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**FINAL REPORT
VOLUME 2 OF 2**

**RESULTS OF ADDITIONAL SOIL
AND GROUNDWATER
INVESTIGATIONS AND
GROUNDWATER MONITORING
PLAN, UPLAND PORTION OF
SUBUNIT 2A, RICHMOND FIELD
STATION, RICHMOND, CALIFORNIA
(TASKS 2A & 2B, RWQCB ORDER
NO. 01-102)**

Prepared for
University of California Berkeley
Environment, Health, and Safety
317 University Hall, #1150
Berkeley, California 94720

November 21, 2001

URS

URS Corporation
500 12th Street, Suite 200
Oakland, California 94607

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51.09967067.00

Appendix B
QA/QC Review

The quality assurance/quality control (QA/QC) review process is used to evaluate the quality and usability of the analytical data. A summary of the parameters that were reviewed as part of the QA/QC evaluation process is provided below. Thereafter, a brief explanation is provided of the data qualifiers that were assigned to results during the QA/QC process. Finally, a summary is provided of the qualified sample results, by sample matrix and by analytical method. The analytical data that were qualified are summarized in Table B-1.

Summary of QA/QC Review Parameters

Method Holding Times

The analytical methods used for the investigation have prescribed holding times. The method holding time is defined as the maximum amount of time after collection that a sample may be held prior to extraction and/or analysis. Sample integrity becomes questionable for samples extracted and/or analyzed outside of the prescribed holding times due to degradation and/or volatilization of the sample. The analytical results of such samples extracted and/or analyzed outside the prescribed method holding time are suspect. The QA/QC review identifies results with exceeded method holding times.

Method Blanks

Method blanks are prepared in the laboratory using deionized, distilled (Reagent Grade Type II) water. Method blanks are extracted and/or analyzed following the same procedures as an environmental sample. Analysis of the method blank indicates potential sources of contamination from laboratory procedures (e.g. contaminated reagents, improperly cleaned laboratory equipment) or persistent contamination due to the presence of certain compounds in the ambient laboratory environment. The QA/QC review identifies method blanks with detections of target analytes and evaluates the effect of the detections on sample results.

Matrix Spikes and Laboratory Control Samples

Matrix spikes (MSs), matrix spike duplicates (MSDs), laboratory control samples (LCSs) and laboratory control sample duplicates (LCSDs) are analyzed by the laboratory to evaluate the accuracy and precision of the sample extraction and analysis procedures and to evaluate potential matrix interference. Matrix interference, the effect of the sample matrix on the analysis, may partially or completely mask the response of analytical instrumentation to the target analyte(s). Matrix interference may have a varying impact on the accuracy and precision of the extraction and/or analysis procedures, and may bias the sample results high or low.

The MS is prepared by adding a known quantity of the target compound(s) to a sample. The sample is then extracted and/or analyzed as a typical environmental sample and the results are reported as percent recovery. The spike percent recovery is defined as:

$$\text{Recovery (\%)} = \frac{\text{spike analysis result} - \text{original sample concentration}}{\text{concentration of spike addition}} \times 100\%$$

MS recoveries are reviewed for compliance with laboratory-established control limits to evaluate the accuracy of the extraction and/or analysis procedures.

LCSs are prepared exactly like MSs using a clean control matrix rather than an environmental sample. Typical control matrices include Reagent Grade Type II water and clean sand. LCSs are used to evaluate laboratory accuracy independent of matrix effects.

The QA/QC review identifies spike recoveries outside laboratory control limits and evaluates the effect of these recoveries on the sample results.

Laboratory Duplicate Analyses

Duplicate analyses are performed by the laboratory to evaluate the precision of analytical procedures. The laboratory may perform MSD and/or LCSD analyses.

Precision is evaluated by calculating a relative percent difference (RPD) using the following equation:

$$\text{RPD (\%)} = \left| \frac{(\text{Spike Concentration} - \text{Spike Duplicate Concentration})}{\frac{1}{2}(\text{Spike Concentration} + \text{Spike Duplicate Concentration})} \right| \times 100\%$$

The RPDs are compared to laboratory-established control limits to evaluate analytical precision. The QA/QC review identifies RPDs outside laboratory control limits and evaluates the effect of these recoveries on the sample results.

Surrogate Recoveries

Surrogates are organic compounds that are similar to the target analytes in terms of their chemical structures and response to the analytical instrumentation, but are not usually detected in environmental samples. Surrogates are added to each environmental and laboratory QC sample to monitor the effect of the matrix on the accuracy of the extraction and/or analysis. Results for surrogate analyses are reported in terms of percent recovery (which is defined above). Reported recoveries are compared to laboratory-established control limits to evaluate sample-specific accuracy. The QA/QC review identifies surrogate recoveries outside laboratory control limits and evaluates the effect of these recoveries on the sample results.

Explanation of Analytical Data Qualifiers

The analytical data were reviewed and qualified following USEPA guidelines for organic and inorganic data review (USEPA, 1999, 1994). The qualifiers assigned to results during the QA/QC process are defined below.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
- R The data are unusable.

In the section below, results qualified as estimated indicate that a "J" or "UJ" qualifier was assigned to the results.

Summary of Qualified Analytical Data

The qualified data by matrix and analytical method are summarized. A complete summary of the qualified data is included in Table B-1.

Water Samples

- Qualification of USEPA Method 6010B (silver) results as estimated was due to low MS recovery that indicates a potential low bias.

Sediment Samples

- Qualification of USEPA Method 6010B (selenium) results as estimated was due to low MS recovery that indicates a potential low bias.

Cinder Samples

- Qualification of USEPA Method 6010B (antimony and selenium) results as estimated was due to low MS/MSD recoveries that indicate a potential low bias.
- Qualification of USEPA Method 9045C (pH) results as rejected because samples were analyzed outside of maximum holding time.

In summary, the QA/QC review found the data to be of acceptable quality, with no limitations for use with the exception of the rejected pH data. Data of acceptable quality include results qualified as estimated.

References

USEPA. 1994. Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. February.

USEPA. 1999. Contract Laboratory Program National Functional Guidelines for Organic Data Review. October.

Table B-1
Summary of Qualified Analytical Data
U.C. Berkeley, Richmond Field Station

Sample ID	Matrix	Method	Analyte	Qualifier	Explanation
A4-2-4	Cinder	6010B	Antimony	UJ	MS/MSD recoveries (11% and 8%) out of control (15%-142%)
PH1-CINDER	Cinder	6010B	Selenium	J	MS/MSD recoveries (22% and 25%) out of control (40%-118%)
PH4-CINDER	Cinder	6010B	Selenium	J	MS/MSD recoveries (22% and 25%) out of control (40%-118%)
PH7-CINDER	Cinder	6010B	Selenium	J	MS/MSD recoveries (22% and 25%) out of control (40%-118%)
PH1-CINDER	Cinder	9045C	pH	R	Analyzed outside of holding time.
PH4-CINDER	Cinder	9045C	pH	R	Analyzed outside of holding time.
PH7-CINDER	Cinder	9045C	pH	R	Analyzed outside of holding time.
PH1-6.5-SED	Sediment	6010B	Selenium	J	MSD recovery (36%) out of control (40%-118%)
PH2-6.5-SED	Sediment	6010B	Selenium	J	MSD recovery (36%) out of control (40%-118%)
PH3-6.5-SED	Sediment	6010B	Selenium	J	MSD recovery (36%) out of control (40%-118%)
PH4-7-SED	Sediment	6010B	Selenium	J	MSD recovery (36%) out of control (40%-118%)
PH5-7-SED	Sediment	6010B	Selenium	J	MSD recovery (36%) out of control (40%-118%)
PH7-6-SED	Sediment	6010B	Selenium	J	MSD recovery (36%) out of control (40%-118%)
A4-14	Water	6010B	Silver	UJ	MS recovery (60%) out of control (72%-125%)
A4-15	Water	6010B	Silver	UJ	MS recovery (60%) out of control (72%-125%)
A4-6	Water	6010B	Silver	UJ	MS recovery (60%) out of control (72%-125%)
A4-7	Water	6010B	Silver	UJ	MS recovery (60%) out of control (72%-125%)

Appendix C
Laboratory Analytical Reports

Note: The laboratory analytical reports in this appendix contain analytical results for some locations outside of the subject area which are not discussed in this report.



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

A N A L Y T I C A L R E P O R T

Prepared for:

URS Corporation
500 12th Street
Suite 200
Oakland, CA 94607

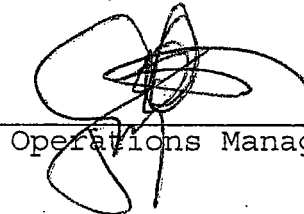
Date: 19-JUN-01
Lab Job Number: 152303
Project ID: 510996706700
Location: UCB-Richmond Field Sta.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by:


Project Manager

Reviewed by:


Operations Manager

This package may be reproduced only in its entirety.

Laboratory Numbers: **152303**
Client: **URS Corporation**
Location: **UCB-Richmond Field Sta.**
Project ID: **510996706700**

Sampled Date: **05/24/01**
Received Date: **06/01/01**

CASE NARRATIVE

This hardcopy data package contains sample and QC results for six soil samples, which were received from the site referenced above on June 01, 2001. The samples were received cold and intact. All results have been corrected for moisture.

Metals (EPA 6000/7000): The matrix spike samples were not analyzed as the concentration of the target analyte in the matrix rendered the spike amount insignificant. The blank spike and blank spike duplicate recoveries pass all criteria. For arsenic, lead and zinc, the matrix spike recoveries are considered not meaningful (NM) as the sample concentrations for these elements are four times greater than the spiked level. Low selenium matrix spike duplicate recovery was observed. No other analytical problems were encountered.

152303



500 12th Street, Suite 200
Oakland, CA 94607-4014
(510) 893-3600

Chain of Custody Record

PROJECT NO. 510996706700

SAMPLERS: (Signature) *Capeland*

ANALYSES

DATE TIME SAMPLE NUMBER

Sample Matrix (S)oil, (W)ater, (A)ir

EPA Method

EPA Method

EPA Method

EPA Method

PP metals

Number of Containers

REMARKS
(Sample preservation, handling procedures, etc.)

