ORDER
North Creek Analytical - Bothell
B5J0426

SENDING LABORATORY:

North Creek Analytical - Bothell
11720 North Creek Parkway North, Suite 400
Bothell, WA 98011-8223
Phone: (425) 420-9200
Fax: (425) 420-9210
Project Manager: Jeff Gerdes

RECEIVING LABORATORY:

North Creek Analytical - Spokane
11922 E 1st Ave
Spokane, WA/USA 99206
Phone :509-924-9200
Fax: 509-924-9290

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: B5J0426-11	Soil	Sampled: 10/20/05 15:25	[REDACTED]	
Ignitability-1010	11/03/05 17:00	11/17/05 15:25		Sub contract to Spokane.
<i>Containers Supplied:</i> 4 oz. jar (B)				
Sample ID: B5J0426-14	Soil	Sampled: 10/20/05 16:30	[REDACTED]	
Ignitability-1010	11/03/05 17:00	11/17/05 16:30		Sub contract to Spokane.
<i>Containers Supplied:</i> 4 oz. jar (B)				
Sample ID: B5J0426-15	Soil	Sampled: 10/20/05 16:15	[REDACTED]	
Ignitability-1010	11/03/05 17:00	11/17/05 16:15		Sub contract to Spokane.
<i>Containers Supplied:</i> 4 oz. jar (B)				

Odette Weaver 10/24/05 *Handwritten* 10/25/05
Released By Date Received By Date
25°C

Released By Date Received By Date
Page 1 of 1



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907.563.9200 fax 907.563.9210

URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 16:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-1-S	B5J0381-01	Soil	10/19/05 10:30	10/19/05 18:45
B-1-D	B5J0381-02	Soil	10/19/05 10:35	10/19/05 18:45
B-2-S	B5J0381-03	Soil	10/19/05 11:25	10/19/05 18:45
B-2-D	B5J0381-04	Soil	10/19/05 11:27	10/19/05 18:45
B-3-S	B5J0381-05	Soil	10/19/05 12:15	10/19/05 18:45
B-3-D	B5J0381-06	Soil	10/19/05 12:20	10/19/05 18:45
B-4-S	B5J0381-07	Soil	10/19/05 13:05	10/19/05 18:45
B-4-M	B5J0381-08	Soil	10/19/05 13:10	10/19/05 18:45
B-4-D	B5J0381-09	Soil	10/19/05 13:15	10/19/05 18:45
B-5-S	B5J0381-10	Soil	10/19/05 13:55	10/19/05 18:45
B-5-D	B5J0381-11	Soil	10/19/05 14:00	10/19/05 18:45
B-8-S	B5J0381-12	Soil	10/19/05 14:25	10/19/05 18:45
B-8-M	B5J0381-13	Soil	10/19/05 14:30	10/19/05 18:45
B-8-D	B5J0381-14	Soil	10/19/05 14:37	10/19/05 18:45
COMP-1	B5J0381-15	Soil	10/19/05 15:35	10/19/05 18:45
COMP-2	B5J0381-16	Soil	10/19/05 15:55	10/19/05 18:45
B-19-S	B5J0381-17	Soil	10/19/05 10:45	10/19/05 18:45

North Creek Analytical - Bothell

Jeff Gerdes, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Environmental Laboratory Network



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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.383.7588
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
11/14/05 16:48

Total Metals by EPA 6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-1-S (B5J0381-01) Soil Sampled: 10/19/05 10:30 Received: 10/19/05 18:45									
Nickel	48.2	0.756	mg/kg dry	1	SJ26067	10/26/05	11/01/05	EPA 6020	
B-1-S (B5J0381-01RE1) Soil Sampled: 10/19/05 10:30 Received: 10/19/05 18:45									
Copper	2180	15.1	mg/kg dry	20	SJ26067	10/26/05	11/06/05	EPA 6020	
Potassium	38000	1990	"	100	SK08025	11/08/05	11/12/05	EPA 6010B	
Sodium	23600	1990	"	"	"	"	"	"	
Zinc	3520	151	"	20	SJ26067	10/26/05	11/06/05	EPA 6020	
B-1-D (B5J0381-02) Soil Sampled: 10/19/05 10:35 Received: 10/19/05 18:45									
Nickel	35.2	0.636	mg/kg dry	1	SJ26067	10/26/05	11/01/05	EPA 6020	
B-1-D (B5J0381-02RE1) Soil Sampled: 10/19/05 10:35 Received: 10/19/05 18:45									
Copper	1000	6.36	mg/kg dry	10	SJ26067	10/26/05	11/06/05	EPA 6020	
Potassium	23600	2380	"	100	SK08025	11/08/05	11/12/05	EPA 6010B	
Sodium	20900	2380	"	"	"	"	"	"	
Zinc	767	63.6	"	10	SJ26067	10/26/05	11/06/05	EPA 6020	
B-2-S (B5J0381-03) Soil Sampled: 10/19/05 11:25 Received: 10/19/05 18:45									
Nickel	142	0.831	mg/kg dry	1	SJ26067	10/26/05	11/01/05	EPA 6020	
B-2-S (B5J0381-03RE1) Soil Sampled: 10/19/05 11:25 Received: 10/19/05 18:45									
Copper	4760	16.6	mg/kg dry	20	SJ26067	10/26/05	11/06/05	EPA 6020	
Potassium	42600	2100	"	100	SK08025	11/08/05	11/12/05	EPA 6010B	
Sodium	27200	2100	"	"	"	"	"	"	
Zinc	4250	166	"	20	SJ26067	10/26/05	11/06/05	EPA 6020	

North Creek Analytical - Bothell

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 509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
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 541.383.9310 fax 541.382.7588
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 907.563.9200 fax 907.563.9210

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 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
 11/14/05 16:48

Total Metals by EPA 6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-2-D (B5J0381-04) Soil Sampled: 10/19/05 11:27 Received: 10/19/05 18:45									
Nickel	67.2	0.756	mg/kg dry	1	SJ26067	10/26/05	11/01/05	EPA 6020	
B-2-D (B5J0381-04RE1) Soil Sampled: 10/19/05 11:27 Received: 10/19/05 18:45									
Copper	2740	15.1	mg/kg dry	20	SJ26067	10/26/05	11/06/05	EPA 6020	
Potassium	38200	2270	"	100	SK08025	11/08/05	11/12/05	EPA 6010B	
Sodium	26200	2270	"	"	"	"	"	"	
Zinc	1780	151	"	20	SJ26067	10/26/05	11/06/05	EPA 6020	
B-3-S (B5J0381-05) Soil Sampled: 10/19/05 12:15 Received: 10/19/05 18:45									
Nickel	34.8	0.778	mg/kg dry	1	SJ26067	10/26/05	11/01/05	EPA 6020	
B-3-S (BSJ0381-05RE1) Soil Sampled: 10/19/05 12:15 Received: 10/19/05 18:45									
Copper	1090	7.78	mg/kg dry	10	SJ26067	10/26/05	11/06/05	EPA 6020	
Potassium	4110	23.3	"	1	SK08025	11/08/05	11/11/05	EPA 6010B	
Sodium	4590	23.3	"	"	"	"	"	"	
Zinc	529	77.8	"	10	SJ26067	10/26/05	11/06/05	EPA 6020	
B-3-D (B5J0381-06) Soil Sampled: 10/19/05 12:20 Received: 10/19/05 18:45									
Nickel	100	0.576	mg/kg dry	1	SJ26067	10/26/05	11/01/05	EPA 6020	
B-3-D (B5J0381-06RE1) Soil Sampled: 10/19/05 12:20 Received: 10/19/05 18:45									
Copper	2480	11.5	mg/kg dry	20	SJ26067	10/26/05	11/06/05	EPA 6020	
Potassium	6260	19.0	"	1	SK08025	11/08/05	11/11/05	EPA 6010B	
Sodium	4500	19.0	"	"	"	"	"	"	
Zinc	1670	115	"	20	SJ26067	10/26/05	11/06/05	EPA 6020	

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 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
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 541.383.9310 fax 541.382.7588
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
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Total Metals by EPA 6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-4-S (B5J0381-07) Soil Sampled: 10/19/05 13:05 Received: 10/19/05 18:45									
Nickel	72.8	0.842	mg/kg dry	1	5J26067	10/26/05	11/01/05	EPA 6020	
B-4-S (B5J0381-07RE1) Soil Sampled: 10/19/05 13:05 Received: 10/19/05 18:45									
Copper	2320	8.42	mg/kg dry	10	5J26067	10/26/05	11/06/05	EPA 6020	
Potassium	7210	21.0	"	1	5K08025	11/08/05	11/11/05	EPA 6010B	
Sodium	7200	21.0	"	"	"	"	"	"	"
Zinc	1360	84.2	"	10	5J26067	10/26/05	11/06/05	EPA 6020	
B-4-M (B5J0381-08) Soil Sampled: 10/19/05 13:10 Received: 10/19/05 18:45									
Nickel	110	0.776	mg/kg dry	1	5J26067	10/26/05	11/01/05	EPA 6020	
B-4-M (B5J0381-08RE1) Soil Sampled: 10/19/05 13:10 Received: 10/19/05 18:45									
Copper	5730	38.8	mg/kg dry	50	5J26067	10/26/05	11/06/05	EPA 6020	
Potassium	6850	22.6	"	1	5K08025	11/08/05	11/11/05	EPA 6010B	
Sodium	7240	22.6	"	"	"	"	"	"	"
Zinc	2210	388	"	50	5J26067	10/26/05	11/06/05	EPA 6020	
B-4-D (B5J0381-09) Soil Sampled: 10/19/05 13:15 Received: 10/19/05 18:45									
Nickel	45.5	0.935	mg/kg dry	1	5J26067	10/26/05	11/01/05	EPA 6020	
B-4-D (B5J0381-09RE1) Soil Sampled: 10/19/05 13:15 Received: 10/19/05 18:45									
Copper	1770	9.35	mg/kg dry	10	5J26067	10/26/05	11/06/05	EPA 6020	
Potassium	12800	23.0	"	1	5K08025	11/08/05	11/11/05	EPA 6010B	
Sodium	8550	23.0	"	"	"	"	"	"	"
Zinc	846	93.5	"	10	5J26067	10/26/05	11/06/05	EPA 6020	

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Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.583.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

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Total Metals by EPA 6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-5-S (BSJ0381-10) Soil Sampled: 10/19/05 13:55 Received: 10/19/05 18:45									
Nickel	39.0	0.645	mg/kg dry	1	5J26067	10/26/05	11/01/05	EPA 6020	
B-5-S (BSJ0381-10RE1) Soil Sampled: 10/19/05 13:55 Received: 10/19/05 18:45									
Copper	1520	6.45	mg/kg dry	10	5J26067	10/26/05	11/06/05	EPA 6020	
Potassium	32200	2200	"	100	5K08025	11/08/05	11/12/05	EPA 6010B	
Sodium	18800	2200	"	"	"	"	"	"	"
Zinc	700	64.5	"	10	5J26067	10/26/05	11/06/05	EPA 6020	
B-5-D (BSJ0381-11) Soil Sampled: 10/19/05 14:00 Received: 10/19/05 18:45									
Nickel	74.6	0.729	mg/kg dry	1	5J26067	10/26/05	11/01/05	EPA 6020	
B-5-D (BSJ0381-11RE1) Soil Sampled: 10/19/05 14:00 Received: 10/19/05 18:45									
Copper	2470	14.6	mg/kg dry	20	5J26067	10/26/05	11/06/05	EPA 6020	
Potassium	47800	2080	"	100	5K08025	11/08/05	11/12/05	EPA 6010B	
Sodium	41500	2080	"	"	"	"	"	"	"
Zinc	1180	146	"	20	5J26067	10/26/05	11/06/05	EPA 6020	
B-8-S (BSJ0381-12) Soil Sampled: 10/19/05 14:25 Received: 10/19/05 18:45									
Nickel	51.5	0.708	mg/kg dry	1	5J26067	10/26/05	11/01/05	EPA 6020	
B-8-S (BSJ0381-12RE1) Soil Sampled: 10/19/05 14:25 Received: 10/19/05 18:45									
Copper	1470	7.08	mg/kg dry	10	5J26067	10/26/05	11/06/05	EPA 6020	
Potassium	20900	2040	"	100	5K08025	11/08/05	11/12/05	EPA 6010B	
Sodium	12100	2040	"	"	"	"	"	"	"
Zinc	882	70.8	"	10	5J26067	10/26/05	11/06/05	EPA 6020	

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Seattle, WA/USA 98101-1616

Seattle	11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 425.420.9200 fax 425.420.9210
Spokane	11922 E. 1st Avenue, Spokane Valley, WA 99206-5302 509.924.9200 fax 509.924.9290
Portland	9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210
Bend	20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588
Anchorage	2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119 907.563.9200 fax 907.563.9210

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
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Total Metals by EPA 6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-8-M (B5J0381-13) Soil Sampled: 10/19/05 14:30 Received: 10/19/05 18:45									
Nickel	35.3	0.746	mg/kg dry	1	SJ26067	10/26/05	11/01/05	EPA 6020	
B-8-M (B5J0381-13RE1) Soil Sampled: 10/19/05 14:30 Received: 10/19/05 18:45									
Copper	1220	7.46	mg/kg dry	10	SJ26067	10/26/05	11/06/05	EPA 6020	
Potassium	101000	1950	"	100	SK08025	11/08/05	11/12/05	EPA 6010B	
Sodium	67500	1950	"	"	"	"	"	"	"
Zinc	1830	74.6	"	10	SJ26067	10/26/05	11/06/05	EPA 6020	
B-8-D (B5J0381-14) Soil Sampled: 10/19/05 14:37 Received: 10/19/05 18:45									
Nickel	44.4	0.517	mg/kg dry	1	SJ26067	10/26/05	11/01/05	EPA 6020	
B-8-D (B5J0381-14RE1) Soil Sampled: 10/19/05 14:37 Received: 10/19/05 18:45									
Copper	1470	10.3	mg/kg dry	20	SJ26067	10/26/05	11/06/05	EPA 6020	
Potassium	159000	1740	"	100	SK08025	11/08/05	11/12/05	EPA 6010B	
Sodium	44000	1740	"	"	"	"	"	"	"
Zinc	885	103	"	20	SJ26067	10/26/05	11/06/05	EPA 6020	
B-19-S (B5J0381-17) Soil Sampled: 10/19/05 10:45 Received: 10/19/05 18:45									
Nickel	60.6	0.868	mg/kg dry	1	SJ26067	10/26/05	11/01/05	EPA 6020	
B-19-S (B5J0381-17RE1) Soil Sampled: 10/19/05 10:45 Received: 10/19/05 18:45									
Copper	1870	8.68	mg/kg dry	10	SJ26067	10/26/05	11/06/05	EPA 6020	
Potassium	45300	2440	"	100	SK08025	11/08/05	11/12/05	EPA 6010B	
Sodium	24700	2440	"	"	"	"	"	"	"
Zinc	1500	86.8	"	10	SJ26067	10/26/05	11/06/05	EPA 6020	

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 509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
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 907.563.9200 fax 907.563.9210

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Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 16:48

TCLP Metals by EPA 1311/6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-1-S (B5J0381-01) Soil Sampled: 10/19/05 10:30 Received: 10/19/05 18:45									
Silver	ND	0.0500	mg/l	1	SJ26011	10/26/05	10/26/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	SJ26053	10/26/05	10/26/05	EPA 7470A	
Lead	ND	0.100	"	"	SJ26011	10/26/05	10/26/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"
B-1-D (B5J0381-02) Soil Sampled: 10/19/05 10:35 Received: 10/19/05 18:45									
Silver	ND	0.0500	mg/l	1	SJ26011	10/26/05	10/26/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	SJ26053	10/26/05	10/26/05	EPA 7470A	
Lead	ND	0.100	"	"	SJ26011	10/26/05	10/26/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"
B-2-S (B5J0381-03) Soil Sampled: 10/19/05 11:25 Received: 10/19/05 18:45									
Silver	ND	0.0500	mg/l	1	SJ26011	10/26/05	10/26/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	SJ26053	10/26/05	10/26/05	EPA 7470A	
Lead	ND	0.100	"	"	SJ26011	10/26/05	10/26/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"