-1
-2
-3
-4
-5
-6

5/24/01
↓
↓
↓
↓
↓
↓

PH1-6.5-Sed
PH2-6.5-Sed
PH3-6.5-Sed
PH4-7-Sed
PH5-7-Sed
PH7-6-Sed

S
↓
↓
↓
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X
↓
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↓
↓
↓

1
1
1
1
1
1

Normal TAT

Results to
Bill Capeland
(510) 874-3892

<input checked="" type="checkbox"/> Received	<input checked="" type="checkbox"/> On Ice
<input checked="" type="checkbox"/> Cold	<input type="checkbox"/> Ambient
<input type="checkbox"/> Intact	

Preservation Correct?		
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A

TOTAL NUMBER OF CONTAINERS 6

RELINQUISHED BY: (Signature) <i>Capeland</i>	DATE/TIME 5/11/01 1645	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
METHOD OF SHIPMENT:	SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY (Signature) <i>Ag...</i>	DATE/TIME 5/11/01 1645	

Percent Moisture Summary Report

Date: 06-JUN-01
 Batch: 64096
 Analyst: MR

Sample	Method	Date	Tare(g)	Wet(g)	Dry(g)	Percent Solids	Percent Moisture
152271-001	CLP SOW 390	06-JUN-01	15.9741	22.6807	22.3458	95	5
152271-002	CLP SOW 390	06-JUN-01	15.8011	23.9513	23.6545	96	4
152271-003	CLP SOW 390	06-JUN-01	15.1957	22.4806	21.6449	89	11
152271-004	CLP SOW 390	06-JUN-01	15.9789	23.1925	22.7482	94	6
152271-005	CLP SOW 390	06-JUN-01	15.3074	22.5267	21.4384	85	15
152271-006	CLP SOW 390	06-JUN-01	15.0276	23.174	22.4181	91	9
152271-007	CLP SOW 390	06-JUN-01	15.0407	22.5958	21.2417	82	18
152292-001	CLP SOW 390	06-JUN-01	15.3415	23.1311	22.2943	89	11
152292-002	CLP SOW 390	06-JUN-01	15.3106	22.1978	21.6456	92	8
152292-003	CLP SOW 390	06-JUN-01	15.6773	22.7931	21.4766	81	19
152292-004	CLP SOW 390	06-JUN-01	15.9001	22.3622	21.8901	93	7
152292-005	CLP SOW 390	06-JUN-01	15.009	22.8077	21.9307	89	11
152303-001	CLP SOW 390	06-JUN-01	15.2115	22.0343	20.1665	73	27
152303-002	CLP SOW 390	06-JUN-01	15.0101	22.5652	20.3606	71	29
152303-003	CLP SOW 390	06-JUN-01	15.3352	22.4286	20.1229	67	33
152303-004	CLP SOW 390	06-JUN-01	15.5703	22.5178	18.7525	46	54
152303-005	CLP SOW 390	06-JUN-01	14.9716	22.225	19.961	69	31
152303-006	CLP SOW 390	06-JUN-01	15.7296	22.1581	19.5718	60	40
152309-001	CLP SOW 390	06-JUN-01	15.6324	23.0133	20.7777	70	30
QC147180	CLP SOW 390	06-JUN-01	15.7491	23.5677	23.1966	95	5
of 152271-001						RPD: 0.3%	5.1%

Priority Pollutant Metals

Lab #:	152303	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	PH1-6.5-SED	Sampled:	05/24/01
Lab ID:	152303-001	Received:	06/01/01
Matrix:	Soil	Prepared:	06/04/01
Units:	mg/Kg	Analyzed:	06/04/01
Basis:	dry		

Moisture: 27%

Analyte	Result	RL	Diln Fac	Batch#	Prep	Analysis
Antimony	3.9	3.6	1.000	64041	EPA 3050	EPA 6010B
Arsenic	320	0.30	1.000	64041	EPA 3050	EPA 6010B
Beryllium	0.14	0.12	1.000	64041	EPA 3050	EPA 6010B
Cadmium	11	0.30	1.000	64041	EPA 3050	EPA 6010B
Chromium	23	0.61	1.000	64041	EPA 3050	EPA 6010B
Copper	1,700	12	20.00	64041	EPA 3050	EPA 6010B
Lead	320	0.18	1.000	64041	EPA 3050	EPA 6010B
Mercury	22	2.7	100.0	64052	METHOD	EPA 7471
Nickel	37	1.2	1.000	64041	EPA 3050	EPA 6010B
Selenium	2.6 J	0.30	1.000	64041	EPA 3050	EPA 6010B
Silver	3.5	0.30	1.000	64041	EPA 3050	EPA 6010B
Thallium	2.0	0.30	1.000	64041	EPA 3050	EPA 6010B
Zinc	3,000	24	20.00	64041	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	152303	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	PH2-6.5-SED	Sampled:	05/24/01
Lab ID:	152303-002	Received:	06/01/01
Matrix:	Soil	Prepared:	06/04/01
Units:	mg/Kg	Analyzed:	06/04/01
Basis:	dry		

Moisture: 29%

Analyte	Result	RL	Diln Fac	Batch#	Prep	Analysis
Antimony	ND	4.2	1.000	64041	EPA 3050	EPA 6010B
Arsenic	75	0.35	1.000	64041	EPA 3050	EPA 6010B
Beryllium	0.24	0.14	1.000	64041	EPA 3050	EPA 6010B
Cadmium	4.2	0.35	1.000	64041	EPA 3050	EPA 6010B
Chromium	34	0.71	1.000	64041	EPA 3050	EPA 6010B
Copper	850	0.71	1.000	64041	EPA 3050	EPA 6010B
Lead	150	0.21	1.000	64041	EPA 3050	EPA 6010B
Mercury	140	6.0	200.0	64052	METHOD	EPA 7471
Nickel	45	1.4	1.000	64041	EPA 3050	EPA 6010B
Selenium	0.76 J	0.35	1.000	64041	EPA 3050	EPA 6010B
Silver	1.1	0.35	1.000	64041	EPA 3050	EPA 6010B
Thallium	ND	0.35	1.000	64041	EPA 3050	EPA 6010B
Zinc	830	28	20.00	64041	EPA 3050	EPA 6010B

D= Not Detected

RL= Reporting Limit

Priority Pollutant Metals

Lab #:	152303	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	PH3-6.5-SED	Sampled:	05/24/01
Lab ID:	152303-003	Received:	06/01/01
Matrix:	Soil	Prepared:	06/04/01
Units:	mg/Kg	Analyzed:	06/04/01
Basis:	dry		

Moisture: 33%

Analyte	Result	RL	Diln Fac	Batch#	Prep	Analysis
Antimony	6.0	4.1	1.000	64041	EPA 3050	EPA 6010B
Arsenic	560	0.35	1.000	64041	EPA 3050	EPA 6010B
Beryllium	ND	0.14	1.000	64041	EPA 3050	EPA 6010B
Cadmium	25	0.35	1.000	64041	EPA 3050	EPA 6010B
Chromium	27	0.69	1.000	64041	EPA 3050	EPA 6010B
Copper	2,000	14	20.00	64041	EPA 3050	EPA 6010B
Lead	210	0.21	1.000	64041	EPA 3050	EPA 6010B
Mercury	390	12	400.0	64052	METHOD	EPA 7471
Nickel	35	1.4	1.000	64041	EPA 3050	EPA 6010B
Selenium	38 J	0.35	1.000	64041	EPA 3050	EPA 6010B
Silver	7.0	0.35	1.000	64041	EPA 3050	EPA 6010B
Thallium	1.9	0.35	1.000	64041	EPA 3050	EPA 6010B
Zinc	3,800	28	20.00	64041	EPA 3050	EPA 6010B

D= Not Detected

RL= Reporting Limit

Priority Pollutant Metals

Lab #:	152303	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	PH4-7-SED	Sampled:	05/24/01
Lab ID:	152303-004	Received:	06/01/01
Matrix:	Soil	Prepared:	06/04/01
Units:	mg/Kg	Analyzed:	06/04/01
Basis:	dry		

Moisture: 54%

Analyte	Result	RL	Diln Fac	Batch#	Prep	Analysis
Antimony	9.9	6.1	1.000	64041	EPA 3050	EPA 6010B
Arsenic	1,600	0.51	1.000	64041	EPA 3050	EPA 6010B
Beryllium	0.46	0.20	1.000	64041	EPA 3050	EPA 6010B
Cadmium	27	0.51	1.000	64041	EPA 3050	EPA 6010B
Chromium	110	1.0	1.000	64041	EPA 3050	EPA 6010B
Copper	4,100	20	20.00	64041	EPA 3050	EPA 6010B
Lead	570	0.30	1.000	64041	EPA 3050	EPA 6010B
Mercury	500	18	400.0	64052	METHOD	EPA 7471
Nickel	120	2.0	1.000	64041	EPA 3050	EPA 6010B
Selenium	28 LA	0.51	1.000	64041	EPA 3050	EPA 6010B
Silver	6.4	0.51	1.000	64041	EPA 3050	EPA 6010B
Thallium	ND	0.51	1.000	64041	EPA 3050	EPA 6010B
Zinc	6,500	41	20.00	64041	EPA 3050	EPA 6010B

ND= Not Detected

RL= Reporting Limit

Priority Pollutant Metals

Lab #:	152303	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	PH5-7-SED	Sampled:	05/24/01
Lab ID:	152303-005	Received:	06/01/01
Matrix:	Soil	Prepared:	06/04/01
Units:	mg/Kg	Analyzed:	06/04/01
Basis:	dry		

Moisture: 31%

Analyte	Result	RL	Diln Fac	Batch#	Prep	Analysis
Antimony	ND	3.9	1.000	64041	EPA 3050	EPA 6010B
Arsenic	210	0.33	1.000	64041	EPA 3050	EPA 6010B
Beryllium	ND	0.13	1.000	64041	EPA 3050	EPA 6010B
Cadmium	13	0.33	1.000	64041	EPA 3050	EPA 6010B
Chromium	12	0.65	1.000	64041	EPA 3050	EPA 6010B
Copper	1,600	13	20.00	64041	EPA 3050	EPA 6010B
Lead	110	0.20	1.000	64041	EPA 3050	EPA 6010B
Mercury	94	3.0	100.0	64052	METHOD	EPA 7471
Nickel	32	1.3	1.000	64041	EPA 3050	EPA 6010B
Selenium	1.7 J	0.33	1.000	64041	EPA 3050	EPA 6010B
Silver	3.4	0.33	1.000	64041	EPA 3050	EPA 6010B
Thallium	1.2	0.33	1.000	64041	EPA 3050	EPA 6010B
Zinc	2,600	26	20.00	64041	EPA 3050	EPA 6010B

ND= Not Detected

RL= Reporting Limit

Priority Pollutant Metals

Lab #:	152303	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	PH7-6-SED	Sampled:	05/24/01
Lab ID:	152303-006	Received:	06/01/01
Matrix:	Soil	Prepared:	06/04/01
Units:	mg/Kg	Analyzed:	06/04/01
Basis:	dry		

Moisture: 40%

Analyte	Result	RL	Diln Fac	Batch#	Prep	Analysis
Antimony	16	4.5	1.000	64041	EPA 3050	EPA 6010B
Arsenic	1,000	0.38	1.000	64041	EPA 3050	EPA 6010B
Beryllium	0.18	0.15	1.000	64041	EPA 3050	EPA 6010B
Cadmium	34	0.38	1.000	64041	EPA 3050	EPA 6010B
Chromium	56	0.75	1.000	64041	EPA 3050	EPA 6010B
Copper	2,200	38	50.00	64041	EPA 3050	EPA 6010B
Lead	410	0.23	1.000	64041	EPA 3050	EPA 6010B
Mercury	140	3.1	100.0	64052	METHOD	EPA 7471
Nickel	81	1.5	1.000	64041	EPA 3050	EPA 6010B
Selenium	50 J	0.38	1.000	64041	EPA 3050	EPA 6010B
Silver	11	0.38	1.000	64041	EPA 3050	EPA 6010B
Thallium	ND	0.38	1.000	64041	EPA 3050	EPA 6010B
Zinc	6,700	75	50.00	64041	EPA 3050	EPA 6010B

ND= Not Detected

RL= Reporting Limit

Priority Pollutant Metals

Lab #:	152303	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 3050
Project#:	510996706700	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC146956	Batch#:	64041
Matrix:	Miscell.	Prepared:	06/04/01
Units:	mg/Kg	Analyzed:	06/04/01
Basis:	wet		

Analyte	Result	RL
Antimony	ND	3.0
Arsenic	ND	0.25
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Copper	ND	0.50
Lead	ND	0.15
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Zinc	ND	1.0

ND= Not Detected

RL= Reporting Limit

Priority Pollutant Metals

Lab #:	152303	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Basis:	wet
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC147005	Batch#:	64052
Matrix:	Soil	Prepared:	06/04/01
Units:	mg/Kg	Analyzed:	06/04/01

Result	RL
ND	0.00020



Priority Pollutant Metals

Lab #:	152303	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 3050
Project#:	510996706700	Analysis:	EPA 6010B
Field ID:	PH7-6-SED	Batch#:	64041
MSS Lab ID:	152303-006	Sampled:	05/24/01
Units:	mg/Kg	Received:	06/01/01
Basis:	dry	Prepared:	06/04/01
Diln Fac:	1.000	Analyzed:	06/04/01

Type: MS Matrix: Soil
 Lab ID: QC146959 Moisture: 40%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	16.06	143.1	37.91	15	15-112
Arsenic	1,048	71.53	1,152	145 NM	51-114
Beryllium	0.1817	3.577	3.169	84	56-116
Cadmium	34.09	14.31	45.85	82	35-128
Chromium	56.41	143.1	172.4	81	23-141
Copper	2,183	17.88	2,046 >LR	-769 NM	36-132
Lead	408.0	143.1	547.2	97	31-133
Nickel	81.45	35.77	106.6	70	32-132
Selenium	49.92	71.53	82.98	46	40-118
Silver	11.31	14.31	23.25	83	36-137
Thallium	<0.3500	71.53	55.22	77	55-109
Zinc	6,712	35.77	1,967 >LR	-13267 NM	30-13

Type: MSD Matrix: Miscell.
 Lab ID: QC146960 Moisture: 40%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	166.7	45.75	18	15-112	5	48
Arsenic	83.33	1,200	182 NM	51-114	3	39
Beryllium	4.167	3.533	80	56-116	4	21
Cadmium	16.67	45.92	71	35-128	5	27
Chromium	166.7	185.0	77	23-141	4	34
Copper	20.83	1,908 >LR	-1320 NM	36-132	NC	38
Lead	166.7	535.8	77	31-133	6	40
Nickel	41.67	110.0	69	32-132	2	31
Selenium	83.33	80.00	36 *	40-118	13	39
Silver	16.67	24.25	78	36-137	5	46
Thallium	83.33	62.17	75	55-109	3	45
Zinc	41.67	2,242 >LR	-10729 NM	30-132	NC	3

*= Value outside of QC limits; see narrative

NC= Not Calculated

NM= Not Meaningful

LR= Response exceeds instrument's linear range

RPD= Relative Percent Difference

Priority Pollutant Metals

Lab #:	152303	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	64052
Units:	mg/Kg	Prepared:	06/04/01
Basis:	wet	Analyzed:	06/04/01

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC147006	0.005000	0.005300	106	80-114		
BSD	QC147007	0.005000	0.005560	111	80-114	5	20



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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

A N A L Y T I C A L R E P O R T

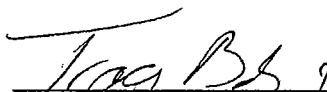
Prepared for:

URS Corporation
500 12th Street
Suite 200
Oakland, CA 94607

Date: 19-JUN-01
Lab Job Number: 152309
Project ID: 510996706700
Location: UCB-Richmond Field Sta.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by:


Project Manager

Reviewed by:


Operations Manager

This package may be reproduced only in its entirety.

Laboratory Numbers: **152309**
Client: **URS Corporation**
Location: **UCB-Richmond Field Sta.**
Project ID: **510996706700**

Sampled Date: **05/30/01**
Received Date: **05/30/01**

CASE NARRATIVE

This hardcopy data package contains sample and QC results for one soil sample, which was received from the site referenced above on May 30, 2001. The sample was received cold and intact. All results have been corrected for moisture.

TEH (EPA 8015M): No analytical problems were encountered.

PCBs (EPA 8082): No analytical problems were encountered.

Mercury (EPA 7471): For the sample PH16-SED (CT# 152309-001), the matrix spike recoveries for mercury are considered not meaningful (NM) as the sample concentration for this element is four times greater than the spiked level. The blank spike and blank spike duplicate recoveries pass criteria. No other analytical problems were encountered.

Percent Moisture Summary Report

Date: 06-JUN-01
Batch: 64096
Analyst: MR

Sample	Method	Date	Tare(g)	Wet(g)	Dry(g)	Percent Solids	Percent Moisture
152271-001	CLP SOW 390	06-JUN-01	15.9741	22.6807	22.3458	95	5
152271-002	CLP SOW 390	06-JUN-01	15.8011	23.9513	23.6545	96	4
152271-003	CLP SOW 390	06-JUN-01	15.1957	22.4806	21.6449	89	11
152271-004	CLP SOW 390	06-JUN-01	15.9789	23.1925	22.7482	94	6
152271-005	CLP SOW 390	06-JUN-01	15.3074	22.5267	21.4384	85	15
152271-006	CLP SOW 390	06-JUN-01	15.0276	23.174	22.4181	91	9
152271-007	CLP SOW 390	06-JUN-01	15.0407	22.5958	21.2417	82	18
152292-001	CLP SOW 390	06-JUN-01	15.3415	23.1311	22.2943	89	11
152292-002	CLP SOW 390	06-JUN-01	15.3106	22.1978	21.6456	92	8
152292-003	CLP SOW 390	06-JUN-01	15.6773	22.7931	21.4766	81	19
152292-004	CLP SOW 390	06-JUN-01	15.9001	22.3622	21.8901	93	7
152292-005	CLP SOW 390	06-JUN-01	15.009	22.8077	21.9307	89	11
152303-001	CLP SOW 390	06-JUN-01	15.2115	22.0343	20.1665	73	27
152303-002	CLP SOW 390	06-JUN-01	15.0101	22.5652	20.3606	71	29
152303-003	CLP SOW 390	06-JUN-01	15.3352	22.4286	20.1229	67	33
152303-004	CLP SOW 390	06-JUN-01	15.5703	22.5178	18.7525	46	54
152303-005	CLP SOW 390	06-JUN-01	14.9716	22.225	19.961	69	31
152303-006	CLP SOW 390	06-JUN-01	15.7296	22.1581	19.5718	60	40
152309-001	CLP SOW 390	06-JUN-01	15.6324	23.0133	20.7777	70	30
QC147180	CLP SOW 390	06-JUN-01	15.7491	23.5677	23.1966	95	5
of 152271-001						RPD: 0.3%	5.1%