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 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

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TCLP Metals by EPA 1311/6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-2-D (B5J0381-04) Soil Sampled: 10/19/05 11:27 Received: 10/19/05 18:45									
Silver	ND	0.0500	mg/l	1	5J26011	10/26/05	10/26/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	5J26053	10/26/05	10/26/05	EPA 7470A	
Lead	ND	0.100	"	"	5J26011	10/26/05	10/26/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"
B-3-S (B5J0381-05) Soil Sampled: 10/19/05 12:15 Received: 10/19/05 18:45									
Silver	ND	0.0500	mg/l	1	5J26011	10/26/05	10/26/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	5J26053	10/26/05	10/26/05	EPA 7470A	
Lead	ND	0.100	"	"	5J26011	10/26/05	10/26/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"
B-3-D (B5J0381-06) Soil Sampled: 10/19/05 12:20 Received: 10/19/05 18:45									
Silver	ND	0.0500	mg/l	1	5J26011	10/26/05	10/26/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	5J26053	10/26/05	10/26/05	EPA 7470A	
Lead	ND	0.100	"	"	5J26011	10/26/05	10/26/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"

North Creek Analytical - Bothell

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Seattle, WA/USA 98101-1616

Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9200 fax 425.420.9210
Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 16:48

TCLP Metals by EPA 1311/6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-4-S (B5J0381-07) Soil Sampled: 10/19/05 13:05 Received: 10/19/05 18:45									
Silver	ND	0.0500	mg/l	1	SJ26028	10/26/05	10/27/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	SJ26054	10/26/05	10/31/05	EPA 7470A	
Lead	ND	0.100	"	"	SJ26028	10/26/05	10/27/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"
B-4-M (B5J0381-08) Soil Sampled: 10/19/05 13:10 Received: 10/19/05 18:45									
Silver	ND	0.0500	mg/l	1	SJ26028	10/26/05	10/27/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	SJ26054	10/26/05	10/31/05	EPA 7470A	
Lead	ND	0.100	"	"	SJ26028	10/26/05	10/27/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"
B-4-D (B5J0381-09) Soil Sampled: 10/19/05 13:15 Received: 10/19/05 18:45									
Silver	ND	0.0500	mg/l	1	SJ26028	10/26/05	10/27/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	SJ26054	10/26/05	10/31/05	EPA 7470A	
Lead	ND	0.100	"	"	SJ26028	10/26/05	10/27/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"

North Creek Analytical - Bothell

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 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.385.5510 fax 541.382.7380
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
 11/14/05 16:48

TCLP Metals by EPA 1311/6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-5-S (B5J0381-10) Soil Sampled: 10/19/05 13:55 Received: 10/19/05 18:45									
Silver	ND	0.0500	mg/l	1	SJ26028	10/26/05	10/27/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	SJ26054	10/26/05	10/31/05	EPA 7470A	
Lead	ND	0.100	"	"	SJ26028	10/26/05	10/27/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"
B-5-D (B5J0381-11) Soil Sampled: 10/19/05 14:00 Received: 10/19/05 18:45									
Silver	ND	0.0500	mg/l	1	SJ26028	10/26/05	10/27/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	SJ26054	10/26/05	10/31/05	EPA 7470A	
Lead	ND	0.100	"	"	SJ26028	10/26/05	10/27/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"
B-8-S (B5J0381-12) Soil Sampled: 10/19/05 14:25 Received: 10/19/05 18:45									
Silver	ND	0.0500	mg/l	1	SJ26028	10/26/05	10/27/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	SJ26054	10/26/05	10/31/05	EPA 7470A	
Lead	ND	0.100	"	"	SJ26028	10/26/05	10/27/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"

North Creek Analytical - Bothell

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 509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 16:48

TCLP Metals by EPA 1311/6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-8-M (B5J0381-13) Soil Sampled: 10/19/05 14:30 Received: 10/19/05 18:45									
Silver	ND	0.0500	mg/l	1	5J26028	10/26/05	10/27/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	5J26054	10/26/05	10/31/05	EPA 7470A	
Lead	ND	0.100	"	"	5J26028	10/26/05	10/27/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"
B-8-D (B5J0381-14) Soil Sampled: 10/19/05 14:37 Received: 10/19/05 18:45									
Silver	ND	0.0500	mg/l	1	5J26028	10/26/05	10/27/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	5J26054	10/26/05	10/31/05	EPA 7470A	
Lead	ND	0.100	"	"	5J26028	10/26/05	10/27/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"
B-19-S (B5J0381-17) Soil Sampled: 10/19/05 10:45 Received: 10/19/05 18:45									
Silver	ND	0.0500	mg/l	1	5J28013	10/28/05	10/28/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	5J26054	10/26/05	10/31/05	EPA 7470A	
Lead	ND	0.100	"	"	5J28013	10/28/05	10/28/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"

North Creek Analytical - Bothell

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.905.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.333.9210 fax 541.332.7568
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
 11/14/05 16:48

Conventional Chemistry Parameters by APHA/EPA Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-1-S (B5J0381-01) Soil Sampled: 10/19/05 10:30 Received: 10/19/05 18:45									
Ammonia-Nitrogen	ND	6.73	mg/kg as N dry	1	SJ30002	10/29/05	10/29/05	EPA 350.3	
B-1-D (B5J0381-02) Soil Sampled: 10/19/05 10:35 Received: 10/19/05 18:45									
Ammonia-Nitrogen	ND	8.15	mg/kg as N dry	1	SJ30002	10/29/05	10/29/05	EPA 350.3	
B-2-S (B5J0381-03) Soil Sampled: 10/19/05 11:25 Received: 10/19/05 18:45									
Ammonia-Nitrogen	ND	5.69	mg/kg as N dry	1	SJ30002	10/29/05	10/29/05	EPA 350.3	
B-2-D (B5J0381-04) Soil Sampled: 10/19/05 11:27 Received: 10/19/05 18:45									
Ammonia-Nitrogen	ND	7.10	mg/kg as N dry	1	SJ30002	10/29/05	10/29/05	EPA 350.3	
B-3-S (B5J0381-05) Soil Sampled: 10/19/05 12:15 Received: 10/19/05 18:45									
Ammonia-Nitrogen	ND	6.75	mg/kg as N dry	1	SJ30002	10/29/05	10/29/05	EPA 350.3	
B-3-D (B5J0381-06) Soil Sampled: 10/19/05 12:20 Received: 10/19/05 18:45									
Ammonia-Nitrogen	ND	3.74	mg/kg as N dry	1	SJ30002	10/29/05	10/29/05	EPA 350.3	
B-4-S (B5J0381-07) Soil Sampled: 10/19/05 13:05 Received: 10/19/05 18:45									
Ammonia-Nitrogen	ND	6.47	mg/kg as N dry	1	SJ30002	10/29/05	10/29/05	EPA 350.3	
B-4-M (B5J0381-08) Soil Sampled: 10/19/05 13:10 Received: 10/19/05 18:45									
Ammonia-Nitrogen	ND	5.38	mg/kg as N dry	1	SJ30002	10/29/05	10/29/05	EPA 350.3	
B-4-D (B5J0381-09) Soil Sampled: 10/19/05 13:15 Received: 10/19/05 18:45									
Ammonia-Nitrogen	ND	4.37	mg/kg as N dry	1	SJ30002	10/29/05	10/29/05	EPA 350.3	

North Creek Analytical - Bothell

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509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

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1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 16:48

Conventional Chemistry Parameters by APHA/EPA Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-5-S (B5J0381-10) Soil Sampled: 10/19/05 13:55 Received: 10/19/05 18:45									
Ammonia-Nitrogen	ND	4.75	mg/kg as N dry	1	SJ30002	10/29/05	10/29/05	EPA 350.3	
B-5-D (B5J0381-11) Soil Sampled: 10/19/05 14:00 Received: 10/19/05 18:45									
Ammonia-Nitrogen	15.3	4.29	mg/kg as N dry	1	SJ30002	10/29/05	10/29/05	EPA 350.3	
B-8-S (B5J0381-12) Soil Sampled: 10/19/05 14:25 Received: 10/19/05 18:45									
Ammonia-Nitrogen	4.87	4.07	mg/kg as N dry	1	SJ30002	10/29/05	10/29/05	EPA 350.3	
B-8-M (B5J0381-13) Soil Sampled: 10/19/05 14:30 Received: 10/19/05 18:45									
Ammonia-Nitrogen	113	5.59	mg/kg as N dry	1	SJ30002	10/29/05	10/29/05	EPA 350.3	
B-8-D (B5J0381-14) Soil Sampled: 10/19/05 14:37 Received: 10/19/05 18:45									
Ammonia-Nitrogen	214	5.50	mg/kg as N dry	1	SJ30002	10/29/05	10/29/05	EPA 350.3	
COMP-1 (B5J0381-15) Soil Sampled: 10/19/05 15:35 Received: 10/19/05 18:45									
Cyanide (total)	1.16	0.683	mg/kg dry	1	SJ28056	10/28/05	10/28/05	EPA 9010B Mod	
pH	9.31	J	pH Units	"	SJ21065	10/21/05	10/21/05	EPA 9045C	
Sulfide	ND	56.1	mg/kg dry	"	SJ21067	10/21/05	10/21/05	EPA 9030B	
COMP-2 (B5J0381-16) Soil Sampled: 10/19/05 15:55 Received: 10/19/05 18:45									
Cyanide (total)	0.740	0.740	mg/kg dry	1	SJ28056	10/28/05	10/28/05	EPA 9010B Mod	
pH	8.81	J	pH Units	"	SJ21065	10/21/05	10/21/05	EPA 9045C	
Sulfide	ND	58.5	mg/kg dry	"	SJ21067	10/21/05	10/21/05	EPA 9030B	
B-19-S (B5J0381-17) Soil Sampled: 10/19/05 10:45 Received: 10/19/05 18:45									
Ammonia-Nitrogen	ND	4.33	mg/kg as N dry	1	SJ30002	10/29/05	10/29/05	EPA 350.3	

8/11-15-05

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509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.905.9200 fax 503.905.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

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1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 16:48

Anions by EPA Method 300.0

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-1-S (B5J0381-01) Soil Sampled: 10/19/05 10:30 Received: 10/19/05 18:45									
Chloride	ND <i>WJ</i>	5.81	mg/kg dry	1	SJ27053	10/26/05	10/28/05	EPA 300.0	
B-1-D (B5J0381-02) Soil Sampled: 10/19/05 10:35 Received: 10/19/05 18:45									
Chloride	14.0	5.89	mg/kg dry	1	SJ27053	10/26/05	10/28/05	EPA 300.0	
B-2-S (B5J0381-03) Soil Sampled: 10/19/05 11:25 Received: 10/19/05 18:45									
Chloride	523	57.1	mg/kg dry	10	SJ27053	10/26/05	11/01/05	EPA 300.0	
B-2-D (B5J0381-04) Soil Sampled: 10/19/05 11:27 Received: 10/19/05 18:45									
Chloride	32.9	5.85	mg/kg dry	1	SJ27053	10/26/05	10/28/05	EPA 300.0	
B-3-S (B5J0381-05) Soil Sampled: 10/19/05 12:15 Received: 10/19/05 18:45									
Chloride	21.4	6.13	mg/kg dry	1	SJ27053	10/26/05	11/01/05	EPA 300.0	
B-3-D (B5J0381-06) Soil Sampled: 10/19/05 12:20 Received: 10/19/05 18:45									
Chloride	106	8.78	mg/kg dry	2	SJ27053	10/26/05	11/01/05	EPA 300.0	
B-4-S (B5J0381-07) Soil Sampled: 10/19/05 13:05 Received: 10/19/05 18:45									
Chloride	11.6	5.87	mg/kg dry	1	SJ27053	10/26/05	10/28/05	EPA 300.0	
B-4-M (B5J0381-08) Soil Sampled: 10/19/05 13:10 Received: 10/19/05 18:45									
Chloride	39.7	5.70	mg/kg dry	1	SJ27053	10/26/05	11/01/05	EPA 300.0	
B-4-D (B5J0381-09) Soil Sampled: 10/19/05 13:15 Received: 10/19/05 18:45									
Chloride	16.4	5.94	mg/kg dry	1	SJ27053	10/26/05	11/01/05	EPA 300.0	

North Creek Analytical - Bothell

11/15/05
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509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 16:48

Anions by EPA Method 300.0
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-5-S (B5J0381-10) Soil Sampled: 10/19/05 13:55 Received: 10/19/05 18:45									
Chloride	6550	613	mg/kg dry	100	SJ27053	10/26/05	11/01/05	EPA 300.0	
B-5-D (B5J0381-11) Soil Sampled: 10/19/05 14:00 Received: 10/19/05 18:45									
Chloride	104000	10500	mg/kg dry	2000	SJ27053	10/26/05	11/01/05	EPA 300.0	
B-8-S (B5J0381-12) Soil Sampled: 10/19/05 14:25 Received: 10/19/05 18:45									
Chloride	781	507	mg/kg dry	100	SJ27053	10/26/05	11/02/05	EPA 300.0	
B-8-M (B5J0381-13) Soil Sampled: 10/19/05 14:30 Received: 10/19/05 18:45									
Chloride	176000	98600	mg/kg dry	20000	SJ27053	10/26/05	11/02/05	EPA 300.0	
B-8-D (B5J0381-14) Soil Sampled: 10/19/05 14:37 Received: 10/19/05 18:45									
Chloride	186000	22800	mg/kg dry	5000	SJ27053	10/26/05	11/01/05	EPA 300.0	
B-19-S (B5J0381-17) Soil Sampled: 10/19/05 10:45 Received: 10/19/05 18:45									
Chloride	209 <i>J</i>	61.8	mg/kg dry	10	SJ27053	10/26/05	11/01/05	EPA 300.0	

11-15-05

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.0210 fax 541.382.7585
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
 11/14/05 16:48

Physical Parameters by APHA/ASTM/EPA Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-1-S (B5J0381-01) Soil Sampled: 10/19/05 10:30 Received: 10/19/05 18:45									
Dry Weight	66.1	1.00	%	1	SJ27043	10/27/05	10/28/05	BSOPSPL003R08	
B-1-D (B5J0381-02) Soil Sampled: 10/19/05 10:35 Received: 10/19/05 18:45									
Dry Weight	64.4	1.00	%	1	SJ27043	10/27/05	10/28/05	BSOPSPL003R08	
B-2-S (B5J0381-03) Soil Sampled: 10/19/05 11:25 Received: 10/19/05 18:45									
Dry Weight	70.0	1.00	%	1	SJ27043	10/27/05	10/28/05	BSOPSPL003R08	
B-2-D (B5J0381-04) Soil Sampled: 10/19/05 11:27 Received: 10/19/05 18:45									
Dry Weight	68.2	1.00	%	1	SJ27043	10/27/05	10/28/05	BSOPSPL003R08	
B-3-S (B5J0381-05) Soil Sampled: 10/19/05 12:15 Received: 10/19/05 18:45									
Dry Weight	64.3	1.00	%	1	SJ27043	10/27/05	10/28/05	BSOPSPL003R08	
B-3-D (B5J0381-06) Soil Sampled: 10/19/05 12:20 Received: 10/19/05 18:45									
Dry Weight	85.1	1.00	%	1	SJ27043	10/27/05	10/28/05	BSOPSPL003R08	
B-4-S (B5J0381-07) Soil Sampled: 10/19/05 13:05 Received: 10/19/05 18:45									
Dry Weight	67.5	1.00	%	1	SJ27043	10/27/05	10/28/05	BSOPSPL003R08	
B-4-M (B5J0381-08) Soil Sampled: 10/19/05 13:10 Received: 10/19/05 18:45									
Dry Weight	66.4	1.00	%	1	SJ27044	10/27/05	10/28/05	BSOPSPL003R08	
B-4-D (B5J0381-09) Soil Sampled: 10/19/05 13:15 Received: 10/19/05 18:45									
Dry Weight	65.2	1.00	%	1	SJ27044	10/27/05	10/28/05	BSOPSPL003R08	

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 509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
11/14/05 16:48