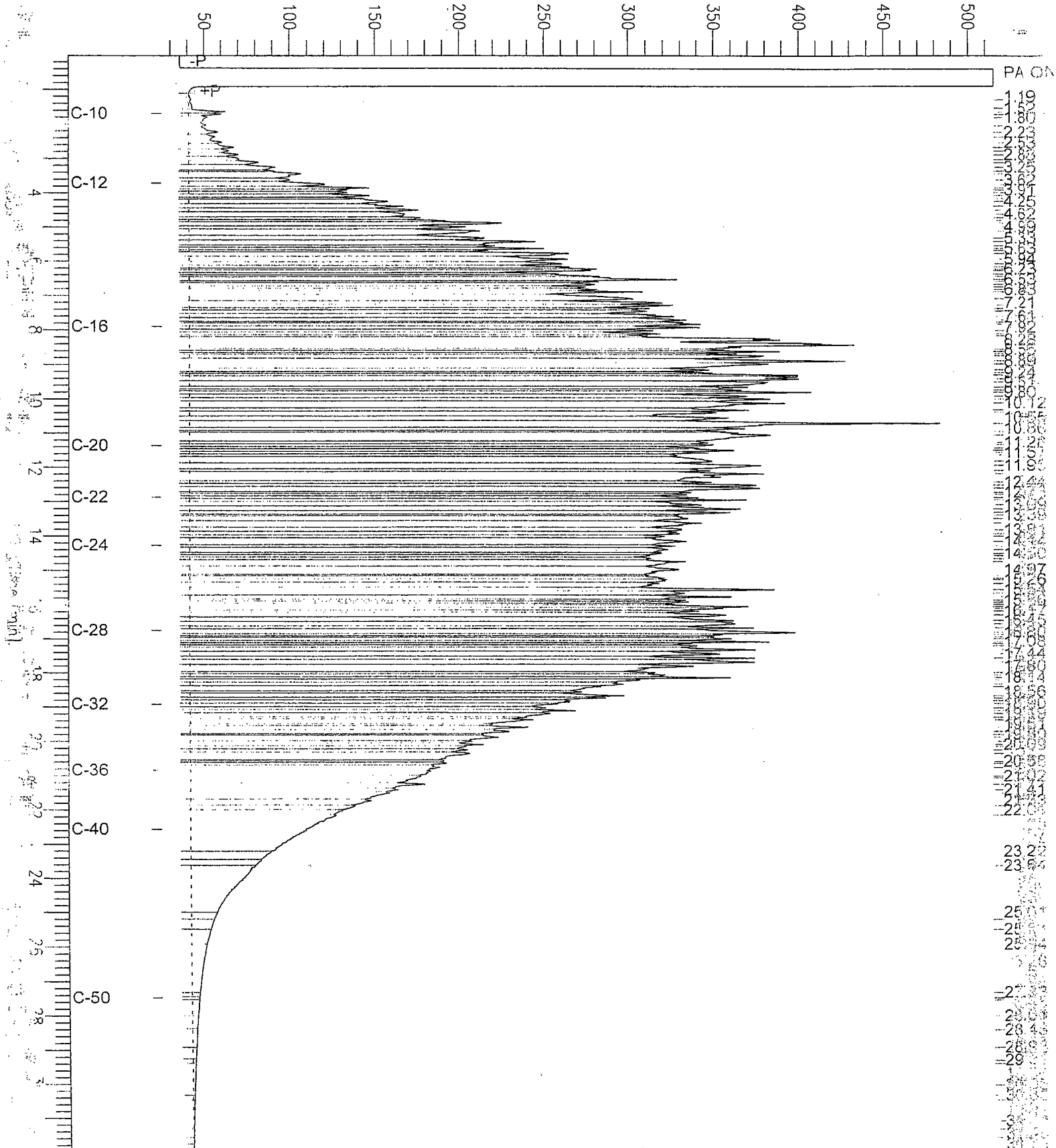
Chromatogram

Sample Name : 152309-001,64071
FileName : G:\GC13\CHB\157B029.RAW
Method : BTEH151.MTH
Start Time : 0.01 min
Scale Factor : 0.0

End Time : 31.91 min
Plot Offset : 25 mV

Sample #: 64071
Date : 06/07/2001 10:21 AM
Time of Injection: 06/07/2001 09:43 AM
Low Point : 24.82 mV
High Point : 515.11 mV
Plot Scale: 490.3 mV

Response [mV]



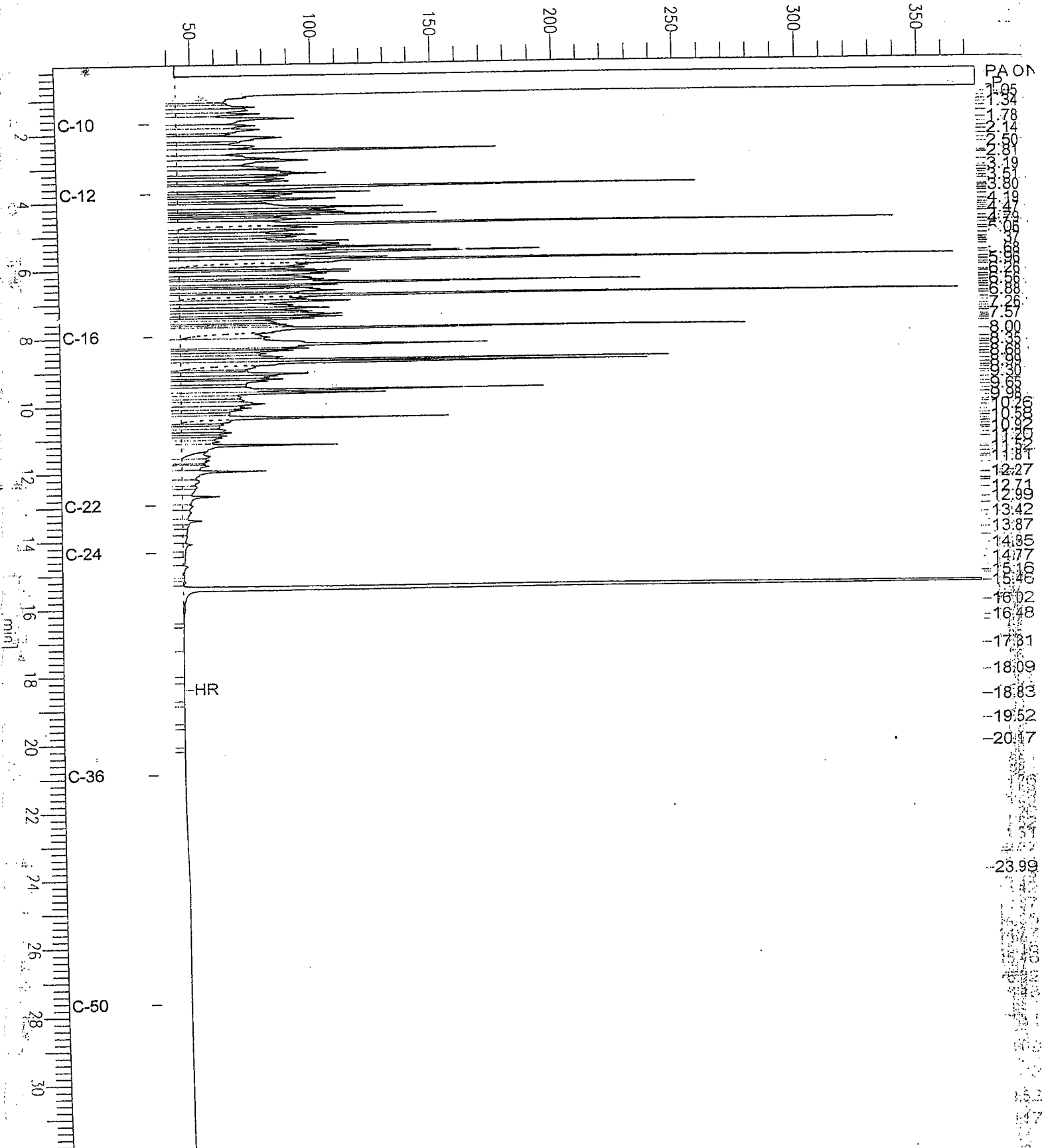
Chromatogram

File Name : ccv,01ws0904,dsl
File Name : G:\GC11\CHA\155A002.RAW
Method : ATEH145.MTH
Start Time : 0.01 min
Scale Factor : 0.0

End Time : 31.91 min
Plot Offset : 32 mV

Sample #: 500mg/l
Date : 6/4/01 11:29 AM
Time of Injection: 6/4/01 10:09 AM
Low Point : 32.36 mV
High Point : 374.06 mV
Plot Scale : 341.7 mV

Response [mV]



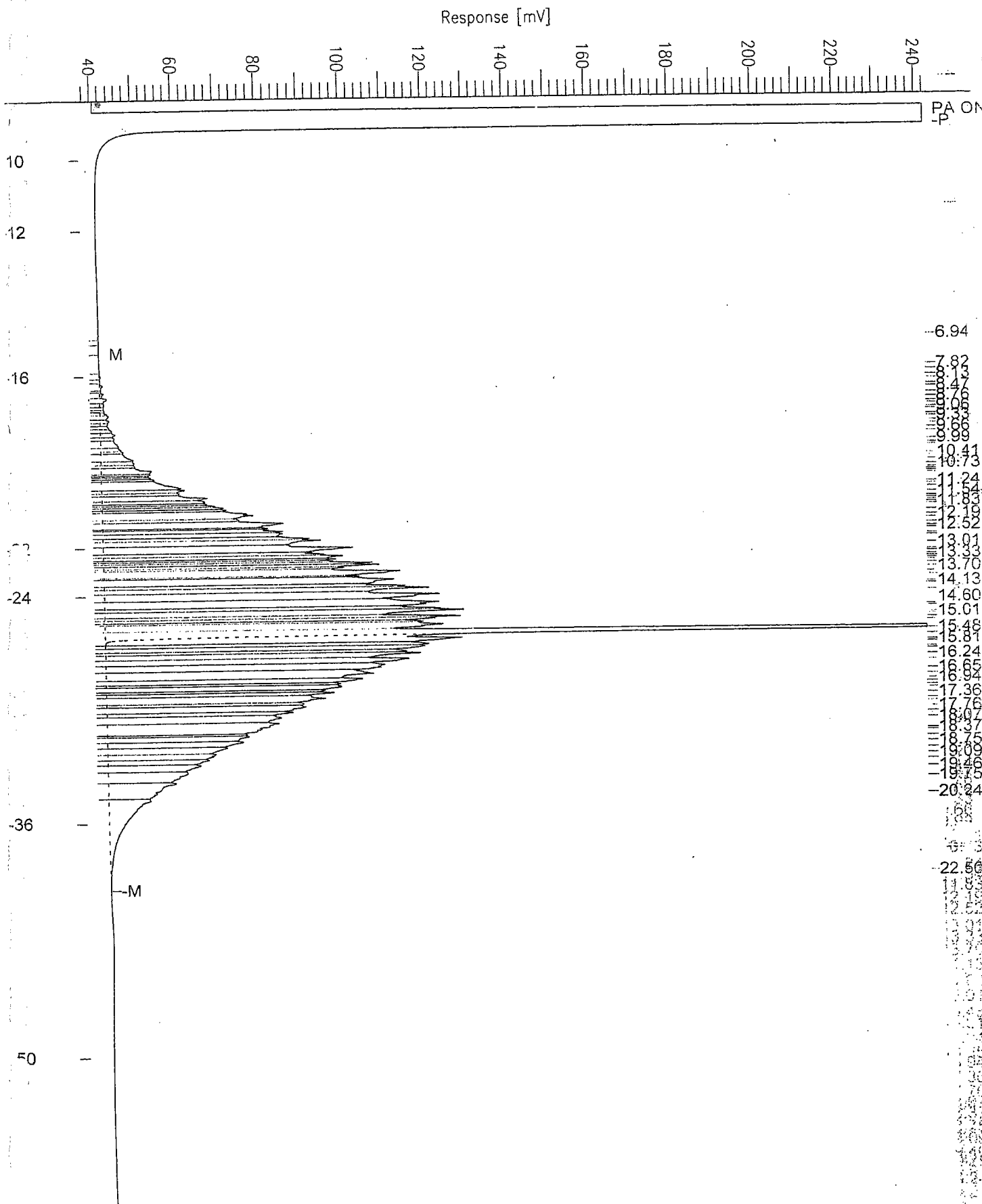
Chromatogram

scv,01ws1214,mo
G:\GC11\CHA\155A005.RAW
ATEH145.MTH
0.01 min
0.0

End Time : 31.91 min
Plot Offset: 37 mV

Sample #: 500mg/L
Date : 6/4/01 04:05 PM
Time of Injection: 6/4/01 03:31 PM
Low Point : 37.03 mV
High Point : 242.13 mV
Plot Scale: 205.1 mV

Page 1 of 1



Total Extractable Hydrocarbons

Lab #:	152309	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	SHAKER TABLE
Project#:	510996706700	Analysis:	EPA 8015M
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC147073	Batch#:	64071
Matrix:	Soil	Prepared:	06/04/01
Units:	mg/Kg	Analyzed:	06/05/01
Basis:	wet		

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	46.44	39.44	85	67-121

Surrogate	%REC	Limits
hexacosane	91	60-136

Total Extractable Hydrocarbons

Lab #:	152309	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	SHAKER TABLE
Project#:	510996706700	Analysis:	EPA 8015M
Field ID:	ZZZZZZZZZZ	Batch#:	64071
SS Lab ID:	152256-146	Sampled:	05/25/01
Matrix:	Soil	Received:	05/25/01
Units:	mg/Kg	Prepared:	06/04/01
Basis:	wet	Analyzed:	06/05/01
Diln Fac:	1.000		

Type: MS Lab ID: QC147074

Analyte	MS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	<0.7800	46.70	40.37	86	35-146

Surrogate	%REC	Limits
Hexacosane	94	60-136

Type: MSD Lab ID: QC147075

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	46.48	37.49	81	35-146	7	48

Surrogate	%REC	Limits
Hexacosane	88	60-136

Polychlorinated Biphenyls (PCBs)

Lab #:	152309	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 3550
Project#:	510996706700	Analysis:	EPA 8082
Field ID:	PH16-SED	Sampled:	05/30/01
Matrix:	Soil	Received:	05/30/01
Units:	ug/Kg	Prepared:	06/06/01
Patch#:	64114		

Sample Type:	SAMPLE	Diln Fac:	100.0
Lab ID:	152309-001	Analyzed:	06/08/01
Basis:	dry	Cleanup Method:	EPA 3665A
Mixture:	30%		

Analyte	Result	RL
Aroclor-1016	ND	1,700
Aroclor-1221	ND	1,700
Aroclor-1232	ND	1,700
Aroclor-1242	ND	1,700
Aroclor-1248	ND	1,700
Aroclor-1254	ND	1,700
Aroclor-1260	ND	1,700

Surrogate	%REC	Limits
TCMX	DO	39-150
Decachlorobiphenyl	DO	33-144

Sample Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC147238	Analyzed:	06/07/01
Basis:	wet	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	12
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	106	39-150
Decachlorobiphenyl	113	33-144

Polychlorinated Biphenyls (PCBs)

Lab #:	152309	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 3550
Project#:	510996706700	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC147239	Batch#:	64114
Matrix:	Soil	Prepared:	06/06/01
Units:	ug/Kg	Analyzed:	06/07/01
Basis:	wet		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1260	165.8	179.3	108	58-124

Surrogate	%REC	Limits
TCMX	111	39-150
Decachlorobiphenyl	118	33-144

Mercury by Cold Vapor AA

Lab #:	152309	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Batch#:	64115
Field ID:	PH16-SED	Sampled:	05/30/01
MSS Lab ID:	152309-001	Received:	05/30/01
Matrix:	Soil	Prepared:	06/06/01
Units:	mg/Kg	Analyzed:	06/06/01
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Basis	Moisture	RPD	Lim
BS	QC147247		0.5000	0.5010	100	80-114	wet			
BSD	QC147248		0.5000	0.5120	102	80-114	wet		2	35
MS	QC147249	38.36	0.6739	1.779 >LR	-5429	NM 62-135	dry	30%		
MSD	QC147250		0.6868	1.772 >LR	-5327	NM 62-135	dry	30%		NC 35

NC= Not Calculated

NM= Not Meaningful

>LR= Response exceeds instrument's linear range

RPD= Relative Percent Difference



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

A N A L Y T I C A L R E P O R T

Prepared for:

URS Corporation
500 12th Street
Suite 200
Oakland, CA 94607

Date: 21-JUN-01
Lab Job Number: 152431
Project ID: 510996706700
Location: UCB-Richmond Field Sta.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: Tracy Bobc
Project Manager

Reviewed by: [Signature]
Operations Manager

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URS

500 12th Street, Suite 100, Oakland, California 94607-4014
(510) 893-3600 Fax (510) 874-3268

Fax Transmittal

To: Tracy Babjar
Firm: C&T
Fax: 486-0532

Date: June 8, 2001

From: Bill Copeland, phone 510/874-3192

Total Number of Pages: 2

Subject: **Revised Chain of Custody**

Please analyze groundwater samples for dissolved PP metals rather than dissolved mercury only, as specified on the attached chain of custody. Thanks Tracy.

431
152341587



500 12th Street, Suite 200
Oakland, CA 94607-4014
(510) 893-3500

Chain of Custody Record

PROJECT NO. 510996706700

SAMPLERS: (Signature) *Stepeland*

DATE TIME SAMPLE NUMBER

Sample Matrix
(Soil, Water, Air)

ANALYSES							
EPA Method	EPA Method	EPA Method	EPA Method	Disolved	Mercury	pH	

Number of Containers

REMARKS
(Sample preservation, handling procedures, etc.)

-1
2
-3
4
5
-6
7

6/7	4:10	MF107-GW	W					X	X		
	4:15	MF108-GW									
	4:20	MF109-GW									
		MF110-GW									
		MF111-GW									
		MF112-GW									
		MF113-GW	↓					↓	↓		

PB filter
w/in 24 hrs

Results to
Bill Copeland
(510) 874-3192

Received On Ice
 Cold Ambient Intact
 W/N NO S9
 Preservation Correct?

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY: (Signature) <i>Stepeland</i>	DATE/TIME 6/7/01 7:50	RECEIVED BY: (Signature) <i>Tracy B...</i>	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
METHOD OF SHIPMENT:		SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY (Signature)	DATE/TIME

Priority Pollutant Metals

Lab #:	152431	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700		
Field ID:	MF107-GW	Sampled:	06/07/01
Lab ID:	152431-001	Received:	06/07/01
Matrix:	Filtrate	Prepared:	06/15/01
Units:	ug/L	Analyzed:	06/15/01
Diln Fac:	1.000		

Analyte	Result	RL	Batch#	Analysis
Antimony	ND	60	64311	EPA 6010B
Arsenic	13	5.0	64311	EPA 6010B
Beryllium	ND	2.0	64311	EPA 6010B
Cadmium	ND	5.0	64311	EPA 6010B
Chromium	ND	10	64311	EPA 6010B
Copper	ND	10	64311	EPA 6010B
Lead	ND	3.0	64311	EPA 6010B
Mercury	0.22	0.20	64325	EPA 7470A
Nickel	ND	20	64311	EPA 6010B
Selenium	ND	5.0	64311	EPA 6010B
Silver	ND	5.0	64311	EPA 6010B
Thallium	ND	5.0	64311	EPA 6010B
Zinc	ND	20	64311	EPA 6010B

Priority Pollutant Metals

Lab #:	152431	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700		
Field ID:	MF108-GW	Sampled:	06/07/01
Lab ID:	152431-002	Received:	06/07/01
Matrix:	Filtrate	Prepared:	06/15/01
Units:	ug/L	Analyzed:	06/15/01
Diln Fac:	1.000		

Analyte	Result	RL	Batch#	Analysis
Antimony	ND	60	64311	EPA 6010B
Arsenic	5.4	5.0	64311	EPA 6010B
Beryllium	ND	2.0	64311	EPA 6010B
Cadmium	ND	5.0	64311	EPA 6010B
Chromium	ND	10	64311	EPA 6010B
Copper	ND	10	64311	EPA 6010B
Lead	ND	3.0	64311	EPA 6010B
Mercury	ND	0.20	64325	EPA 7470A
Nickel	ND	20	64311	EPA 6010B
Selenium	ND	5.0	64311	EPA 6010B
Silver	ND	5.0	64311	EPA 6010B
Thallium	ND	5.0	64311	EPA 6010B
Zinc	ND	20	64311	EPA 6010B

ND= Not Detected

RL= Reporting Limit

Priority Pollutant Metals

Lab #:	152431	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700		
Field ID:	MF109-GW	Sampled:	06/07/01
Lab ID:	152431-003	Received:	06/07/01
Matrix:	Filtrate	Prepared:	06/15/01
Units:	ug/L	Analyzed:	06/15/01
Diln Fac:	1.000		