Physical Parameters by APHA/ASTM/EPA Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-5-S (BSJ0381-10) Soil Sampled: 10/19/05 13:55 Received: 10/19/05 18:45									
Dry Weight	63.0	1.00	%	1	SJ27044	10/27/05	10/28/05	BSOPSPLO03R08	
B-5-D (BSJ0381-11) Soil Sampled: 10/19/05 14:00 Received: 10/19/05 18:45									
Dry Weight	73.7	1.00	%	1	SJ27044	10/27/05	10/28/05	BSOPSPLO03R08	
B-8-S (BSJ0381-12) Soil Sampled: 10/19/05 14:25 Received: 10/19/05 18:45									
Dry Weight	73.6	1.00	%	1	SJ27044	10/27/05	10/28/05	BSOPSPLO03R08	
B-8-M (BSJ0381-13) Soil Sampled: 10/19/05 14:30 Received: 10/19/05 18:45									
Dry Weight	77.0	1.00	%	1	SJ27044	10/27/05	10/28/05	BSOPSPLO03R08	
B-8-D (BSJ0381-14) Soil Sampled: 10/19/05 14:37 Received: 10/19/05 18:45									
Dry Weight	86.3	1.00	%	1	SJ27044	10/27/05	10/28/05	BSOPSPLO03R08	
COMP-1 (BSJ0381-15) Soil Sampled: 10/19/05 15:35 Received: 10/19/05 18:45									
Dry Weight	70.4	1.00	%	1	SJ27044	10/27/05	10/28/05	BSOPSPLO03R08	
COMP-2 (BSJ0381-16) Soil Sampled: 10/19/05 15:55 Received: 10/19/05 18:45									
Dry Weight	67.6	1.00	%	1	SJ27044	10/27/05	10/28/05	BSOPSPLO03R08	
B-19-S (BSJ0381-17) Soil Sampled: 10/19/05 10:45 Received: 10/19/05 18:45									
Dry Weight	64.0	1.00	%	1	SJ27044	10/27/05	10/28/05	BSOPSPLO03R08	

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509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.806.9200 fax 503.806.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9210 fax 541.382.7500
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
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Physical Parameters by APHA/ASTM/EPA Methods

North Creek Analytical - Spokane

Analyte	Reporting									Notes
	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method		
COMP-1 (BSJ0381-15) Soil Sampled: 10/19/05 15:35 Received: 10/19/05 18:45										
Flashpoint	ND	20.0	°C	I	5100242	10/28/05	10/28/05	EPA 1010	F-01	
COMP-2 (BSJ0381-16) Soil Sampled: 10/19/05 15:55 Received: 10/19/05 18:45										
Flashpoint	ND	20.0	°C	I	5100242	10/28/05	10/28/05	EPA 1010	F-01	

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 509.924.9200 fax 509.924.9290
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 503.906.9200 fax 503.906.9210
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 541.383.9310 fax 541.382.7588
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 907.563.9200 fax 907.563.9210

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 1501 4th Ave, Suite 1400
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Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
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Total Metals by EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD Limit	Notes
Batch 5J26067: Prepared 10/26/05 Using EPA 3050B									
Blank (5J26067-BLK1)									
Copper	ND	0.500	mg/kg						
Nickel	ND	0.500	"						
Zinc	ND	5.00	"						
LCS (5J26067-BS1)									
Copper	37.6	0.500	mg/kg	40.0		94.0	80-120		
Nickel	38.4	0.500	"	40.0		96.0	80-120		
Zinc	40.9	5.00	"	40.0		102	80-120		
LCS Dup (5J26067-BSD1)									
Copper	37.8	0.500	mg/kg	40.0		94.5	80-120	0.531	20
Nickel	38.4	0.500	"	40.0		96.0	80-120	0.00	20
Zinc	41.7	5.00	"	40.0		104	80-120	1.94	20
Matrix Spike (5J26067-MS1)									
Nickel	89.5	0.778	mg/kg dry	62.2	34.8	87.9	56-135		
Matrix Spike (5J26067-MS2)									
Copper	1100	7.78	mg/kg dry	62.2	1090	16.1	33-156		Q-03
Zinc	659	77.8	"	62.2	529	209	20-160		Q-03
Matrix Spike Dup (5J26067-MSD1)									
Nickel	91.2	0.778	mg/kg dry	62.2	34.8	90.7	56-135	1.88	30
Matrix Spike Dup (5J26067-MSD2)									
Copper	1070	7.78	mg/kg dry	62.2	1090	-32.2	33-156	2.76	30
Zinc	582	77.8	"	62.2	529	85.2	20-160	12.4	30

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 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.0210 fax 541.382.7558
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
11/14/05 16:48

Total Metals by EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 5J26067: Prepared 10/26/05 Using EPA 3050B										
Post Spike (5J26067-PS1)										
Source: B5J0381-05										
Nickel	0.132		ug/ml	0.100	0.0448	87.2	75-125			
Post Spike (5J26067-PS2)										
Source: B5J0381-05RE1										
Copper	1.55		ug/ml	0.101	1.41	139	75-125			Q-03
Zinc	0.750		"	0.100	0.681	69.0	75-125			Q-03
Batch 5K08025: Prepared 11/08/05 Using EPA 3050B										
Blank (5K08025-BLK1)										
Potassium	ND	15.0	mg/kg							
Sodium	ND	15.0	"							
LCS (5K08025-BS1)										
Potassium	554	15.0	mg/kg	500		111	80-120			
Sodium	279	15.0	"	250		112	80-120			
LCS Dup (5K08025-BSD1)										
Potassium	563	15.0	mg/kg	500		113	80-120	1.61	20	
Sodium	273	15.0	"	250		109	80-120	2.17	20	
Matrix Spike (5K08025-MS1)										
Source: B5J0381-05RE1										
Potassium	6350	23.3	mg/kg dry	778	4110	288	70-130			Q-03
Sodium	5420	23.3	"	389	4590	213	70-130			Q-03
Matrix Spike Dup (5K08025-MSD1)										
Source: B5J0381-05RE1										
Potassium	6240	23.3	mg/kg dry	778	4110	274	70-130	1.75	30	Q-03
Sodium	6020	23.3	"	389	4590	368	70-130	10.5	30	Q-03

North Creek Analytical - Bothell

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509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

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1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 16:48

Total Metals by EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 5K08025: Prepared 11/08/05 Using EPA 3050B

Post Spike (5K08025-PS1)

Source: B5J0381-05RE1

Potassium	59.9	ug/ml	10.0	52.9	70.0	75-125				Q-03
Sodium	62.2	"	5.00	59.0	64.0	75-125				Q-03

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Portland	9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210
Bend	20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7388
Anchorage	2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119 907.563.9200 fax 907.563.9210

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Project Number: 33757742
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TCLP Metals by EPA 1311/6000/7000 Series Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch SJ26011: Prepared 10/26/05 Using EPA 3010A										
Blank (SJ26011-BLK1)										
Silver	ND	0.0500	mg/l							
Arsenic	ND	0.100	"							
Barium	ND	1.00	"							
Cadmium	ND	0.0500	"							
Chromium	ND	0.100	"							
Lead	ND	0.100	"							
Selenium	ND	0.100	"							
LCS (SJ26011-BS1)										
Silver	10.2	0.0500	mg/l	10.0	102	80-120				
Arsenic	50.6	0.100	"	50.0	101	80-120				
Barium	49.2	1.00	"	50.0	98.4	80-120				
Cadmium	50.4	0.0500	"	50.0	101	80-120				
Chromium	50.1	0.100	"	50.0	100	80-120				
Lead	51.7	0.100	"	50.0	103	80-120				
Selenium	51.4	0.100	"	50.0	103	80-120				
LCS Dup (SJ26011-BSD1)										
Silver	9.91	0.0500	mg/l	10.0	99.1	80-120	2.88	35		
Arsenic	50.0	0.100	"	50.0	100	80-120	1.19	20		
Barium	47.2	1.00	"	50.0	94.4	80-120	4.15	20		
Cadmium	49.6	0.0500	"	50.0	99.2	80-120	1.60	20		
Chromium	48.9	0.100	"	50.0	97.8	80-120	2.42	20		
Lead	50.5	0.100	"	50.0	101	80-120	2.35	20		
Selenium	50.5	0.100	"	50.0	101	80-120	1.77	20		
Matrix Spike (SJ26011-MS1)										
Source: B5J0381-05										
Silver	9.73	0.0500	mg/l	10.0	ND	97.3	75-125			
Arsenic	49.6	0.100	"	50.0	ND	99.2	80-120			
Barium	46.8	1.00	"	50.0	0.537	92.5	80-120			
Cadmium	49.0	0.0500	"	50.0	ND	98.0	80-120			
Chromium	48.3	0.100	"	50.0	0.0440	96.5	80-120			
Lead	49.9	0.100	"	50.0	ND	99.8	80-120			
Selenium	50.2	0.100	"	50.0	0.0550	100	80-120			

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 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

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 Project Number: 33757742
 Project Manager: Vance Atkins

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TCLP Metals by EPA 1311/6000/7000 Series Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 5J26011: Prepared 10/26/05 Using EPA 3010A

Matrix Spike Dup (5J26011-MSD1)							Source: BSJ0381-05			
Silver	10.1	0.0500	mg/l	10.0	ND	101	75-125	3.73	35	
Arsenic	51.7	0.100	"	50.0	ND	103	80-120	4.15	20	
Barium	48.3	1.00	"	50.0	0.537	95.5	80-120	3.15	20	
Cadmium	51.1	0.0500	"	50.0	ND	102	80-120	4.20	20	
Chromium	50.0	0.100	"	50.0	0.0440	99.9	80-120	3.46	20	
Lead	52.1	0.100	"	50.0	ND	104	80-120	4.31	20	
Selenium	52.3	0.100	"	50.0	0.0550	104	80-120	4.10	20	

Batch 5J26028: Prepared 10/26/05 Using EPA 3010A

Blank (5J26028-BLK1)						
Silver	ND	0.0500	mg/l			
Arsenic	ND	0.100	"			
Barium	ND	1.00	"			
Cadmium	ND	0.0500	"			
Chromium	ND	0.100	"			
Lead	ND	0.100	"			
Selenium	ND	0.100	"			

LCS (5J26028-BS1)

Silver	9.99	0.0500	mg/l	10.0	99.9	80-120
Arsenic	49.4	0.100	"	50.0	98.8	80-120
Barium	47.6	1.00	"	50.0	95.2	80-120
Cadmium	49.8	0.0500	"	50.0	99.6	80-120
Chromium	49.0	0.100	"	50.0	98.0	80-120
Lead	51.1	0.100	"	50.0	102	80-120
Selenium	50.4	0.100	"	50.0	101	80-120

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.0310 fax 541.382.7555
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
 11/14/05 16:48

TCLP Metals by EPA 1311/6000/7000 Series Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 5J26028: Prepared 10/26/05 Using EPA 3010A										
LCS Dup (SJ26028-BSD1)										
Silver	10.2	0.0500	mg/l	10.0	102	80-120	2.08	35		
Arsenic	52.0	0.100	"	50.0	104	80-120	5.13	20		
Barium	48.9	1.00	"	50.0	97.8	80-120	2.69	20		
Cadmium	52.1	0.0500	"	50.0	104	80-120	4.51	20		
Chromium	50.9	0.100	"	50.0	102	80-120	3.80	20		
Lead	53.6	0.100	"	50.0	107	80-120	4.78	20		
Selenium	52.7	0.100	"	50.0	105	80-120	4.46	20		
Matrix Spike (5J26028-MS1)										
Silver	10.4	0.0500	mg/l	10.0	ND	104	75-125			
Arsenic	52.6	0.100	"	50.0	ND	105	80-120			
Barium	49.6	1.00	"	50.0	0.215	98.8	80-120			
Cadmium	52.6	0.0500	"	50.0	0.0100	105	80-120			
Chromium	51.5	0.100	"	50.0	0.0610	103	80-120			
Lead	53.8	0.100	"	50.0	ND	108	80-120			
Selenium	53.2	0.100	"	50.0	ND	106	80-120			
Matrix Spike Dup (5J26028-MSD1)										
Silver	10.5	0.0500	mg/l	10.0	ND	105	75-125	0.957	35	
Arsenic	53.1	0.100	"	50.0	ND	106	80-120	0.946	20	
Barium	49.9	1.00	"	50.0	0.215	99.4	80-120	0.603	20	
Cadmium	53.0	0.0500	"	50.0	0.0100	106	80-120	0.758	20	
Chromium	51.7	0.100	"	50.0	0.0610	103	80-120	0.388	20	
Lead	54.1	0.100	"	50.0	ND	108	80-120	0.556	20	
Selenium	53.4	0.100	"	50.0	ND	107	80-120	0.375	20	
Batch 5J26053: Prepared 10/26/05 Using EPA 7470A										
Blank (5J26053-BLK1)										
Mercury	ND	0.00100	mg/l							

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1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
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Reported:
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TCLP Metals by EPA 1311/6000/7000 Series Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 5J26053: Prepared 10/26/05 Using EPA 7470A

Blank (5J26053-BLK2)

Mercury	ND	0.00100	mg/l
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Blank (5J26053-BLK3)

Mercury	ND	0.00100	mg/l
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LCS (5J26053-BS1)

Mercury	0.00525	0.00100	mg/l	0.00500	105	80-120
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LCS Dup (5J26053-BSD1)

Mercury	0.00538	0.00100	mg/l	0.00500	108	80-120	2.45	20
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Matrix Spike (5J26053-MS1)

Source: B5J0381-05

Mercury	0.0135	0.00250	mg/l	0.0125	ND	108	75-125
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Matrix Spike Dup (5J26053-MSD1)

Source: B5J0381-05

Mercury	0.0136	0.00250	mg/l	0.0125	ND	109	75-125	0.738	20
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Batch 5J26054: Prepared 10/26/05 Using EPA 7470A

Blank (5J26054-BLK1)

Mercury	ND	0.00100	mg/l
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LCS (5J26054-BS1)

Mercury	0.00483	0.00100	mg/l	0.00500	96.6	80-120
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LCS Dup (5J26054-BSD1)

Mercury	0.00523	0.00100	mg/l	0.00500	105	80-120	7.95	20
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 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7556
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
 11/14/05 16:48

TCLP Metals by EPA 1311/6000/7000 Series Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5J26054: Prepared 10/26/05 Using EPA 7470A										
Matrix Spike (5J26054-MS1)										
Mercury	0.0122	0.00250	mg/l	0.0125	ND	97.6	75-125			
Matrix Spike Dup (5J26054-MSD1)										
Mercury	0.0129	0.00250	mg/l	0.0125	ND	103	75-125	5.58	20	
Batch 5J28013: Prepared 10/28/05 Using EPA 3010A										
Blank (5J28013-BLK1)										
Silver	ND	0.0500	mg/l							
Arsenic	ND	0.100	"							
Barium	ND	1.00	"							
Cadmium	ND	0.0500	"							
Chromium	ND	0.100	"							
Lead	ND	0.100	"							
Selenium	ND	0.100	"							
LCS (5J28013-BS1)										
Silver	0.940	0.0500	mg/l	1.00		94.0	80-120			
Arsenic	4.78	0.100	"	5.00		95.6	80-120			
Barium	4.58	1.00	"	5.00		91.6	80-120			
Cadmium	4.77	0.0500	"	5.00		95.4	80-120			
Chromium	4.70	0.100	"	5.00		94.0	80-120			
Lead	4.82	0.100	"	5.00		96.4	80-120			
Selenium	4.72	0.100	"	5.00		94.4	80-120			
LCS Dup (5J28013-BSD1)										
Silver	0.958	0.0500	mg/l	1.00		95.8	80-120	1.90	35	
Arsenic	4.89	0.100	"	5.00		97.8	80-120	2.28	20	
Barium	4.65	1.00	"	5.00		93.0	80-120	1.52	20	
Cadmium	4.88	0.0500	"	5.00		97.6	80-120	2.28	20	
Chromium	4.80	0.100	"	5.00		96.0	80-120	2.11	20	
Lead	4.97	0.100	"	5.00		99.4	80-120	3.06	20	
Selenium	4.86	0.100	"	5.00		97.2	80-120	2.92	20	