Analyte	Result	RL	Batch#	Analysis
Antimony	ND	60	64311	EPA 6010B
Arsenic	ND	5.0	64311	EPA 6010B
Beryllium	ND	2.0	64311	EPA 6010B
Cadmium	ND	5.0	64311	EPA 6010B
Chromium	ND	10	64311	EPA 6010B
Copper	ND	10	64311	EPA 6010B
Lead	ND	3.0	64311	EPA 6010B
Mercury	ND	0.20	64325	EPA 7470A
Nickel	ND	20	64311	EPA 6010B
Selenium	ND	5.0	64311	EPA 6010B
Silver	ND	5.0	64311	EPA 6010B
Thallium	ND	5.0	64311	EPA 6010B
Zinc	ND	20	64311	EPA 6010B

ND= Not Detected

RL= Reporting Limit

Priority Pollutant Metals

Lab #:	152431	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700		
Field ID:	MF110-GW	Sampled:	06/07/01
Lab ID:	152431-004	Received:	06/07/01
Matrix:	Filtrate	Prepared:	06/15/01
Units:	ug/L	Analyzed:	06/15/01
Diln Fac:	1.000		

Analyte	Result	RL	Batch#	Analysis
Antimony	ND	60	64311	EPA 6010B
Arsenic	ND	5.0	64311	EPA 6010B
Beryllium	ND	2.0	64311	EPA 6010B
Cadmium	ND	5.0	64311	EPA 6010B
Chromium	ND	10	64311	EPA 6010B
Copper	ND	10	64311	EPA 6010B
Lead	ND	3.0	64311	EPA 6010B
Mercury	ND	0.20	64325	EPA 7470A
Nickel	ND	20	64311	EPA 6010B
Selenium	ND	5.0	64311	EPA 6010B
Silver	ND	5.0	64311	EPA 6010B
Thallium	ND	5.0	64311	EPA 6010B
Zinc	ND	20	64311	EPA 6010B

ND= Not Detected

RL= Reporting Limit

Priority Pollutant Metals

Lab #:	152431	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700		
Field ID:	MF111-GW	Sampled:	06/07/01
Lab ID:	152431-005	Received:	06/07/01
Matrix:	Filtrate	Prepared:	06/15/01
Units:	ug/L	Analyzed:	06/15/01
Diln Fac:	1.000		

Analyte	Result	RL	Batch#	Analysis
Antimony	ND	60	64311	EPA 6010B
Arsenic	ND	5.0	64311	EPA 6010B
Beryllium	ND	2.0	64311	EPA 6010B
Cadmium	ND	5.0	64311	EPA 6010B
Chromium	ND	10	64311	EPA 6010B
Copper	ND	10	64311	EPA 6010B
Lead	ND	3.0	64311	EPA 6010B
Mercury	1.6	0.20	64325	EPA 7470A
Nickel	ND	20	64311	EPA 6010B
Selenium	ND	5.0	64311	EPA 6010B
Silver	ND	5.0	64311	EPA 6010B
Thallium	ND	5.0	64311	EPA 6010B
Zinc	ND	20	64311	EPA 6010B

ND= Not Detected

RL= Reporting Limit

Priority Pollutant Metals

Lab #:	152431	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700		
Field ID:	MF112-GW	Sampled:	06/07/01
Lab ID:	152431-006	Received:	06/07/01
Matrix:	Filtrate	Prepared:	06/15/01
Units:	ug/L	Analyzed:	06/15/01
Diln Fac:	1.000		

Analyte	Result	RL	Batch#	Analysis
Antimony	ND	60	64311	EPA 6010B
Arsenic	ND	5.0	64311	EPA 6010B
Beryllium	ND	2.0	64311	EPA 6010B
Cadmium	ND	5.0	64311	EPA 6010B
Chromium	ND	10	64311	EPA 6010B
Copper	ND	10	64311	EPA 6010B
Lead	ND	3.0	64311	EPA 6010B
Mercury	0.23	0.20	64325	EPA 7470A
Nickel	ND	20	64311	EPA 6010B
Selenium	ND	5.0	64311	EPA 6010B
Silver	ND	5.0	64311	EPA 6010B
Thallium	ND	5.0	64311	EPA 6010B
Zinc	ND	20	64311	EPA 6010B

ND= Not Detected

RL= Reporting Limit

Priority Pollutant Metals

Lab #:	152431	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700		
Field ID:	MF113-GW	Sampled:	06/07/01
Lab ID:	152431-007	Received:	06/07/01
Matrix:	Filtrate	Prepared:	06/15/01
Units:	ug/L	Analyzed:	06/15/01
Diln Fac:	1.000		

Analyte	Result	RL	Batch#	Analysis
Antimony	ND	60	64311	EPA 6010B
Arsenic	ND	5.0	64311	EPA 6010B
Beryllium	ND	2.0	64311	EPA 6010B
Cadmium	ND	5.0	64311	EPA 6010B
Chromium	ND	10	64311	EPA 6010B
Copper	ND	10	64311	EPA 6010B
Lead	ND	3.0	64311	EPA 6010B
Mercury	ND	0.20	64325	EPA 7470A
Nickel	30	20	64311	EPA 6010B
Selenium	ND	5.0	64311	EPA 6010B
Silver	ND	5.0	64311	EPA 6010B
Thallium	ND	5.0	64311	EPA 6010B
Zinc	ND	20	64311	EPA 6010B

Priority Pollutant Metals

Lab #:	152431	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC147929	Batch#:	64311
Matrix:	Filtrate	Prepared:	06/15/01
Units:	ug/L	Analyzed:	06/15/01

Analyte	Result	RL
Antimony	ND	60
Arsenic	ND	5.0
Beryllium	ND	2.0
Cadmium	ND	5.0
Chromium	ND	10
Copper	ND	10
Lead	ND	3.0
Nickel	ND	20
Selenium	ND	5.0
Silver	ND	5.0
Thallium	ND	5.0
Zinc	ND	20

D= Not Detected

RL= Reporting Limit

Priority Pollutant Metals

Lab #:	152431	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7470A
Analyte:	Mercury	Basis:	wet
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC147991	Batch#:	64325
Matrix:	Miscell.	Prepared:	06/15/01
Units:	mg/Kg	Analyzed:	06/15/01

Result	RL
ND	0.00020

Priority Pollutant Metals

Lab #:	152431	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 6010B
Matrix:	Filtrate	Batch#:	64311
Jnits:	ug/L	Prepared:	06/15/01
Diln Fac:	1.000	Analyzed:	06/15/01

Type: BS Lab ID: QC147930

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	476.0	95	75-123
Arsenic	100.0	106.0	106	80-120
Beryllium	50.00	51.00	102	80-116
Cadmium	50.00	49.80	100	80-126
Chromium	200.0	200.0	100	80-113
Copper	250.0	239.0	96	80-114
Lead	100.0	102.0	102	78-120
Nickel	500.0	470.0	94	80-116
Selenium	100.0	102.0	102	79-120
Silver	50.00	49.80	100	80-120
Thallium	100.0	99.20	99	80-119
Zinc	500.0	481.0	96	72-126

Type: BSD Lab ID: QC147931

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	483.0	97	75-123	1	21
Arsenic	100.0	102.0	102	80-120	4	20
Beryllium	50.00	51.30	103	80-116	1	20
Cadmium	50.00	50.80	102	80-126	2	20
Chromium	200.0	201.0	101	80-113	0	21
Copper	250.0	241.0	96	80-114	1	24
Lead	100.0	103.0	103	78-120	1	20
Nickel	500.0	472.0	94	80-116	0	23
Selenium	100.0	97.20	97	79-120	5	20
Silver	50.00	50.20	100	80-120	1	26
Thallium	100.0	99.10	99	80-119	0	20
Zinc	500.0	483.0	97	72-126	0	26

Priority Pollutant Metals

Lab #:	152431	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 6010B
Field ID:	MF108-GW	Batch#:	64311
MSS Lab ID:	152431-002	Sampled:	06/07/01
Matrix:	Water	Received:	06/07/01
Units:	ug/L	Prepared:	06/15/01
Diln Fac:	1.000	Analyzed:	06/15/01

Type: MS Lab ID: QC147932

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	31.70	500.0	440.0	82	64-128
Arsenic	5.430	100.0	113.0	108	65-131
Beryllium	0.2560	50.00	50.30	100	71-124
Cadmium	0.3940	50.00	47.80	95	70-127
Chromium	<0.3800	200.0	193.0	97	70-124
Copper	1.550	250.0	243.0	97	74-122
Lead	<0.9200	100.0	99.10	99	66-128
Nickel	5.540	500.0	451.0	89	70-126
Selenium	<1.700	100.0	107.0	107	65-132
Silver	<0.7200	50.00	43.00	86	72-125
Thallium	<2.000	100.0	92.60	93	58-134
Zinc	9.440	500.0	486.0	95	69-129

Type: MSD Lab ID: QC147933

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	423.0	78	64-128	4	29
Arsenic	100.0	114.0	109	65-131	1	42
Beryllium	50.00	49.70	99	71-124	1	20
Cadmium	50.00	48.30	96	70-127	1	25
Chromium	200.0	191.0	96	70-124	1	20
Copper	250.0	239.0	95	74-122	2	20
Lead	100.0	98.60	99	66-128	1	29
Nickel	500.0	449.0	89	70-126	0	20
Selenium	100.0	104.0	104	65-132	3	40
Silver	50.00	42.00	84	72-125	2	30
Thallium	100.0	92.70	93	58-134	0	41
Zinc	500.0	482.0	95	69-129	1	33

Priority Pollutant Metals

Lab #:	152431	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Miscell.	Batch#:	64325
Units:	mg/Kg	Prepared:	06/15/01
Basis:	wet	Analyzed:	06/15/01

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC147992	0.005000	0.005590	112	80-116		
BSD	QC147993	0.005000	0.005590	112	80-116	0	20

Priority Pollutant Metals

Lab #: 152431
 Client: URS Corporation
 Project#: 510996706700
 Analyte: Mercury
 Field ID: MF112-GW
 MSS Lab ID: 152431-006
 Matrix: Water
 Units: ug/L
 Diln Fac: 1.000