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 509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
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TCLP Metals by EPA 1311/6000/7000 Series Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 5J28013: Prepared 10/28/05 Using EPA 3010A

Matrix Spike (5J28013-MS1)				Source: B5J0465-10						
Silver	0.963	0.0500	mg/l	1.00	ND	96.3	75-125			
Arsenic	4.92	0.100	"	5.00	ND	98.4	80-120			
Barium	4.66	1.00	"	5.00	0.0219	92.8	80-120			
Cadmium	4.86	0.0500	"	5.00	ND	97.2	80-120			
Chromium	4.79	0.100	"	5.00	ND	95.8	80-120			
Lead	4.96	0.100	"	5.00	ND	99.2	80-120			
Selenium	4.87	0.100	"	5.00	ND	97.4	80-120			
Matrix Spike Dup (5J28013-MSD1)				Source: B5J0465-10						
Silver	0.949	0.0500	mg/l	1.00	ND	94.9	75-125	1.46	35	
Arsenic	4.86	0.100	"	5.00	ND	97.2	80-120	1.23	20	
Barium	4.60	1.00	"	5.00	0.0219	91.6	80-120	1.30	20	
Cadmium	4.79	0.0500	"	5.00	ND	95.8	80-120	1.45	20	
Chromium	4.71	0.100	"	5.00	ND	94.2	80-120	1.68	20	
Lead	4.90	0.100	"	5.00	ND	98.0	80-120	1.22	20	
Selenium	4.86	0.100	"	5.00	ND	97.2	80-120	0.206	20	

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 509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7756
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
 11/14/05 16:48

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 5J21065: Prepared 10/21/05 Using General Preparation										
Duplicate (SJ21065-DUP1)										
pH	9.30		pH Units		9.31			0.107	10	
Batch 5J21067: Prepared 10/21/05 Using General Preparation										
Blank (SJ21067-BLK1)										
Sulfide	ND	39.2	mg/kg							
LCS (SJ21067-BS1)										
Sulfide	85.7	38.8	mg/kg	98.6		86.9	75-125			
LCS (SJ21067-BS2)										
Sulfide	89.1	39.1	mg/kg	99.4		89.6	75-125			
LCS (SJ21067-BS3)										
Sulfide	84.0	38.9	mg/kg	98.9		84.9	75-125			
LCS Dup (SJ21067-BSD1)										
Sulfide	87.7	38.0	mg/kg	96.5		90.9	75-125	2.31	25	
Duplicate (SJ21067-DUP1)										
Sulfide	ND	56.4	mg/kg dry		ND			NA	30	
Matrix Spike (SJ21067-MS1)										
Sulfide	45.3	55.9	mg/kg dry	142	ND	31.9	20-120			
Batch 5J28056: Prepared 10/28/05 Using General Preparation										
Blank (SJ28056-BLK1)										
Cyanide (total)	ND	0.500	mg/kg							

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 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
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 541.383.9310 fax 541.382.7588
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 1501 4th Ave, Suite 1400
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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit	Notes
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Batch 5J28056: Prepared 10/28/05 Using General Preparation

Blank (5J28056-BLK2)

Cyanide (total) ND 0.500 mg/kg

LCS (5J28056-BS1)

Cyanide (total) 5.10 0.500 mg/kg 4.97 103 85-115

LCS (5J28056-BS2)

Cyanide (total) 4.95 0.500 mg/kg 4.97 99.6 85-115

LCS Dup (5J28056-BSD1)

Cyanide (total) 5.00 0.500 mg/kg 4.97 101 85-115 1.98 30

Duplicate (5J28056-DUP1)

Source: B5J0381-15

Cyanide (total) 1.16 0.683 mg/kg dry 1.16 0.00 46

Matrix Spike (5J28056-MS1)

Source: B5J0381-15

Cyanide (total) 7.30 0.664 mg/kg dry 6.60 1.16 93.0 27-138

Batch 5J30002: Prepared 10/29/05 Using General Preparation

Blank (5J30002-BLK1)

Ammonia-Nitrogen ND 5.00 mg/kg as N

LCS (5J30002-BS1)

Ammonia-Nitrogen 245 5.00 mg/kg as N 250 98.0 75-125

LCS Dup (5J30002-BSD1)

Ammonia-Nitrogen 243 5.00 mg/kg as N 250 97.2 75-125 0.820 25

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509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9210 fax 541.382.7320
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

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Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 16:48

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 5J30002: Prepared 10/29/05 Using General Preparation

Duplicate (5J30002-DUP1) Source: B5J0381-05

Ammonia-Nitrogen	2.24	7.26 mg/kg as N dry	2.24	0.00	30
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Matrix Spike (5J30002-MS1) Source: B5J0381-05

Ammonia-Nitrogen	240	5.28 mg/kg as N dry	264	2.24	90.1	59-127
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Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

URS Corporation
1501 4th Ave, Suite 1400
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Project Manager: Vance Atkins

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Anions by EPA Method 300.0 - Quality Control

North Creek Analytical - Bothell

Analyst	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 5J27053: Prepared 10/26/05 Using General Preparation										
Blank (SJ27053-BLK1)										
Chloride	ND	4.00	mg/kg							
LCS (SJ27053-BS1)										
Chloride	21.0	4.00	mg/kg	20.0		105	90-110			
LCS Dup (SJ27053-BSD1)										
Chloride	21.3	4.00	mg/kg	20.0		106	90-110	1.42	10	
Matrix Spike (SJ27053-MS1)										
Chloride	59.8	12.2	mg/kg dry	30.5	21.4	126	62-157			
Matrix Spike Dup (SJ27053-MSD1)										
Chloride	53.0	6.08	mg/kg dry	30.4	21.4	104	62-157	12.1	25	

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509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9210 fax 541.382.7500
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

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1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project: Maralco
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Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch SJ27043: Prepared 10/27/05 Using Dry Weight

Blank (SJ27043-BLK1)

Dry Weight	99.9	1.00	%
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Batch SJ27044: Prepared 10/27/05 Using Dry Weight

Blank (SJ27044-BLK1)

Dry Weight	100	1.00	%
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509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
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Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

North Creek Analytical - Spokane

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 5100242: Prepared 10/28/05 Using Wet Chem

Duplicate (5100242-DUP1)

Source: S5J0077-01

Flashpoint	ND	20.0	°C	ND	NA	10	F-01
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509.924.9200 Fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7556
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 16:48

Notes and Definitions

- F-01 No flash detected up to 100 °C
- Q-03 The percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte already present in the sample.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Gerdes, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

Page 34 of 34



11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244

425-420-9200

FAX 420-9210

11922 E 1st Ave, Spokane, WA 99206-5302

509-924-9200

FAX 924-9290

9405 SW Nimbus Ave, Beaverton, OR 97008-7145

503-906-9200

FAX 906-9210

20332 Empire Ave, Ste F1, Bend, OR 97701-5712

541-382-310

FAX 382-7588

2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

907-563-9200

FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: 6510381

NCA CLIENT: URS Corporation
 REPORT TO: Vance Atkins
 ADDRESS: 1501 4th Ave, Suite 1400
 Seattle WA 98101
 PHONE: 206-438-2012 FAX: 206-438-2699

PROJECT NAME: Navalco

PROJECT NUMBER: 33757742

SAMPLED BY: Matt Hommeyer

INVOICE TO: URS

P.O. NUMBER: 33757742.00001

TURNAROUND REQUEST

In Business Days *

8	7	6	5	4	3	2	1	<1
STO								

Organic & Inorganic Analyses

5	4	3	2	1	<1
STO	STO	STO	STO	STO	STO

Petroleum Hydrocarbon Analyses

OTHER

Specify:

* Turnaround request less than needed may incur Rush Charge.

PRESERVATIVE

REQUESTED ANALYSES

1. TBT (9000)	2. TBT (1000)	3. TBT (100)	4. TBT (10)	5. TBT (1)	6. TBT (0.1)	7. TBT (0.01)	8. TBT (0.001)	9. TBT (0.0001)	10. TBT (0.00001)
11. PCB (9000)	12. PCB (1000)	13. PCB (100)	14. PCB (10)	15. PCB (1)	16. PCB (0.1)	17. PCB (0.01)	18. PCB (0.001)	19. PCB (0.0001)	20. PCB (0.00001)
21. DDT (9000)	22. DDT (1000)	23. DDT (100)	24. DDT (10)	25. DDT (1)	26. DDT (0.1)	27. DDT (0.01)	28. DDT (0.001)	29. DDT (0.0001)	30. DDT (0.00001)
31. Mirex (9000)	32. Mirex (1000)	33. Mirex (100)	34. Mirex (10)	35. Mirex (1)	36. Mirex (0.1)	37. Mirex (0.01)	38. Mirex (0.001)	39. Mirex (0.0001)	40. Mirex (0.00001)
41. Hg (9000)	42. Hg (1000)	43. Hg (100)	44. Hg (10)	45. Hg (1)	46. Hg (0.1)	47. Hg (0.01)	48. Hg (0.001)	49. Hg (0.0001)	50. Hg (0.00001)
51. As (9000)	52. As (1000)	53. As (100)	54. As (10)	55. As (1)	56. As (0.1)	57. As (0.01)	58. As (0.001)	59. As (0.0001)	60. As (0.00001)
61. Cd (9000)	62. Cd (1000)	63. Cd (100)	64. Cd (10)	65. Cd (1)	66. Cd (0.1)	67. Cd (0.01)	68. Cd (0.001)	69. Cd (0.0001)	70. Cd (0.00001)
71. Pb (9000)	72. Pb (1000)	73. Pb (100)	74. Pb (10)	75. Pb (1)	76. Pb (0.1)	77. Pb (0.01)	78. Pb (0.001)	79. Pb (0.0001)	80. Pb (0.00001)
81. Ni (9000)	82. Ni (1000)	83. Ni (100)	84. Ni (10)	85. Ni (1)	86. Ni (0.1)	87. Ni (0.01)	88. Ni (0.001)	89. Ni (0.0001)	90. Ni (0.00001)
91. Cu (9000)	92. Cu (1000)	93. Cu (100)	94. Cu (10)	95. Cu (1)	96. Cu (0.1)	97. Cu (0.01)	98. Cu (0.001)	99. Cu (0.0001)	100. Cu (0.00001)
101. Zn (9000)	102. Zn (1000)	103. Zn (100)	104. Zn (10)	105. Zn (1)	106. Zn (0.1)	107. Zn (0.01)	108. Zn (0.001)	109. Zn (0.0001)	110. Zn (0.00001)
111. Na (9000)	112. Na (1000)	113. Na (100)	114. Na (10)	115. Na (1)	116. Na (0.1)	117. Na (0.01)	118. Na (0.001)	119. Na (0.0001)	120. Na (0.00001)
121. K (9000)	122. K (1000)	123. K (100)	124. K (10)	125. K (1)	126. K (0.1)	127. K (0.01)	128. K (0.001)	129. K (0.0001)	130. K (0.00001)

| CLIENT SAMPLE IDENTIFICATION | SAMPLING DATE/TIME | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523 | 524 | 525 | 526 | 527 | 528 | 529 | 530 | 531 | 532 | 533 | 534 | 535 | 536 | 537 | 538 | 539 | 540 | 541 | 542 | 543 | 544 | 545 | 546 | 547 | 548 | 549 | 550 | 551 | 552 | 553 | 554 | 555 | 556 | 557 | 558 | 559 | 560 | 561 | 562 | 563 | 564 | 565 | 566 | 567 | 568 | 569 | 570 | 571 | 572 | 573 | 574 | 575 | 576 | 577 | 578 | 579 | 580 | 581 | 582 | 583 | 584 | 585 | 586 | 587 | 588 | 589 | 590 | 591 | 592 | 593 | 594 | 595 | 596 | 597 | 598 | 599 | 600 | 601 | 602 | 603 | 604 | 605 | 606 | 607 | 608 | 609 | 610 | 611 | 612 | 613 | 614 | 615 | 616 | 617 | 618 | 619 | 620 | 621 | 622 | 623 | 624 | 625 | 626 | 627 | 628 | 629 | 630 | 631 | 632 | 633 | 634 | 635 | 636 | 637 | 638 | 639 | 640 | 641 | 642 | 643 | 644 | 645 | 646 | 647 | 648 | 649 | 650 | 651 | 652 | 653 | 654 | 655 | 656 | 657 | 658 | 659 | 660 | 661 | 662 | 663 | 664 | 665 | 666 | 667 | 668 | 669 | 670 | 671 | 672 | 673 | 674 | 675 | 676 | 677 | 678 | 679 | 680 | 681 | 682 | 683 | 684 | 685 | 686 | 687 | 688 | 689 | 690 | 691 | 692 | 693 | 694 | 695 | 696 | 697 | 698 | 699 | 700 | 701 | 702 | 703 | 704 | 705 | 706 | 707 | 708 | 709 | 710 | 711 | 712 | 713 | 714 | 715 | 716 | 717 | 718 | 719 | 720 | 721 | 722 | 723 | 724 | 725 | 726 | 727 | 728 | 729 | 730 | 731 | 732 | 733 | 734 | 735 | 736 | 737 | 738 | 739 | 740 | 741 | 742 | 743 | 744 | 745 | 746 | 747 | 748 | 749 | 750 | 751 | 752 | 753 | 754 | 755 | 756 | 757 | 758 | 759 | 760 | 761 | 762 | 763 | 764 | 765 | 766 | 767 | 768 | 769 | 770 | 771 | 772 | 773 | 774 | 775 | 776 | 777 | 778 | 779 | 780 | 781 | 782 | 783 | 784 | 785 | 786 | 787 | 788 | 789 | 790 | 791 | 792 | 793 | 794 | 795 | 796 | 797 | 798 | 799 | 800 | 801 | 802 | 803 | 804 | 805 | 806 | 807 | 808 | 809 | 810 | 811 | 812 | 813 | 814 | 815 | 816 | 817 | 818 | 819 | 820 | 821 | 822 | 823 | 824 | 825 | 826 | 827 | 828 | 829 | 830 | 831 | 832 | 833 | 834 | 835 | 836 | 837 | 838 | 839 | 840 | 841 | 842 | 843 | 844 | 845 | 846 | 847 | 848 | 849 | 850 | 851 | 852 | 853 | 854 | 855 | 856 | 857 | 858 | 859 | 860 | 861 | 862 | 863 | 864 | 865 | 866 | 867 | 868 | 869 | 870 | 871 | 872 | 873 | 874 | 875 | 876 | 877 | 878 | 879 | 880 | 881 | 882 | 883 | 884 | 885 | 886 | 887 | 888 | 889 | 890 | 891 | 892 | 893 | 894 | 895 | 896 | 897 | 898 | 899 | 900 | 901 | 902 | 903 | 904 | 905 | 906 | 907 | 908 | 909 | 910 | 911 | 912 | 913 | 914 | 915 | 916 | 917 | 918 | 919 | 920 | 921 | 922 | 923 | 924 | 925 | 926 | 927 | 928 | 929 |<th
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |



11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210 X
 11922 E 1st Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
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 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #:

NCA CLIENT: URS Corporation		INVOICE TO: URS		TURNAROUND REQUEST															
REPORT TO: Vance Atkins				In Business Days *															
ADDRESS: 1501 4th Ave, Su.B. 1400 Seattle, WA 98101				<input checked="" type="checkbox"/> 0	<input type="checkbox"/> 1														
PHONE: 206-438-2012 FAX: 206-438-2697		P.O. NUMBER: 3375 7742.000001		<input type="checkbox"/> 2	<input type="checkbox"/> 3														
PROJECT NAME: Maralco		PRESERVATIVE		<input type="checkbox"/> 4	<input type="checkbox"/> 5														
PROJECT NUMBER: 33757742		REQUESTED ANALYSES		<input type="checkbox"/> 6	<input type="checkbox"/> 7														
SAMPLED BY: Matt Hommeyer				<input type="checkbox"/> 8	<input type="checkbox"/> 9														
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	TOTAL ALKALI (Na^+) (K^+)	TOTAL ALKALINE EARTH (Ca^{2+} , Mg^{2+})	AMMONIA (NH_4^+)	TOTAL NITROGEN (NO_3^- , NO_2^-)	CHLORIDE (Cl^-)	CHLORINE (Cl_2)	FLUORIDE (F^-)	KILO BICARBONATE (HCO_3^-)	PART BICARBONATE (HCO_3^-)	PART BICARBONATE (HCO_3^-)	pH (9045)	ALKALINE EARTH (Ca^{2+} , Mg^{2+}) TOTAL ALKALI (Na^+ , K^+)	ALKALINE EARTH (Ca^{2+} , Mg^{2+}) TOTAL ALKALI (Na^+ , K^+)	ALKALINE EARTH (Ca^{2+} , Mg^{2+}) TOTAL ALKALI (Na^+ , K^+)	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1 B-5-D	10/19/05 1400	X	X	X												5	6	5-10	11
2 B-8-S			X	X	X											5	6	1-5	12
3 B-8-m			X	X	X											5	6	5-9	13
4 B-8-D			X	X	X											5	6	9-14	14
5 comp-1												X	X	X		5	6	1-10	15
6 comp-2												X	X	X		5	6	1-11	16
7 B-19-S			X	X	X											5	6	0-4	17
8																			
9																			
10																			
RELEASED BY: <u>Matt Hommeyer</u>				DATE: 10-19-05 TIME: 1845				RECEIVED BY: <u>John Hollers</u>				DATE: 10/19/05 TIME: 1845							
PRINT NAME: Matt Hommeyer FIRM: URS								PRINT NAME: John Hollers FIRM: NCA											
RELEASED BY:				DATE:				RECEIVED BY:				DATE:							
PRINT NAME: FIRM: TIME:								PRINT NAME: FIRM: TIME:											
ADDITIONAL REMARKS: call Vance Atkins 206-619-5857 w/ questions hold bioassays (Ecology method 80-12) pending results of other analyses w/o																TEMP: 16.0°C w/o	PAGE OF		
COC REV 09/04																			
* TOTAL METALS = Cu, Zn, Na, K, Ni																			

SUBCONTRACT ORDER
North Creek Analytical - Bothell

B5J0381

S5J0132

SENDING LABORATORY:

North Creek Analytical - Bothell
11720 North Creek Parkway North, Suite 400
Bothell, WA 98011-8223
Phone: (425) 420-9200
Fax: (425) 420-9210
Project Manager: Jeff Gerdes

RECEIVING LABORATORY:

North Creek Analytical - Spokane
11922 E 1st Ave
Spokane, WA/USA 99206
Phone :509-924-9200
Fax: 509-924-9290

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: B5J0381-15	Soil	Sampled: 10/19/05 15:35	[REDACTED]	
Ignitability-1010	11/02/05 17:00	11/16/05 15:35		Sub contract to Spokane.
<i>Containers Supplied:</i> 4 oz. jar (A)				
Sample ID: B5J0381-16	Soil	Sampled: 10/19/05 15:55	[REDACTED]	
Ignitability-1010	11/02/05 17:00	11/16/05 15:55		Sub contract to Spokane.
<i>Containers Supplied:</i> 4 oz. jar (A)				

Released By

Date

Received By

Date

Cathy Gamble

10/20/05

Jeff Gerdes

10/21/05

Rida 332

Released By

Date

Received By

Date



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9200 fax 425.420.9210
Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 17:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-12-S	BSJ0465-01	Soil	10/21/05 07:55	10/21/05 15:00
B-12-M	BSJ0465-02	Soil	10/21/05 08:00	10/21/05 15:00
B-12-D	BSJ0465-03	Soil	10/21/05 08:05	10/21/05 15:00
B-13-S	BSJ0465-04	Soil	10/21/05 08:30	10/21/05 15:00
B-13-D	BSJ0465-05	Soil	10/21/05 08:35	10/21/05 15:00
B-14-S	BSJ0465-06	Soil	10/21/05 08:45	10/21/05 15:00
B-14-D	BSJ0465-07	Soil	10/21/05 08:50	10/21/05 15:00
B-15-S	BSJ0465-08	Soil	10/21/05 09:00	10/21/05 15:00
B-15-D	BSJ0465-09	Soil	10/21/05 09:05	10/21/05 15:00
B-18-S	BSJ0465-10	Soil	10/21/05 09:20	10/21/05 15:00
B-17-S	BSJ0465-11	Soil	10/21/05 09:35	10/21/05 15:00
B-17-M	BSJ0465-12	Soil	10/21/05 09:40	10/21/05 15:00
B-17-D	BSJ0465-13	Soil	10/21/05 09:45	10/21/05 15:00
B-16-S	BSJ0465-14	Soil	10/21/05 10:05	10/21/05 15:00
B-16-M	BSJ0465-15	Soil	10/21/05 10:10	10/21/05 15:00
B-16-D	BSJ0465-16	Soil	10/21/05 10:15	10/21/05 15:00
B-21-S	BSJ0465-17	Soil	10/21/05 10:30	10/21/05 15:00
COMP-6	BSJ0465-18	Soil	10/21/05 12:55	10/21/05 15:00
COMP-7	BSJ0465-19	Soil	10/21/05 13:00	10/21/05 15:00

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425.420.9200 fax 425.420.9210
Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.8810 fax 541.382.7580
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

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1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 17:25

Total Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-12-S (B5J0465-01) Soil Sampled: 10/21/05 07:55 Received: 10/21/05 15:00									
Nickel	80.2	0.620	mg/kg dry	1	SJ26068	10/26/05	11/01/05	EPA 6020	
B-12-S (B5J0465-01RE1) Soil Sampled: 10/21/05 07:55 Received: 10/21/05 15:00									
Copper	3210	31.0	mg/kg dry	50	SJ26068	10/26/05	11/08/05	EPA 6020	
Potassium	29600	2190	"	100	SK08027	11/08/05	11/12/05	EPA 6010B	
Sodium	17100	2190	"	"	"	"	"	"	"
Zinc	3470	310	"	50	SJ26068	10/26/05	11/08/05	EPA 6020	
B-12-M (B5J0465-02) Soil Sampled: 10/21/05 08:00 Received: 10/21/05 15:00									
Nickel	57.9	0.661	mg/kg dry	1	SJ26068	10/26/05	11/01/05	EPA 6020	
B-12-M (B5J0465-02RE1) Soil Sampled: 10/21/05 08:00 Received: 10/21/05 15:00									
Copper	1930	6.61	mg/kg dry	10	SJ26068	10/26/05	11/08/05	EPA 6020	
Potassium	31600	2310	"	100	SK08027	11/08/05	11/12/05	EPA 6010B	
Sodium	15100	2310	"	"	"	"	"	"	"
Zinc	1650	66.1	"	10	SJ26068	10/26/05	11/08/05	EPA 6020	
B-12-D (B5J0465-03) Soil Sampled: 10/21/05 08:05 Received: 10/21/05 15:00									
Nickel	145	0.799	mg/kg dry	1	SJ26068	10/26/05	11/01/05	EPA 6020	
B-12-D (B5J0465-03RE1) Soil Sampled: 10/21/05 08:05 Received: 10/21/05 15:00									
Copper	2950	16.0	mg/kg dry	20	SJ26068	10/26/05	11/08/05	EPA 6020	
Potassium	128000	2090	"	100	SK08027	11/08/05	11/12/05	EPA 6010B	
Sodium	38400	2090	"	"	"	"	"	"	"
Zinc	2150	160	"	20	SJ26068	10/26/05	11/08/05	EPA 6020	

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 509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
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Total Metals by EPA 6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-13-S (B5J0465-04) Soil Sampled: 10/21/05 08:30 Received: 10/21/05 15:00									
Nickel	40.9	0.517	mg/kg dry	1	5J26068	10/26/05	11/01/05	EPA 6020	
B-13-S (B5J0465-04RE1) Soil Sampled: 10/21/05 08:30 Received: 10/21/05 15:00									
Copper	1360	5.17	mg/kg dry	10	5J26068	10/26/05	11/08/05	EPA 6020	
Potassium	31400	1650	"	100	5K08027	11/08/05	11/12/05	EPA 6010B	
Sodium	19200	1650	"	"	"	"	"	"	"
Zinc	934	51.7	"	10	5J26068	10/26/05	11/08/05	EPA 6020	
B-13-D (B5J0465-05) Soil Sampled: 10/21/05 08:35 Received: 10/21/05 15:00									
Nickel	64.0	0.530	mg/kg dry	1	5J26068	10/26/05	11/01/05	EPA 6020	
B-13-D (B5J0465-05RE1) Soil Sampled: 10/21/05 08:35 Received: 10/21/05 15:00									
Copper	1340	5.30	mg/kg dry	10	5J26068	10/26/05	11/08/05	EPA 6020	
Potassium	114000	1580	"	100	5K08027	11/08/05	11/12/05	EPA 6010B	
Sodium	42000	1580	"	"	"	"	"	"	"
Zinc	1400	53.0	"	10	5J26068	10/26/05	11/08/05	EPA 6020	
B-14-S (B5J0465-06) Soil Sampled: 10/21/05 08:45 Received: 10/21/05 15:00									
Nickel	55.9	0.657	mg/kg dry	1	5J26068	10/26/05	11/01/05	EPA 6020	
B-14-S (B5J0465-06RE1) Soil Sampled: 10/21/05 08:45 Received: 10/21/05 15:00									
Copper	1490	6.57	mg/kg dry	10	5J26068	10/26/05	11/08/05	EPA 6020	
Potassium	27100	2100	"	100	5K08027	11/08/05	11/12/05	EPA 6010B	
Sodium	15000	2100	"	"	"	"	"	"	"
Zinc	1000	65.7	"	10	5J26068	10/26/05	11/08/05	EPA 6020	

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 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.5310 fax 541.382.7588
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

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 Project Number: 33757742
 Project Manager: Vance Atkins

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Total Metals by EPA 6000/7000 Series Methods

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-14-D (BSJ0465-07) Soil Sampled: 10/21/05 08:50 Received: 10/21/05 15:00									
Nickel	52.8	0.581	mg/kg dry	1	SJ26068	10/26/05	11/02/05	EPA 6020	
B-14-D (BSJ0465-07RE1) Soil Sampled: 10/21/05 08:50 Received: 10/21/05 15:00									
Copper	1670	5.81	mg/kg dry	10	SJ26068	10/26/05	11/08/05	EPA 6020	
Potassium	83500	2010	"	100	5K08027	11/08/05	11/12/05	EPA 6010B	
Sodium	43100	2010	"	"	"	"	"	"	
Zinc	1400	58.1	"	10	SJ26068	10/26/05	11/08/05	EPA 6020	
B-15-S (BSJ0465-08) Soil Sampled: 10/21/05 09:00 Received: 10/21/05 15:00									
Nickel	40.6	0.728	mg/kg dry	1	SJ26068	10/26/05	11/02/05	EPA 6020	
B-15-S (BSJ0465-08RE1) Soil Sampled: 10/21/05 09:00 Received: 10/21/05 15:00									
Copper	1660	7.28	mg/kg dry	10	SJ26068	10/26/05	11/08/05	EPA 6020	
Potassium	90400	1820	"	100	5K08027	11/08/05	11/12/05	EPA 6010B	
Sodium	35100	1820	"	"	"	"	"	"	
Zinc	1270	72.8	"	10	SJ26068	10/26/05	11/08/05	EPA 6020	
B-15-D (BSJ0465-09) Soil Sampled: 10/21/05 09:05 Received: 10/21/05 15:00									
Potassium	138000	1940	mg/kg dry	100	5K04052	11/04/05	11/12/05	EPA 6010B	Q-18
Sodium	59200	1940	"	"	"	"	"	"	
Nickel	49.6	0.545	"	1	SJ26068	10/26/05	11/02/05	EPA 6020	
B-15-D (BSJ0465-09RE1) Soil Sampled: 10/21/05 09:05 Received: 10/21/05 15:00									
Copper	1400	5.45	mg/kg dry	10	SJ26068	10/26/05	11/08/05	EPA 6020	
Zinc	1200	54.5	"	"	"	"	"	"	

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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 1501 4th Ave, Suite 1400
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 Project Number: 33757742
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Total Metals by EPA 6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-18-S (B5J0465-10) Soil Sampled: 10/21/05 09:20 Received: 10/21/05 15:00									
Potassium	13700	2110	mg/kg dry	100	5K04052	11/04/05	11/12/05	EPA 6010B	Q-18
Sodium	6950	21.1	"	1	"	"	"	"	"
Nickel	56.6	0.704	"	"	5J26069	10/26/05	10/28/05	EPA 6020	
B-18-S (B5J0465-10RE1) Soil Sampled: 10/21/05 09:20 Received: 10/21/05 15:00									
Copper	2010	7.04	mg/kg dry	10	5J26069	10/26/05	11/01/05	EPA 6020	
Zinc	1580	70.4	"	"	"	"	"	"	"
B-17-S (B5J0465-11) Soil Sampled: 10/21/05 09:35 Received: 10/21/05 15:00									
Potassium	102000	1740	mg/kg dry	100	5K04052	11/04/05	11/12/05	EPA 6010B	Q-18
Sodium	70200	1740	"	"	"	"	"	"	"
Nickel	35.8	0.647	"	1	5J26068	10/26/05	11/02/05	EPA 6020	
B-17-S (B5J0465-11RE1) Soil Sampled: 10/21/05 09:35 Received: 10/21/05 15:00									
Copper	1030	6.47	mg/kg dry	10	5J26068	10/26/05	11/08/05	EPA 6020	
Zinc	735	64.7	"	"	"	"	"	"	"
B-17-M (B5J0465-12) Soil Sampled: 10/21/05 09:40 Received: 10/21/05 15:00									
Potassium	122000	1780	mg/kg dry	100	5K04052	11/04/05	11/12/05	EPA 6010B	Q-18
Sodium	84900	1780	"	"	"	"	"	"	"
Nickel	27.0	0.617	"	1	5J26068	10/26/05	11/02/05	EPA 6020	
B-17-M (B5J0465-12RE1) Soil Sampled: 10/21/05 09:40 Received: 10/21/05 15:00									
Copper	766	6.17	mg/kg dry	10	5J26068	10/26/05	11/08/05	EPA 6020	
Zinc	661	61.7	"	"	"	"	"	"	"

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 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97006-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.382.0010 fax 541.382.7200
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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 Seattle, WA/USA 98101-1616

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 Project Manager: Vance Atkins

Reported:
11/14/05 17:25

Total Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-17-D (BSJ0465-13) Soil Sampled: 10/21/05 09:45 Received: 10/21/05 15:00										
Potassium	84200		1730	mg/kg dry	100	5K04052	11/04/05	11/12/05	EPA 6010B	Q-18
Sodium	53100		1730	"	"	"	"	"	"	"
Nickel	109		0.635	"	1	5J26068	10/26/05	11/02/05	EPA 6020	
B-17-D (BSJ0465-13RE1) Soil Sampled: 10/21/05 09:45 Received: 10/21/05 15:00										
Copper	9610		63.5	mg/kg dry	100	5J26068	10/26/05	11/08/05	EPA 6020	
Zinc	6730		63.5	"	"	"	"	"	"	"
B-16-S (BSJ0465-14) Soil Sampled: 10/21/05 10:05 Received: 10/21/05 15:00										
Potassium	145000		1810	mg/kg dry	100	5K04052	11/04/05	11/12/05	EPA 6010B	Q-18
Sodium	49200		1810	"	"	"	"	"	"	"
Nickel	27.9		0.628	"	1	5J26068	10/26/05	11/02/05	EPA 6020	
B-16-S (BSJ0465-14RE1) Soil Sampled: 10/21/05 10:05 Received: 10/21/05 15:00										
Copper	918		6.28	mg/kg dry	10	5J26068	10/26/05	11/08/05	EPA 6020	
Zinc	739		62.8	"	"	"	"	"	"	"
B-16-M (BSJ0465-15) Soil Sampled: 10/21/05 10:10 Received: 10/21/05 15:00										
Potassium	130000		1750	mg/kg dry	100	5K04052	11/04/05	11/12/05	EPA 6010B	Q-18
Sodium	107000		1750	"	"	"	"	"	"	"
Nickel	28.0		0.606	"	1	5J26069	10/26/05	10/28/05	EPA 6020	
B-16-M (BSJ0465-15RE1) Soil Sampled: 10/21/05 10:10 Received: 10/21/05 15:00										
Copper	1240		6.06	mg/kg dry	10	5J26069	10/26/05	11/01/05	EPA 6020	
Zinc	584		60.6	"	"	"	"	"	"	"