Location: UCB-Richmond Field Sta.
 Prep: METHOD
 Analysis: EPA 7470A
 Batch#: 64325
 Sampled: 06/07/01
 Received: 06/07/01
 Prepared: 06/15/01
 Analyzed: 06/15/01

Type	Lab ID	MSS Result	Spiked	Result	%RFC	Limits	RPD	Lim
MS	QC147994	0.2300	5.000	5.700	109	80-114		
MSSD	QC147995		5.000	5.540	106	80-114	3	22



pH

Lab #:	152431	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Analysis:	EPA 9040B
Project#:	510996706700		
Analyte:	pH	Batch#:	64150
Matrix:	Water	Sampled:	06/07/01
Units:	SU	Received:	06/07/01
Diln Fac:	1.000	Analyzed:	06/07/01

Field ID	Lab ID	Result	RL
MF107-GW	152431-001	7.5	1.0
MF108-GW	152431-002	7.5	1.0
MF109-GW	152431-003	7.1	1.0
MF110-GW	152431-004	7.2	1.0
MF111-GW	152431-005	7.0	1.0
MF112-GW	152431-006	7.0	1.0
MF113-GW	152431-007	7.0	1.0

pH				
Lab #:	152431	Location:	UCB-Richmond Field Sta.	
Client:	URS Corporation	Analysis:	EPA 9040B	
Project#:	510996706700			
Analyte:	pH	Units:	SU	
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000	
Type:	SDUP	Batch#:	64150	
MSS Lab ID:	152425-002	Sampled:	06/07/01	
Lab ID:	QC147367	Received:	06/07/01	
Matrix:	Water	Analyzed:	06/07/01	
MSS Result	Result	RL	RPD	Lim
10.49	10.42	1.0	1	20



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

A N A L Y T I C A L R E P O R T

Prepared for:

URS Corporation
500 12th Street
Suite 200
Oakland, CA 94607

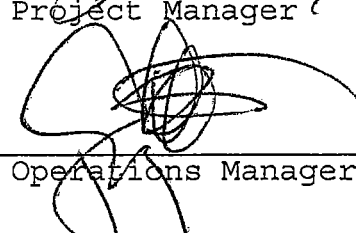
Date: 21-JUN-01
Lab Job Number: 152433
Project ID: 510996706700
Location: UCB-Richmond Field Sta.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by:


Project Manager

Reviewed by:


Operations Manager

This package may be reproduced only in its entirety.

Laboratory Numbers: **152433**
Client: **URS Corporation**
Location: **UCB-Richmond Field Sta.**
Project ID: **510996706700**

Sampled Date: **06/07/01**
Received Date: **06/07/01**

CASE NARRATIVE

This hardcopy data package contains sample and QC results for twenty-four soil samples, which were received from the site referenced above on June 07, 2001. The samples were received cold and intact. All results have been corrected for moisture.

Metals (EPA 6000/7000): The matrix spike samples for mercury are considered not meaningful (NM) as the sample concentration for this element is four times greater than the spiked level. No other analytical problems were encountered.

152433



500 12th Street, Suite 200
Oakland, CA 94607-4014
(510) 893-3600

Chain of Custody Record

PROJECT NO: 510996706700			ANALYSES								REMARKS (Sample preservation, handling procedures, etc.)
SAMPLERS: (Signature) S Copeland			Sample Matrix (Soil, Water, Air)	EPA Method	EPA Method	EPA Method	EPA Method	Mercury	PP metals	Number of Containers	
DATE	TIME	SAMPLE NUMBER									
-1	6/7/01	9:30	MF109-0	S				X		1	
-2		9:40	MF109-4							1	
-3		9:45	MF109-7							1	
-4		10:25	MF110-0							1	
-5		10:35	MF110-4							1	
-6		10:40	MF110-7							1	
-7		11:15	MF108-0							1	
-8		11:25	MF108-4							1	
-9		11:30	MF108-7							1	
-10		12:15	MF107-0							1	
-11		12:30	MF107-4							1	
-12		12:35	MF107-7							1	
-13		1:00	MF111-0							1	
-14		1:05	MF111-4							1	
-15		1:10	MF111-7							1	
-16		1:40	MF112-0							1	
-17		1:45	MF112-4							1	
-18		1:50	MF112-7							1	
-19		2:30	MF113-0							1	
-20		2:35	MF113-4							1	
-21		2:40	MF113-8							1	
-22		3:10	MF114-0							1	
-23		3:20	MF114-2					X		1	
-24		4:10	MF114-11.3	↓				X		1	

Results to
Bill Copeland
(510) 874-3192

Preservation Correct No M/A

TOTAL NUMBER OF CONTAINERS: 24

RELINQUISHED BY: (Signature) S Copeland	DATE/TIME 6/7/01	RECEIVED BY: (Signature) T. B. [Signature]	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
METHOD OF SHIPMENT:	SHIPPED BY: (Signature)	COURIER: (Signature)	<input checked="" type="checkbox"/> On Ice <input type="checkbox"/> Gold <input type="checkbox"/> Room Temp		RECEIVED FOR LAB BY (Signature)
			DATE/TIME		

Percent Moisture Summary Report

Date: 16-JUN-01
 Batch: 64345
 Analyst: MR

Sample	Method	Date	Tare(g)	Wet(g)	Dry(g)	Percent Solids	Percent Moisture
152433-001	CLP SOW 390	16-JUN-01	15.3167	22.7198	22.3692	95	5
152433-002	CLP SOW 390	16-JUN-01	15.7899	22.3914	21.2792	83	17
152433-003	CLP SOW 390	16-JUN-01	15.9336	22.6988	21.3644	80	20
152433-004	CLP SOW 390	16-JUN-01	15.5304	22.9803	22.3722	92	8
152433-005	CLP SOW 390	16-JUN-01	15.2918	22.8009	21.7554	86	14
152433-006	CLP SOW 390	16-JUN-01	14.982	22.8927	21.3865	81	19
152433-007	CLP SOW 390	16-JUN-01	15.819	22.2994	21.8156	93	7
152433-008	CLP SOW 390	16-JUN-01	14.6525	22.6762	21.5091	85	15
152433-009	CLP SOW 390	16-JUN-01	14.9957	24.8357	22.8002	79	21
152433-010	CLP SOW 390	16-JUN-01	15.3355	22.5574	21.6542	87	13
152433-011	CLP SOW 390	16-JUN-01	15.9479	23.1965	22.1901	86	14
152433-012	CLP SOW 390	16-JUN-01	15.9702	22.7447	21.6196	83	17
152433-013	CLP SOW 390	16-JUN-01	15.9031	22.1654	21.4432	88	12
152433-014	CLP SOW 390	16-JUN-01	15.3179	22.0964	20.787	81	19
152433-015	CLP SOW 390	16-JUN-01	15.0383	22.7058	21.3047	82	18
152433-016	CLP SOW 390	16-JUN-01	15.8107	23.8845	23.6587	97	3
152433-017	CLP SOW 390	16-JUN-01	15.3452	22.3784	21.208	83	17
152433-018	CLP SOW 390	16-JUN-01	15.3701	23.8636	22.1231	80	20
152433-019	CLP SOW 390	16-JUN-01	21.3619	29.7101	29.3322	95	5
152433-020	CLP SOW 390	16-JUN-01	21.3778	30.7434	30.4864	97	3
QC148058	CLP SOW 390	16-JUN-01	21.3133	30.9075	30.6377	97	3
of 152433-020						RPD: 0.1%	2.4%

Percent Moisture Summary Report

Date: 16-JUN-01
Batch: 64346
Analyst: MR

Sample	Method	Date	Tare(g)	Wet(g)	Dry(g)	Percent Solids	Percent Moisture
152433-021	CLP SOW 390	16-JUN-01	21.431	29.7934	28.1824	81	19
152433-022	CLP SOW 390	16-JUN-01	21.6047	28.5647	27.4539	84	16
152433-023	CLP SOW 390	16-JUN-01	21.3872	29.2683	28.2811	87	13
152433-024	CLP SOW 390	16-JUN-01	21.5851	30.2772	28.7145	82	18
QC148059	CLP SOW 390	16-JUN-01	21.6641	30.2148	28.6507	82	18
of 152433-024					RPD:	0.4%	1.7%

Mercury by Cold Vapor AA

Lab #:	152433	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Sampled:	06/07/01
Matrix:	Soil	Received:	06/07/01
Units:	mg/Kg		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Diln	Fac	Hatch#	Prepared	Analyzed
MF109-0	SAMPLE	152433-001	40	2.2	dry	5%	100.0	64282	06/14/01	06/14/01	
MF109-4	SAMPLE	152433-002	5.1	2.6	dry	17%	100.0	64282	06/14/01	06/14/01	
MF109-7	SAMPLE	152433-003	0.13	0.024	dry	20%	1.000	64330	06/15/01	06/15/01	
MF110-0	SAMPLE	152433-004	80	2.2	dry	8%	100.0	64282	06/14/01	06/14/01	
MF110-4	SAMPLE	152433-005	59	2.3	dry	14%	100.0	64395	06/19/01	06/19/01	
MF110-7	SAMPLE	152433-006	0.20	0.025	dry	19%	1.000	64395	06/19/01	06/19/01	
MF108-0	SAMPLE	152433-007	220	8.8	dry	7%	400.0	64282	06/14/01	06/14/01	
MF108-4	SAMPLE	152433-008	11	2.5	dry	15%	100.0	64282	06/14/01	06/14/01	
MF108-7	SAMPLE	152433-009	0.33	0.024	dry	21%	1.000	64330	06/15/01	06/15/01	
MF107-0	SAMPLE	152433-010	0.65	0.025	dry	13%	1.000	64330	06/15/01	06/15/01	
MF107-4	SAMPLE	152433-011	40	2.2	dry	14%	100.0	64282	06/14/01	06/14/01	
MF107-7	SAMPLE	152433-012	32	2.4	dry	17%	100.0	64282	06/14/01	06/14/01	
MF111-0	SAMPLE	152433-013	280	9.7	dry	12%	400.0	64282	06/14/01	06/14/01	
MF111-4	SAMPLE	152433-014	3.4	2.5	dry	19%	100.0	64282	06/14/01	06/14/01	
MF111-7	SAMPLE	152433-015	1.1	0.023	dry	18%	1.000	64330	06/15/01	06/15/01	
MF112-0	SAMPLE	152433-016	41	2.0	dry	3%	100.0	64282	06/14/01	06/14/01	
MF112-4	SAMPLE	152433-017	21	2.2	dry	17%	100.0	64282	06/14/01	06/14/01	
MF112-7	SAMPLE	152433-018	0.89	0.026	dry	20%	1.000	64330	06/15/01	06/15/01	
MF113-0	SAMPLE	152433-019	7.9	2.2	dry	5%	100.0	64282	06/14/01	06/14/01	
MF113-4	SAMPLE	152433-020	4.6	2.1	dry	3%	100.0	64282	06/14/01	06/14/01	
MF113-8	SAMPLE	152433-021	5.1	0.24	dry	19%	10.00	64330	06/15/01	06/15/01	
MF114-0	SAMPLE	152433-022	0.87	0.022	dry	16%	1.000	64330	06/15/01	06/15/01	
MF114-2	SAMPLE	152433-023	0.11	0.021	dry	13%	1.000	64330	06/15/01	06/15/01	
	BLANK	QC147835	ND	0.020	wet		1.000	64282	06/14/01	06/14/01	
	BLANK	QC148014	ND	0.020	wet		1.000	64330	06/15/01	06/15/01	
	BLANK	QC148240	ND	0.020	wet		1.000	64395	06/19/01	06/19/01	