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 509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
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Total Metals by EPA 6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-16-D (B5J0465-16) Soil Sampled: 10/21/05 10:15 Received: 10/21/05 15:00									
Potassium	90500	1760	mg/kg dry	100	5K04052	11/04/05	11/14/05	EPA 6010B	Q-18
Sodium	75400	1760	"	"	"	"	"	"	"
Nickel	45.7	0.594	"	1	5J26069	10/26/05	10/28/05	EPA 6020	
B-16-D (B5J0465-16RE1) Soil Sampled: 10/21/05 10:15 Received: 10/21/05 15:00									
Copper	1090	5.94	mg/kg dry	10	5J26069	10/26/05	11/01/05	EPA 6020	
Zinc	858	59.4	"	"	"	"	"	"	"
B-21-S (B5J0465-17) Soil Sampled: 10/21/05 10:30 Received: 10/21/05 15:00									
Potassium	119000	1810	mg/kg dry	100	5K04052	11/04/05	11/14/05	EPA 6010B	Q-18
Sodium	72200	1810	"	"	"	"	"	"	"
Nickel	38.3	0.545	"	1	5J26069	10/26/05	10/28/05	EPA 6020	
B-21-S (B5J0465-17RE1) Soil Sampled: 10/21/05 10:30 Received: 10/21/05 15:00									
Copper	1620	5.45	mg/kg dry	10	5J26069	10/26/05	11/01/05	EPA 6020	
Zinc	1850	54.5	"	"	"	"	"	"	"

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 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.5510 fax 541.382.7586
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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 Seattle, WA/USA 98101-1616

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TCLP Metals by EPA 1311/6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-12-S (B5J0465-01) Soil Sampled: 10/21/05 07:55 Received: 10/21/05 15:00									
Silver	ND	0.0500	mg/l	1	SJ28013	10/28/05	10/28/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	SK01062	11/01/05	11/02/05	EPA 7470A	
Lead	ND	0.100	"	"	SJ28013	10/28/05	10/28/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"
B-12-M (BSJ0465-02) Soil Sampled: 10/21/05 08:00 Received: 10/21/05 15:00									
Silver	ND	0.0500	mg/l	1	SJ28013	10/28/05	10/28/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	SK01062	11/01/05	11/02/05	EPA 7470A	
Lead	ND	0.100	"	"	SJ28013	10/28/05	10/28/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"
B-12-D (BSJ0465-03) Soil Sampled: 10/21/05 08:05 Received: 10/21/05 15:00									
Silver	ND	0.0500	mg/l	1	SJ28013	10/28/05	10/28/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	SK01062	11/01/05	11/02/05	EPA 7470A	
Lead	ND	0.100	"	"	SJ28013	10/28/05	10/28/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"

North Creek Analytical - Bothell

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
11/14/05 17:25

TCLP Metals by EPA 1311/6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte		Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-13-S (B5J0465-04) Soil Sampled: 10/21/05 08:30 Received: 10/21/05 15:00										
Silver		ND	0.0500	mg/l	1	5J28013	10/28/05	10/28/05	EPA 6010B	
Arsenic		ND	0.100	"	"	"	"	"	"	"
Barium		ND	1.00	"	"	"	"	"	"	"
Cadmium		ND	0.0500	"	"	"	"	"	"	"
Chromium		ND	0.100	"	"	"	"	"	"	"
Mercury		ND	0.00250	"	"	5K01062	11/01/05	11/02/05	EPA 7470A	
Lead		ND	0.100	"	"	5J28013	10/28/05	10/28/05	EPA 6010B	
Selenium		ND	0.100	"	"	"	"	"	"	"
B-13-D (B5J0465-05) Soil Sampled: 10/21/05 08:35 Received: 10/21/05 15:00										
Silver		ND	0.0500	mg/l	1	5J28013	10/28/05	10/28/05	EPA 6010B	
Arsenic		ND	0.100	"	"	"	"	"	"	"
Barium		ND	1.00	"	"	"	"	"	"	"
Cadmium		ND	0.0500	"	"	"	"	"	"	"
Chromium		ND	0.100	"	"	"	"	"	"	"
Mercury		ND	0.00250	"	"	5K01062	11/01/05	11/02/05	EPA 7470A	
Lead		ND	0.100	"	"	5J28013	10/28/05	10/28/05	EPA 6010B	
Selenium		ND	0.100	"	"	"	"	"	"	"
B-14-S (B5J0465-06) Soil Sampled: 10/21/05 08:45 Received: 10/21/05 15:00										
Silver		ND	0.0500	mg/l	1	5J28013	10/28/05	10/28/05	EPA 6010B	
Arsenic		ND	0.100	"	"	"	"	"	"	"
Barium		ND	1.00	"	"	"	"	"	"	"
Cadmium		ND	0.0500	"	"	"	"	"	"	"
Chromium		ND	0.100	"	"	"	"	"	"	"
Mercury		ND	0.00250	"	"	5K01062	11/01/05	11/02/05	EPA 7470A	
Lead		ND	0.100	"	"	5J28013	10/28/05	10/28/05	EPA 6010B	
Selenium		ND	0.100	"	"	"	"	"	"	"

North Creek Analytical - Bothell

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 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
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 541.383.9319 fax 541.382.7382
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
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TCLP Metals by EPA 1311/6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-14-D (B5J0465-07) Soil Sampled: 10/21/05 08:50 Received: 10/21/05 15:00									
Silver	ND	0.0500	mg/l	1	5J28013	10/28/05	10/28/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	5K01062	11/01/05	11/02/05	EPA 7470A	
Lead	ND	0.100	"	"	5J28013	10/28/05	10/28/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"
B-15-S (B5J0465-08) Soil Sampled: 10/21/05 09:00 Received: 10/21/05 15:00									
Silver	ND	0.0500	mg/l	1	5J28013	10/28/05	10/28/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	5K01062	11/01/05	11/02/05	EPA 7470A	
Lead	ND	0.100	"	"	5J28013	10/28/05	10/28/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"
B-15-D (B5J0465-09) Soil Sampled: 10/21/05 09:05 Received: 10/21/05 15:00									
Silver	ND	0.0500	mg/l	1	5J28013	10/28/05	10/28/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	5K01062	11/01/05	11/02/05	EPA 7470A	
Lead	ND	0.100	"	"	5J28013	10/28/05	10/28/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"

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Seattle, WA/USA 98101-1616

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425.420.9200 fax 425.420.9210
Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
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TCLP Metals by EPA 1311/6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-18-S (B5J0465-10) Soil Sampled: 10/21/05 09:20 Received: 10/21/05 15:00									
Silver	ND	0.0500	mg/l	1	SJ28013	10/28/05	10/28/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	SK01062	11/01/05	11/02/05	EPA 7470A	
Lead	ND	0.100	"	"	SJ28013	10/28/05	10/28/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"
B-17-S (B5J0465-11) Soil Sampled: 10/21/05 09:35 Received: 10/21/05 15:00									
Silver	ND	0.0500	mg/l	1	SJ28013	10/28/05	10/28/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	SK01062	11/01/05	11/02/05	EPA 7470A	
Lead	ND	0.100	"	"	SJ28013	10/28/05	10/28/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"
B-17-M (B5J0465-12) Soil Sampled: 10/21/05 09:40 Received: 10/21/05 15:00									
Silver	ND	0.0500	mg/l	1	SJ28013	10/28/05	10/28/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	SK01062	11/01/05	11/02/05	EPA 7470A	
Lead	ND	0.100	"	"	SJ28013	10/28/05	10/28/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"

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 425.420.9200 fax 425.420.9210
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 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9319 fax 541.382.7588
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
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TCLP Metals by EPA 1311/6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-17-D (BSJ0465-13) Soil Sampled: 10/21/05 09:45 Received: 10/21/05 15:00									
Silver	ND	0.0500	mg/l	1	SJ28013	10/28/05	10/28/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	5K01062	11/01/05	11/02/05	EPA 7470A	
Lead	ND	0.100	"	"	SJ28013	10/28/05	10/28/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"
B-16-S (BSJ0465-14) Soil Sampled: 10/21/05 10:05 Received: 10/21/05 15:00									
Silver	ND	0.0500	mg/l	1	SJ28013	10/28/05	10/28/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	5K01062	11/01/05	11/02/05	EPA 7470A	
Lead	ND	0.100	"	"	SJ28013	10/28/05	10/28/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"
B-16-M (BSJ0465-15) Soil Sampled: 10/21/05 10:10 Received: 10/21/05 15:00									
Silver	ND	0.0500	mg/l	1	SJ28013	10/28/05	10/28/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	5K01062	11/01/05	11/02/05	EPA 7470A	
Lead	ND	0.100	"	"	SJ28013	10/28/05	10/28/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"

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509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

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TCLP Metals by EPA 1311/6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-16-D (B5J0465-16) Soil Sampled: 10/21/05 10:15 Received: 10/21/05 15:00									
Silver	ND	0.0500	mg/l	1	SJ28013	10/28/05	10/28/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	SK01062	11/01/05	11/02/05	EPA 7470A	
Lead	ND	0.100	"	"	SJ28013	10/28/05	10/28/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"
B-21-S (B5J0465-17) Soil Sampled: 10/21/05 10:30 Received: 10/21/05 15:00									
Silver	ND	0.0500	mg/l	1	SJ28013	10/28/05	10/28/05	EPA 6010B	
Arsenic	ND	0.100	"	"	"	"	"	"	"
Barium	ND	1.00	"	"	"	"	"	"	"
Cadmium	ND	0.0500	"	"	"	"	"	"	"
Chromium	ND	0.100	"	"	"	"	"	"	"
Mercury	ND	0.00250	"	"	SK01062	11/01/05	11/02/05	EPA 7470A	
Lead	ND	0.100	"	"	SJ28013	10/28/05	10/28/05	EPA 6010B	
Selenium	ND	0.100	"	"	"	"	"	"	"

North Creek Analytical - Bothell

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 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9210 fax 541.382.7586
 Anchorage 2800 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
 11/14/05 17:25

Conventional Chemistry Parameters by APHA/EPA Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-12-S (B5J0465-01) Soil Sampled: 10/21/05 07:55 Received: 10/21/05 15:00									
Ammonia-Nitrogen	ND <i>NS</i>	6.44	mg/kg as N dry	1	SJ31069	10/31/05	11/01/05	EPA 350.3	
B-12-M (B5J0465-02) Soil Sampled: 10/21/05 08:00 Received: 10/21/05 15:00									
Ammonia-Nitrogen	138 <i>NS</i>	6.89	mg/kg as N dry	1	SJ31069	10/31/05	11/01/05	EPA 350.3	
B-12-D (B5J0465-03) Soil Sampled: 10/21/05 08:05 Received: 10/21/05 15:00									
Ammonia-Nitrogen	243 <i>NS</i>	6.92	mg/kg as N dry	1	SJ31069	10/31/05	11/01/05	EPA 350.3	
B-13-S (B5J0465-04) Soil Sampled: 10/21/05 08:30 Received: 10/21/05 15:00									
Ammonia-Nitrogen	142 <i>NS</i>	6.10	mg/kg as N dry	1	SJ31069	10/31/05	11/01/05	EPA 350.3	
B-13-D (B5J0465-05) Soil Sampled: 10/21/05 08:35 Received: 10/21/05 15:00									
Ammonia-Nitrogen	309 <i>NS</i>	6.02	mg/kg as N dry	1	SJ31069	10/31/05	11/01/05	EPA 350.3	
B-14-S (B5J0465-06) Soil Sampled: 10/21/05 08:45 Received: 10/21/05 15:00									
Ammonia-Nitrogen	129 <i>NS</i>	6.17	mg/kg as N dry	1	SJ31069	10/31/05	11/01/05	EPA 350.3	
B-14-D (B5J0465-07) Soil Sampled: 10/21/05 08:50 Received: 10/21/05 15:00									
Ammonia-Nitrogen	325 <i>NS</i>	6.31	mg/kg as N dry	1	SJ31069	10/31/05	11/01/05	EPA 350.3	
B-15-S (B5J0465-08) Soil Sampled: 10/21/05 09:00 Received: 10/21/05 15:00									
Ammonia-Nitrogen	216 <i>NS</i>	6.37	mg/kg as N dry	1	SJ31069	10/31/05	11/01/05	EPA 350.3	
B-15-D (B5J0465-09) Soil Sampled: 10/21/05 09:05 Received: 10/21/05 15:00									
Ammonia-Nitrogen	334	4.70	mg/kg as N dry	1	SK02065	11/02/05	11/02/05	EPA 350.3	

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Conventional Chemistry Parameters by APHA/EPA Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-18-S (B5J0465-10) Soil Sampled: 10/21/05 09:20 Received: 10/21/05 15:00									
Ammonia-Nitrogen	ND	6.28	mg/kg as N dry	1	5K02065	11/02/05	11/02/05	EPA 350.3	
B-17-S (B5J0465-11) Soil Sampled: 10/21/05 09:35 Received: 10/21/05 15:00									
Ammonia-Nitrogen	242	5.39	mg/kg as N dry	1	5K02065	11/02/05	11/02/05	EPA 350.3	
B-17-M (B5J0465-12) Soil Sampled: 10/21/05 09:40 Received: 10/21/05 15:00									
Ammonia-Nitrogen	288	3.73	mg/kg as N dry	1	5K02065	11/02/05	11/02/05	EPA 350.3	
B-17-D (B5J0465-13) Soil Sampled: 10/21/05 09:45 Received: 10/21/05 15:00									
Ammonia-Nitrogen	339	4.98	mg/kg as N dry	1	5K02065	11/02/05	11/02/05	EPA 350.3	
B-16-S (B5J0465-14) Soil Sampled: 10/21/05 10:05 Received: 10/21/05 15:00									
Ammonia-Nitrogen	84.4	3.35	mg/kg as N dry	1	5K02065	11/02/05	11/02/05	EPA 350.3	
B-16-M (B5J0465-15) Soil Sampled: 10/21/05 10:10 Received: 10/21/05 15:00									
Ammonia-Nitrogen	174	4.13	mg/kg as N dry	1	5K02065	11/02/05	11/02/05	EPA 350.3	
B-16-D (B5J0465-16) Soil Sampled: 10/21/05 10:15 Received: 10/21/05 15:00									
Ammonia-Nitrogen	252	4.52	mg/kg as N dry	1	5K02065	11/02/05	11/02/05	EPA 350.3	
B-21-S (B5J0465-17) Soil Sampled: 10/21/05 10:30 Received: 10/21/05 15:00									
Ammonia-Nitrogen	322	3.56	mg/kg as N dry	1	5K02065	11/02/05	11/02/05	EPA 350.3	
COMP-6 (B5J0465-18) Soil Sampled: 10/21/05 12:55 Received: 10/21/05 15:00									
Cyanide (total)	ND	0.657	mg/kg dry	1	5J28056	10/28/05	10/28/05	EPA 9010B Mod	
pH	9.25	J	pH Units	"	5J25058	10/25/05	10/25/05	EPA 9045C	
Sulfide	ND	27.2	mg/kg dry	"	5J25060	10/25/05	10/25/05	EPA 9030B	

11.15.05

North Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 17:25

Conventional Chemistry Parameters by APHA/EPA Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
COMP-7 (BSJ0465-19) Soil Sampled: 10/21/05 13:00 Received: 10/21/05 15:00									
Cyanide (total)	ND	0.604	mg/kg dry	1	SJ28056	10/28/05	10/28/05	EPA 9010B Mod	
pH	9.08		pH Units	"	SJ25058	10/25/05	10/25/05	EPA 9045C	
Sulfide	28.0	24.1	mg/kg dry	"	SJ25060	10/25/05	10/25/05	EPA 9030B	

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Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 17:25

Anions by EPA Method 300.0

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-12-S (BSJ0465-01) Soil Sampled: 10/21/05 07:55 Received: 10/21/05 15:00									
Chloride	211	27.6	mg/kg dry	5	5K01038	10/31/05	11/03/05	EPA 300.0	
B-12-M (BSJ0465-02) Soil Sampled: 10/21/05 08:00 Received: 10/21/05 15:00									
Chloride	3860	555	mg/kg dry	100	5K01038	10/31/05	11/03/05	EPA 300.0	
B-12-D (BSJ0465-03) Soil Sampled: 10/21/05 08:05 Received: 10/21/05 15:00									
Chloride	101000	10900	mg/kg dry	2000	5K01038	10/31/05	11/04/05	EPA 300.0	
B-13-S (BSJ0465-04) Soil Sampled: 10/21/05 08:30 Received: 10/21/05 15:00									
Chloride	36900	4920	mg/kg dry	1000	5K01038	10/31/05	11/04/05	EPA 300.0	
B-13-D (BSJ0465-05) Soil Sampled: 10/21/05 08:35 Received: 10/21/05 15:00									
Chloride	106000	24900	mg/kg dry	5000	5K01038	10/31/05	11/03/05	EPA 300.0	
B-14-S (BSJ0465-06) Soil Sampled: 10/21/05 08:45 Received: 10/21/05 15:00									
Chloride	157000	25700	mg/kg dry	5000	5K01038	10/31/05	11/03/05	EPA 300.0	
B-14-D (BSJ0465-07) Soil Sampled: 10/21/05 08:50 Received: 10/21/05 15:00									
Chloride	107000	25400	mg/kg dry	5000	5K01038	10/31/05	11/03/05	EPA 300.0	
B-15-S (BSJ0465-08) Soil Sampled: 10/21/05 09:00 Received: 10/21/05 15:00									
Chloride	139000	23800	mg/kg dry	5000	5K01038	10/31/05	11/03/05	EPA 300.0	
B-15-D (BSJ0465-09) Soil Sampled: 10/21/05 09:05 Received: 10/21/05 15:00									
Chloride	167000	25000	mg/kg dry	5000	5K01038	10/31/05	11/03/05	EPA 300.0	

North Creek Analytical - Bothell

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509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9210 fax 541.382.5588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

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1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 17:25

Anions by EPA Method 300.0
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-18-S (B5J0465-10) Soil Sampled: 10/21/05 09:20 Received: 10/21/05 15:00									
Chloride	86.8	11.1	mg/kg dry	2	SK01038	10/31/05	11/03/05	EPA 300.0	
B-17-S (B5J0465-11) Soil Sampled: 10/21/05 09:35 Received: 10/21/05 15:00									
Chloride	167000	24100	mg/kg dry	5000	SK01038	10/31/05	11/03/05	EPA 300.0	
B-17-M (B5J0465-12) Soil Sampled: 10/21/05 09:40 Received: 10/21/05 15:00									
Chloride	213000	23300	mg/kg dry	5000	SK01038	10/31/05	11/03/05	EPA 300.0	
B-17-D (B5J0465-13) Soil Sampled: 10/21/05 09:45 Received: 10/21/05 15:00									
Chloride	136000	25300	mg/kg dry	5000	SK01038	10/31/05	11/03/05	EPA 300.0	
B-16-S (B5J0465-14) Soil Sampled: 10/21/05 10:05 Received: 10/21/05 15:00									
Chloride	196000	23800	mg/kg dry	5000	SK01038	10/31/05	11/03/05	EPA 300.0	
B-16-M (B5J0465-15) Soil Sampled: 10/21/05 10:10 Received: 10/21/05 15:00									
Chloride	259000	22800	mg/kg dry	5000	SK01038	10/31/05	11/03/05	EPA 300.0	
B-16-D (B5J0465-16) Soil Sampled: 10/21/05 10:15 Received: 10/21/05 15:00									
Chloride	163000	22700	mg/kg dry	5000	SK01038	10/31/05	11/03/05	EPA 300.0	
B-21-S (B5J0465-17) Soil Sampled: 10/21/05 10:30 Received: 10/21/05 15:00									
Chloride	206000	24400	mg/kg dry	5000	SK01038	10/31/05	11/03/05	EPA 300.0	

North Creek Analytical - Bothell

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 509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
11/14/05 17:25

Physical Parameters by APHA/ASTM/EPA Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-12-S (B5J0465-01) Soil Sampled: 10/21/05 07:55 Received: 10/21/05 15:00									
Dry Weight	72.0	1.00	%	1	SJ31083	10/31/05	11/02/05	BSOPSPLO03R08	
B-12-M (B5J0465-02) Soil Sampled: 10/21/05 08:00 Received: 10/21/05 15:00									
Dry Weight	71.4	1.00	%	1	SJ31083	10/31/05	11/02/05	BSOPSPLO03R08	
B-12-D (B5J0465-03) Soil Sampled: 10/21/05 08:05 Received: 10/21/05 15:00									
Dry Weight	71.9	1.00	%	1	SJ31083	10/31/05	11/02/05	BSOPSPLO03R08	
B-13-S (B5J0465-04) Soil Sampled: 10/21/05 08:30 Received: 10/21/05 15:00									
Dry Weight	78.6	1.00	%	1	SJ31083	10/31/05	11/02/05	BSOPSPLO03R08	
B-13-D (B5J0465-05) Soil Sampled: 10/21/05 08:35 Received: 10/21/05 15:00									
Dry Weight	77.9	1.00	%	1	SJ31083	10/31/05	11/02/05	BSOPSPLO03R08	
B-14-S (B5J0465-06) Soil Sampled: 10/21/05 08:45 Received: 10/21/05 15:00									
Dry Weight	76.1	1.00	%	1	SJ31083	10/31/05	11/02/05	BSOPSPLO03R08	
B-14-D (B5J0465-07) Soil Sampled: 10/21/05 08:50 Received: 10/21/05 15:00									
Dry Weight	76.1	1.00	%	1	SJ31083	10/31/05	11/02/05	BSOPSPLO03R08	
B-15-S (B5J0465-08) Soil Sampled: 10/21/05 09:00 Received: 10/21/05 15:00									
Dry Weight	77.2	1.00	%	1	SJ31083	10/31/05	11/02/05	BSOPSPLO03R08	
B-15-D (B5J0465-09) Soil Sampled: 10/21/05 09:05 Received: 10/21/05 15:00									
Dry Weight	79.1	1.00	%	1	SJ31083	10/31/05	11/02/05	BSOPSPLO03R08	

North Creek Analytical - Bothell

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 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9210 fax 541.382.7268
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
11/14/05 17:25

Physical Parameters by APHA/ASTM/EPA Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-18-S (B5J0465-10) Soil Sampled: 10/21/05 09:20 Received: 10/21/05 15:00									
Dry Weight	71.0	1.00	%	1	SJ31084	10/31/05	11/02/05	BSOPSPL003R08	
B-17-S (B5J0465-11) Soil Sampled: 10/21/05 09:35 Received: 10/21/05 15:00									
Dry Weight	82.2	1.00	%	1	SJ31084	10/31/05	11/02/05	BSOPSPL003R08	
B-17-M (B5J0465-12) Soil Sampled: 10/21/05 09:40 Received: 10/21/05 15:00									
Dry Weight	82.7	1.00	%	1	SJ31084	10/31/05	11/02/05	BSOPSPL003R08	
B-17-D (B5J0465-13) Soil Sampled: 10/21/05 09:45 Received: 10/21/05 15:00									
Dry Weight	78.8	1.00	%	1	SJ31084	10/31/05	11/02/05	BSOPSPL003R08	
B-16-S (B5J0465-14) Soil Sampled: 10/21/05 10:05 Received: 10/21/05 15:00									
Dry Weight	82.9	1.00	%	1	SJ31084	10/31/05	11/02/05	BSOPSPL003R08	
B-16-M (B5J0465-15) Soil Sampled: 10/21/05 10:10 Received: 10/21/05 15:00									
Dry Weight	85.0	1.00	%	1	SJ31084	10/31/05	11/02/05	BSOPSPL003R08	
B-16-D (B5J0465-16) Soil Sampled: 10/21/05 10:15 Received: 10/21/05 15:00									
Dry Weight	86.8	1.00	%	1	SJ31084	10/31/05	11/02/05	BSOPSPL003R08	
B-21-S (B5J0465-17) Soil Sampled: 10/21/05 10:30 Received: 10/21/05 15:00									
Dry Weight	80.5	1.00	%	1	SJ31084	10/31/05	11/02/05	BSOPSPL003R08	
COMP-6 (B5J0465-18) Soil Sampled: 10/21/05 12:55 Received: 10/21/05 15:00									
Dry Weight	73.2	1.00	%	1	SJ31084	10/31/05	11/02/05	BSOPSPL003R08	

North Creek Analytical - Bothell

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425.420.9200 fax 425.420.9210
Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

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1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

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11/14/05 17:25

Physical Parameters by APHA/ASTM/EPA Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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COMP-7 (B5J0465-19) Soil Sampled: 10/21/05 13:00 Received: 10/21/05 15:00

Dry Weight 81.1 1.00 % 1 5J31084 10/31/05 11/02/05 BSOPSPLO03R08

North Creek Analytical - Bothell

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509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
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907.563.9200 fax 907.563.9210

URS Corporation
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Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 17:25

Physical Parameters by APHA/ASTM/EPA Methods

North Creek Analytical - Spokane

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
COMP-6 (B5J0465-18) Soil Sampled: 10/21/05 12:55 Received: 10/21/05 15:00									
Flashpoint	ND	20.0	°C	1	5100254	10/31/05	11/01/05	EPA 1010	F-01
COMP-7 (B5J0465-19) Soil Sampled: 10/21/05 13:00 Received: 10/21/05 15:00									
Flashpoint	ND	20.0	°C	1	5100254	10/31/05	11/01/05	EPA 1010	F-01

North Creek Analytical - Bothell

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Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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Project: Maralco
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11/14/05 17:25

Total Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 5J26068: Prepared 10/26/05 Using EPA 3050B

Blank (5J26068-BLK1)

Copper	ND	0.500	mg/kg							
Nickel	ND	0.500	"							
Zinc	ND	5.00	"							

LCS (5J26068-BS1)

Copper	38.6	0.500	mg/kg	40.0	96.5	80-120				
Nickel	39.6	0.500	"	40.0	99.0	80-120				
Zinc	39.9	5.00	"	40.0	99.8	80-120				

LCS Dup (5J26068-BSD1)

Copper	38.8	0.500	mg/kg	40.0	97.0	80-120	0.517	20		
Nickel	40.0	0.500	"	40.0	100	80-120	1.01	20		
Zinc	40.2	5.00	"	40.0	100	80-120	0.749	20		

Matrix Spike (5J26068-MS1)

Source: B5J0426-09

Nickel	81.8	0.586	mg/kg dry	46.9	47.5	73.1	56-135			
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Matrix Spike (5J26068-MS2)

Source: B5J0426-09RE1

Copper	1170	5.86	mg/kg dry	46.9	1270	-213	33-156			Q-03
Zinc	902	58.6	"	46.9	931	-61.8	20-160			Q-01

Matrix Spike Dup (5J26068-MSD1)

Source: B5J0426-09

Nickel	98.5	0.586	mg/kg dry	46.9	47.5	109	56-135	18.5	30	
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Matrix Spike Dup (5J26068-MSD2)

Source: B5J0426-09RE1

Copper	1260	5.86	mg/kg dry	46.9	1270	-21.3	33-156	7.41	30	
Zinc	961	58.6	"	46.9	931	64.0	20-160	6.33	30	

North Creek Analytical - Bothell

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 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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 Seattle, WA/USA 98101-1616

Project: Maralco
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Reported:
11/14/05 17:25

Total Metals by EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 5J26068: Prepared 10/26/05 Using EPA 3050B										
Post Spike (5J26068-PS1)										
Source: B5J0426-09										
Nickel	0.174		ug/ml	0.100	0.0811	92.9	75-125			
Post Spike (5J26068-PS2)										
Source: B5J0426-09RE1										
Copper	2.25		ug/ml	0.101	2.16	89.1	75-125			
Zinc	1.68	"	"	0.100	1.59	90.0	75-125			
Batch 5J26069: Prepared 10/26/05 Using EPA 3050B										
Blank (5J26069-BLK1)										
Copper	ND	0.500	mg/kg							
Nickel	ND	0.500	"							
Zinc	ND	5.00	"							
LCS (5J26069-BS1)										
Copper	38.4	0.500	mg/kg	40.0	96.0	80-120				
Nickel	39.7	0.500	"	40.0	99.2	80-120				
Zinc	39.6	5.00	"	40.0	99.0	80-120				
LCS Dup (5J26069-BSD1)										
Copper	39.8	0.500	mg/kg	40.0	99.5	80-120	3.58	20		
Nickel	41.2	0.500	"	40.0	103	80-120	3.71	20		
Zinc	39.9	5.00	"	40.0	99.8	80-120	0.755	20		
Matrix Spike (5J26069-MS1)										
Nickel	115	0.704	mg/kg dry	56.3	56.6	104	56-135			
Matrix Spike (5J26069-MS2)										
Source: B5J0515-01										
Copper	67.4	0.504	mg/kg dry	40.3	24.8	106	33-156			
Nickel	66.9	0.504	"	40.3	23.7	107	56-135			
Zinc	114	5.04	"	40.3	67.3	116	20-160			

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 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
11/14/05 17:25

Total Metals by EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 5J26069: Prepared 10/26/05 Using EPA 3050B										
Matrix Spike (SJ26069-MS3)										
Source: B5J0465-10										
Copper	2120	7.04	mg/kg dry	56.3	2000	213	33-156			Q-03
Zinc	1960	70.4	"	56.3	1460	888	20-160			Q-03
Matrix Spike Dup (SJ26069-MSD1)										
Source: B5J0465-10										
Nickel	115	0.704	mg/kg dry	56.3	56.6	104	56-135	0.00	30	
Matrix Spike Dup (SJ26069-MSD2)										
Source: B5J0515-01										
Copper	71.2	0.504	mg/kg dry	40.3	24.8	115	33-156	5.48	30	
Nickel	68.1	0.504	"	40.3	23.7	110	56-135	1.78	30	
Zinc	119	5.04	"	40.3	67.3	128	20-160	4.29	30	
Matrix Spike Dup (SJ26069-MSD3)										
Source: B5J0465-10										
Copper	2100	7.04	mg/kg dry	56.3	2000	178	33-156	0.948	30	Q-03
Zinc	1900	70.4	"	56.3	1460	782	20-160	3.11	30	Q-03
Post Spike (SJ26069-PS1)										
Source: B5J0465-10										
Nickel	0.177		ug/ml	0.100	0.0804	96.6	75-125			
Post Spike (SJ26069-PS2)										
Source: B5J0465-10										
Copper	3.11		ug/ml	0.101	2.84	267	75-125			Q-03
Zinc	2.51		"	0.100	2.07	440	75-125			Q-03
Batch 5K04052: Prepared 11/04/05 Using EPA 3050B										
Blank (5K04052-BLK1)										
Potassium	39.4	14.9	mg/kg							
Sodium	ND	14.9	"							

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 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9318 fax 541.382.7582
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
11/14/05 17:25

Total Metals by EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 5K04052: Prepared 11/04/05 Using EPA 3050B										
LCS (5K04052-BS1)										
Potassium	584	15.0	mg/kg	500	117	80-120				
Sodium	278	15.0	"	250	111	80-120				
LCS Dup (5K04052-BSD1)										
Potassium	589	15.0	mg/kg	500	118	80-120	0.853	20		
Sodium	289	15.0	"	250	116	80-120	3.88	20		
Matrix Spike (5K04052-MS1)										
Potassium	19200	2070	mg/kg dry	690	13700	797	70-130			Q-03
Sodium	8800	20.7	"	345	6950	536	70-130			Q-03
Matrix Spike Dup (5K04052-MSD1)										
Potassium	17600	2130	mg/kg dry	711	13700	549	70-130	8.70	30	Q-03
Sodium	7940	21.3	"	356	6950	278	70-130	10.3	30	Q-03
Post Spike (5K04052-PS1)										
Potassium	199		ug/ml	10.0	195	40.0	75-125			Q-03
Sodium	102		"	5.00	98.8	64.0	75-125			Q-03
Batch 5K08027: Prepared 11/08/05 Using EPA 3050B										
Blank (5K08027-BLK1)										
Potassium	ND	15.0	mg/kg							
Sodium	ND	15.0	"							
LCS (5K08027-BS1)										
Potassium	560	15.0	mg/kg	500	112	80-120				
Sodium	273	15.0	"	250	109	80-120				

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509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

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1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
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Total Metals by EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
Batch 5K08027: Prepared 11/08/05 Using EPA 3050B									
LCS Dup (5K08027-BSD1)									
Potassium	544	15.0	mg/kg	500	109	80-120	2.90	20	
Sodium	268	15.0	"	250	107	80-120	1.85	20	
Matrix Spike (5K08027-MS1)									
Potassium	122000	1730	mg/kg dry	575	142000	-3480	70-130		Q-03
Sodium	105000	1730	"	288	108000	-1040	70-130		Q-03
Matrix Spike Dup (5K08027-MSD1)									
Potassium	153000	1760	mg/kg dry	587	142000	1870	70-130	22.5	30
Sodium	116000	1760	"	293	108000	2730	70-130	9.95	30
Post Spike (5K08027-PS1)									
Potassium	2350		ug/ml	10.0	2420	-700	75-125		Q-03
Sodium	1860		"	5.00	1840	400	75-125		Q-03

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 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 Fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
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TCLP Metals by EPA 1311/6000/7000 Series Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit	Notes
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Batch 5J28013: Prepared 10/28/05 Using EPA 3010A

Blank (5J28013-BLK1)

Silver	ND	0.0500	mg/l							
Arsenic	ND	0.100	"							
Barium	ND	1.00	"							
Cadmium	ND	0.0500	"							
Chromium	ND	0.100	"							
Lead	ND	0.100	"							
Selenium	ND	0.100	"							

LCS (5J28013-BS1)

Silver	0.940	0.0500	mg/l	1.00	94.0	80-120				
Arsenic	4.78	0.100	"	5.00	95.6	80-120				
Barium	4.58	1.00	"	5.00	91.6	80-120				
Cadmium	4.77	0.0500	"	5.00	95.4	80-120				
Chromium	4.70	0.100	"	5.00	94.0	80-120				
Lead	4.82	0.100	"	5.00	96.4	80-120				
Selenium	4.72	0.100	"	5.00	94.4	80-120				

LCS Dup (5J28013-BSD1)

Silver	0.958	0.0500	mg/l	1.00	95.8	80-120	1.90	35		
Arsenic	4.89	0.100	"	5.00	97.8	80-120	2.28	20		
Barium	4.65	1.00	"	5.00	93.0	80-120	1.52	20		
Cadmium	4.88	0.0500	"	5.00	97.6	80-120	2.28	20		
Chromium	4.80	0.100	"	5.00	96.0	80-120	2.11	20		
Lead	4.97	0.100	"	5.00	99.4	80-120	3.06	20		
Selenium	4.86	0.100	"	5.00	97.2	80-120	2.92	20		

Matrix Spike (5J28013-MS1)

Silver	0.963	0.0500	mg/l	1.00	ND	96.3	75-125			
Arsenic	4.92	0.100	"	5.00	ND	98.4	80-120			
Barium	4.66	1.00	"	5.00	0.0219	92.8	80-120			
Cadmium	4.86	0.0500	"	5.00	ND	97.2	80-120			
Chromium	4.79	0.100	"	5.00	ND	95.8	80-120			
Lead	4.96	0.100	"	5.00	ND	99.2	80-120			
Selenium	4.87	0.100	"	5.00	ND	97.4	80-120			

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Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

URS Corporation
 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project: Maralco
 Project Number: 33757742
 Project Manager: Vance Atkins

Reported:
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TCLP Metals by EPA 1311/6000/7000 Series Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
Batch 5J28013: Prepared 10/28/05 Using EPA 3010A									
Matrix Spike Dup (5J28013-MSD1)									
Source: B5J0465-10									
Silver	0.949	0.0500	mg/l	1.00	ND	94.9	75-125	1.46	35
Arsenic	4.86	0.100	"	5.00	ND	97.2	80-120	1.23	20
Barium	4.60	1.00	"	5.00	0.0219	91.6	80-120	1.30	20
Cadmium	4.79	0.0500	"	5.00	ND	95.8	80-120	1.45	20
Chromium	4.71	0.100	"	5.00	ND	94.2	80-120	1.68	20
Lead	4.90	0.100	"	5.00	ND	98.0	80-120	1.22	20
Selenium	4.86	0.100	"	5.00	ND	97.2	80-120	0.206	20
Batch 5K01062: Prepared 11/01/05 Using EPA 7470A									
Blank (5K01062-BLK1)									
Mercury	ND	0.00100	mg/l						
LCS (5K01062-BS1)									
Mercury	0.00504	0.00100	mg/l	0.00500		101	80-120		
LCS Dup (5K01062-BSD1)									
Mercury	0.00515	0.00100	mg/l	0.00500		103	80-120	2.16	20
Matrix Spike (5K01062-MS1)									
Mercury	0.0124	0.00250	mg/l	0.0125	ND	99.2	75-125		
Matrix Spike Dup (5K01062-MSD1)									
Mercury	0.0120	0.00250	mg/l	0.0125	ND	96.0	75-125	3.28	20

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509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9210 fax 541.382.7585
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

URS Corporation
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Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 17:25

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 5J25058: Prepared 10/25/05 Using General Preparation										
Duplicate (5J25058-DUP1)										
pH	9.28		pH Units		9.25			0.324	10	
Duplicate (5J25058-DUP2)										
pH	9.10		pH Units		9.08			0.220	10	
Batch 5J25060: Prepared 10/25/05 Using General Preparation										
Blank (5J25060-BLK1)										
Sulfide	ND	19.7	mg/kg							
LCS (5J25060-BS1)										
Sulfide	104	19.9	mg/kg	125		83.2	75-125			
LCS Dup (5J25060-BSD1)										
Sulfide	109	20.0	mg/kg	125		87.2	75-125	4.69	25	
Duplicate (5J25060-DUP1)										
Sulfide	39.8	24.6	mg/kg dry		28.0			34.8	30	Q-14
Matrix Spike (5J25060-MS1)										
Sulfide	175	24.3	mg/kg dry	153	28.0	96.1	20-120			
Batch 5J28056: Prepared 10/28/05 Using General Preparation										
Blank (5J28056-BLK1)										
Cyanide (total)	ND	0.500	mg/kg							

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 509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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 1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 5J28056: Prepared 10/28/05 Using General Preparation

Blank (5J28056-BLK2)

Cyanide (total) ND 0.500 mg/kg

LCS (5J28056-BS1)

Cyanide (total) 5.10 0.500 mg/kg 4.97 103 85-115

LCS (5J28056-BS2)

Cyanide (total) 4.95 0.500 mg/kg 4.97 99.6 85-115

LCS Dup (5J28056-BSD1)

Cyanide (total) 5.00 0.500 mg/kg 4.97 101 85-115 1.98 30

Duplicate (5J28056-DUP1)

Source: B5J0381-15

Cyanide (total) 1.16 0.683 mg/kg dry 1.16 0.00 46

Matrix Spike (5J28056-MS1)

Source: B5J0381-15

Cyanide (total) 7.30 0.664 mg/kg dry 6.60 1.16 93.0 27-138

Batch 5J31069: Prepared 10/31/05 Using General Preparation

Blank (5J31069-BLK1)

Ammonia-Nitrogen ND 5.00 mg/kg as N

LCS (5J31069-BS1)

Ammonia-Nitrogen 236 5.00 mg/kg as N 250 94.4 75-125

LCS Dup (5J31069-BSD1)

Ammonia-Nitrogen 239 5.00 mg/kg as N 250 95.6 75-125 1.26 25

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Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.383.7766
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 5J31069: Prepared 10/31/05 Using General Preparation										
Matrix Spike (5J31069-MS1)										
Ammonia-Nitrogen	354	5.57	mg/kg as N dry	278	104	89.9	59-127			
Matrix Spike Dup (5J31069-MSD1)										
Ammonia-Nitrogen	317	4.82	mg/kg as N dry	241	104	88.4	59-127	11.0	30	
Batch 5K02065: Prepared 11/02/05 Using General Preparation										
Blank (SK02065-BLK1)										
Ammonia-Nitrogen	ND	0.100	mg/kg as N							
LCS (5K02065-BS1)										
Ammonia-Nitrogen	4.83	0.100	mg/kg as N	5.00		96.6	75-125			
LCS Dup (5K02065-BSD1)										
Ammonia-Nitrogen	4.85	0.100	mg/kg as N	5.00		97.0	75-125	0.413	25	
Matrix Spike (5K02065-MS1)										
Ammonia-Nitrogen	251	4.96	mg/kg as N dry	248	3.62	99.8	59-127			
Matrix Spike Dup (5K02065-MSD1)										
Ammonia-Nitrogen	266	5.68	mg/kg as N dry	284	3.62	92.4	59-127	5.80	30	

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509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

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Seattle, WA/USA 98101-1616

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Project Manager: Vance Atkins

Reported:
11/14/05 17:25

Anions by EPA Method 300.0 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 5K01038: Prepared 10/31/05 Using General Preparation										
Blank (5K01038-BLK1)										
Chloride	ND	4.00	mg/kg							
LCS (5K01038-BS1)										
Chloride	20.9	4.00	mg/kg	20.0		104	90-110			
LCS Dup (5K01038-BSD1)										
Chloride	19.8	4.00	mg/kg	20.0		99.0	90-110	5.41	10	
Matrix Spike (5K01038-MS1)										
Chloride	115	27.4	mg/kg dry	27.4	86.8	103	62-157			
Matrix Spike Dup (5K01038-MSD1)										
Chloride	130	10.6	mg/kg dry	26.4	86.8	164	62-157	12.2	25	Q-15

North Creek Analytical - Bothell

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Environmental Laboratory Network

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9200 fax 425.420.9210
Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9318 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 17:25

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit Limit	Notes
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Batch 5J31083: Prepared 10/31/05 Using Dry Weight

Blank (5J31083-BLK1)

Dry Weight 99.8 1.00 %

Batch 5J31084: Prepared 10/31/05 Using Dry Weight

Blank (5J31084-BLK1)

Dry Weight 100 1.00 %

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425.420.9200 fax 425.420.9210
Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project: Maralco
Project Number: 33757742
Project Manager: Vance Atkins

Reported:
11/14/05 17:25

Notes and Definitions

- F-01 No flash detected up to 100 °C
- Q-01 The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
- Q-03 The percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte already present in the sample.
- Q-14 Visual examination indicates the RPD and/or matrix spike recovery is outside the control limit due to a non-homogeneous sample matrix.
- Q-15 Analyses are not controlled on matrix spike RPD and/or percent recoveries when the sample concentration is significantly higher than the spike level.
- Q-18 The method blank contains analyte at a concentration above the MRL. This concentration is less than 5% of the sample result, which is negligible according to method criteria.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

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 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 20332 Empire Ave, Ste F1, Bend, OR 97701-5712
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 541-383-9310 FAX 382-7588
 907-363-9200 FAX 363-9210

CHAIN OF CUSTODY REPORT

Work Order #: B5J0465

NCA CLIENT: URS CORP.		INVOICE TO: URS												TURNAROUND REQUEST													
REPORT TO: Vance Atkins														In Business Days *													
ADDRESS: 1501 4th Ave., Suite 1400 Seattle, WA 98101														Organic & Inorganic Analyses													
PHONE: 206-438-2012 FAX: 206-438-2699		P.O. NUMBER: 3325 7742.00001												<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>													
PROJECT NAME: Maralco		PRESERVATIVE												Petroleum Hydrocarbon Analyses													
PROJECT NUMBER: 3325 7742														<input type="checkbox"/>													
SAMPLED BY: Matt Hammer		REQUESTED ANALYSES												OTHER Specify:													
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Cu	Fe	Mn	Zn	As	Pb	Cr(6+)	Cr(3+)	Al	Ag	Bi	AsH ₃	pH	TG/NH ₃	TG/NO _x	TG/PC	TG/PA	TG/TE	TG/TE	TG/PC	TG/PA	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WOID	
1 B-12-S	10-21-05 0755	X	X	X	X																			SOIL	4	0-5	01
2 B-12-S	0800	X	X	X	X																				4	5-10	02
3 B-12-D	0805	X	K	X	X																				4	10-14	03
4 B-13-S	0830	X	X	X	X																				4	0-5	04
5 B-13-D	0835	X	X	X	X																				4	5-10	05
6 B-14-S	0845	X	K	X	X																				4	0-5	06
7 B-14-D	0850	X	X	X	X																				4	5-10	07
8 B-15-S	0900	X	X	X	X																				4	0-4	08
9 B-15-D	0905	X	X	X	X																				4	4-8	09
10 B-18-S	0920	X	X	X	X																				5	0-6 (MSHS)	10
RELEASED BY: <i>M. Hammer</i>		DATE:				RECEIVED BY: <i>Ch 8</i>				DATE:																	
PRINT NAME: Matt Hammer	FIRM: URS					TIME:					PRINT NAME: Vance Atkins	FIRM: URC	TIME: 1405														
RELEASED BY: <i>Ch 8</i>		DATE: 10-21-05				TIME:	RECEIVED BY: <i>Colette Weaver</i>				DATE: 10-21-05																
PRINT NAME: Vance Atkins	FIRM: URS					TIME: 1500					PRINT NAME: Colette Weaver	FIRM: NCA	TIME: 1500														
ADDITIONAL REMARKS: TOTAL METALS: Cu, Ni, Zn, Na, K ; hold biomass pending results of other analyses ; contact Vance Atkins w/ questions 206-619-5957												TEMP:															
												PAGE	/	OF													



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0 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: 3520465

NCA CLIENT: URS Corp. REPORT TO: Vance Atkins ADDRESS: 1509 4th Ave, Suite 1400 Seattle WA 98101 PHONE: 206-438-2012 FAX: 206-438-2699		INVOICE TO: URS P.O. NUMBER: 3325 7742.00001		TURNAROUND REQUEST In Business Days *	
PROJECT NAME: Marader		PRESERVATIVE		<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 <input type="checkbox"/> 17 <input type="checkbox"/> 18 <input type="checkbox"/> 19 <input type="checkbox"/> 20 <input type="checkbox"/> 21 <input type="checkbox"/> 22 <input type="checkbox"/> 23 <input type="checkbox"/> 24 <input type="checkbox"/> 25 <input type="checkbox"/> 26 <input type="checkbox"/> 27 <input type="checkbox"/> 28 <input type="checkbox"/> 29 <input type="checkbox"/> 30 <input type="checkbox"/> 31 <input type="checkbox"/> 32 <input type="checkbox"/> 33 <input type="checkbox"/> 34 <input 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SUBCONTRACT ORDER
North Creek Analytical - Bothell

B5J0465

55J0156

SENDING LABORATORY:

North Creek Analytical - Bothell
11720 North Creek Parkway North, Suite 400
Bothell, WA 98011-8223
Phone: (425) 420-9200
Fax: (425) 420-9210
Project Manager: Jeff Gerdes

RECEIVING LABORATORY:

North Creek Analytical - Spokane
11922 E 1st Ave
Spokane, WA/USA 99206
Phone :509-924-9200
Fax: 509-924-9290

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: B5J0465-18	Soil	Sampled: 10/21/05 12:55	[REDACTED]	
Ignitability-1010	11/03/05 17:00	11/18/05 12:55		
<i>Containers Supplied:</i>				
4 oz. jar (A)				
Sample ID: B5J0465-19	Soil	Sampled: 10/21/05 13:00	[REDACTED]	
Ignitability-1010	11/03/05 17:00	11/18/05 13:00		
<i>Containers Supplied:</i>				
4 oz. jar (A)				

Colette Weaver 10-24-05 
Released By Date Received By Date
2.5°C

Released By Date Received By Date