Priority Pollutant Metals

Lab #:	152433	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	MF114-11.3	Basis:	dry
Lab ID:	152433-024	Diln Fac:	1.000
Matrix:	Soil	Sampled:	06/07/01
Units:	mg/Kg	Received:	06/07/01

Moisture: 18%

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	3.6	64155	06/07/01	06/08/01	EPA 3050	EPA 6010B
Arsenic	3.9	0.30	64155	06/07/01	06/08/01	EPA 3050	EPA 6010B
Beryllium	0.91	0.12	64155	06/07/01	06/08/01	EPA 3050	EPA 6010B
Cadmium	2.4	0.30	64155	06/07/01	06/08/01	EPA 3050	EPA 6010B
Chromium	58	0.60	64155	06/07/01	06/08/01	EPA 3050	EPA 6010B
Copper	39	0.60	64155	06/07/01	06/08/01	EPA 3050	EPA 6010B
Lead	9.9	0.18	64155	06/07/01	06/08/01	EPA 3050	EPA 6010B
Mercury	0.30	0.025	64330	06/15/01	06/15/01	METHOD	EPA 7471
Nickel	56	1.2	64155	06/07/01	06/08/01	EPA 3050	EPA 6010B
Selenium	0.56	0.30	64155	06/07/01	06/08/01	EPA 3050	EPA 6010B
Silver	ND	0.30	64155	06/07/01	06/08/01	EPA 3050	EPA 6010B
Thallium	ND	0.30	64155	06/07/01	06/08/01	EPA 3050	EPA 6010B
Zinc	64	1.2	64155	06/07/01	06/08/01	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	152433	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 3050
Project#:	510996706700	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC147383	Batch#:	64155
Matrix:	Soil	Prepared:	06/07/01
Units:	mg/Kg	Analyzed:	06/08/01
Basis:	wet		

Analyte	Result	RL
Antimony	ND	3.0
Arsenic	ND	0.25
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Copper	ND	0.50
Lead	ND	0.15
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Zinc	ND	1.0

Priority Pollutant Metals			
Lab #:	152433	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Basis:	wet
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC147835	Batch#:	64282
Matrix:	Soil	Prepared:	06/14/01
Units:	mg/Kg	Analyzed:	06/14/01
Result	RL		
ND	0.020		

Priority Pollutant Metals

Lab #:	152433	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Basis:	wet
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC148014	Batch#:	64330
Matrix:	Soil	Prepared:	06/15/01
Units:	mg/Kg	Analyzed:	06/15/01

Result	RL
ND	0.020

Priority Pollutant Metals			
Lab #:	152433	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Basis:	wet
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC148240	Batch#:	64395
Matrix:	Soil	Prepared:	06/19/01
Units:	mg/Kg	Analyzed:	06/19/01
Result	RL		
ND	0.020		

Mercury by Cold Vapor AA

Lab #: 152433 Location: UCB-Richmond Field Sta.
 Client: URS Corporation Prep: METHOD
 Project#: 510996706700 Analysis: EPA 7471
 Analyte: Mercury Units: mg/Kg
 Matrix: Soil

Field ID	Type	MSL Lab ID	Lab ID	MSL Result	Spiked	Result	SPCC	Units	Basis	Moisture	WTD	Lim	Fltr	Pac	Batch#	Sampled	Received	Entered	Analyzed	
	BS		QC147836		0.5000	0.5340	107	80-114	wet						64282				06/14/01	06/14/01
	BSD		QC147837		0.5000	0.5240	105	80-114	wet						64282				06/14/01	06/14/01
MF109-0	MS	152433-001	QC147838	39.58	0.5482	45.50	1080	NM	62-135	dry	5%			100.0	64282	06/07/01	06/07/01	06/14/01	06/14/01	
MF109-0	MSD	152433-001	QC147839		0.5371	53.60	2610	NM	62-135	dry	5%			100.0	64282	06/07/01	06/07/01	06/14/01	06/14/01	
	BS		QC148015		0.5000	0.4820	96	80-114	wet						64330				06/15/01	06/15/01
	BSD		QC148016		0.5000	0.4760	95	80-114	wet						64330				06/15/01	06/15/01
ZZZZZZZZZZ	MS	152483-001	QC148017	0.1426	0.5208	0.6208	92	62-135	wet						64330	06/03/01	06/11/01	06/15/01	06/15/01	
ZZZZZZZZZZ	MSD	152483-001	QC148018		0.5000	0.5790	87	62-135	wet						64330	06/03/01	06/11/01	06/15/01	06/15/01	
	BS		QC148241		0.5000	0.5090	102	80-114	wet						64395				06/19/01	06/19/01
	BSD		QC148242		0.5000	0.5030	101	80-114	wet						64395				06/19/01	06/19/01
ZZZZZZZZZZ	MS	152486-001	QC148243	0.2574	0.5000	0.7410	97	62-135	wet						64395	06/06/01	06/08/01	06/19/01	06/19/01	
ZZZZZZZZZZ	MSD	152486-001	QC148244		0.5319	0.8351	109	62-135	wet						64395	06/06/01	06/08/01	06/19/01	06/19/01	

NM= Not Meaningful
 RPD= Relative Percent Difference
 Page 1 of 1



Priority Pollutant Metals

Lab #:	152433	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 3050
Project#:	510996706700	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	64155
Units:	mg/Kg	Prepared:	06/07/01
Basis:	wet	Analyzed:	06/08/01
Diln Fac:	1.000		

Type: BS Lab ID: QC147384

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	82.50	83	73-111
Arsenic	50.00	40.50	81	74-110
Beryllium	2.500	2.035	81	77-110
Cadmium	10.00	7.900	79	75-112
Chromium	100.0	80.00	80	73-111
Copper	12.50	9.950	80	75-111
Lead	100.0	78.50	79	70-110
Nickel	25.00	20.35	81	74-111
Selenium	50.00	37.20	74	73-111
Silver	10.00	7.650	77	70-115
Thallium	50.00	38.40	77	75-110
Zinc	25.00	19.75	79	68-110

Type: BSD Lab ID: QC147385

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	82.00	82	73-111	1	20
Arsenic	50.00	40.45	81	74-110	0	20
Beryllium	2.500	2.030	81	77-110	0	20
Cadmium	10.00	7.800	78	75-112	1	20
Chromium	100.0	79.50	80	73-111	1	23
Copper	12.50	9.900	79	75-111	1	22
Lead	100.0	78.00	78	70-110	1	20
Nickel	25.00	20.25	81	74-111	0	21
Selenium	50.00	37.00	74	73-111	1	20
Silver	10.00	7.550	76	70-115	1	39
Thallium	50.00	38.50	77	75-110	0	20
Zinc	25.00	19.65	79	68-110	1	22

RPD= Relative Percent Difference

Priority Pollutant Metals

Lab #:	152433	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	64395
Units:	mg/Kg	Prepared:	06/19/01
Basis:	wet	Analyzed:	06/19/01

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC148241	0.5000	0.5090	102	80-114		
BSD	QC148242	0.5000	0.5030	101	80-114	1	20

Priority Pollutant Metals

Lab #:	152433	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	64282
Units:	mg/Kg	Prepared:	06/14/01
Basis:	wet	Analyzed:	06/14/01

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC147836	0.5000	0.5340	107	80-114		
BSD	QC147837	0.5000	0.5240	105	80-114	2	20

Priority Pollutant Metals			
Lab #:	152433	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	64330
Units:	mg/Kg	Prepared:	06/15/01
Basis:	wet	Analyzed:	06/15/01

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC148015	0.5000	0.4820	96	80-114		
BSD	QC148016	0.5000	0.4760	95	80-114	1	20

Priority Pollutant Metals

Lab #: 152433 Location: UCB-Richmond Field Sta.
 Client: URS Corporation Prep: METHOD
 Project#: 510996706700 Analysis: EPA 7471
 Analyte: Mercury Diln Fac: 1.000
 Field ID: ZZZZZZZZZZ Batch#: 64330
 MSS Lab ID: 152483-001 Sampled: 06/01/01
 Matrix: Soil Received: 06/11/01
 Units: mg/Kg Prepared: 06/15/01
 Basis: wet Analyzed: 06/15/01

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC148017	0.1426	0.5208	0.6208	92	62-135	4	35
MSD	QC148018		0.5000	0.5790	87	62-135	4	35



Priority Pollutant Metals

Lab #:	152433	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	64395
MSS Lab ID:	152486-001	Sampled:	06/06/01
Matrix:	Soil	Received:	06/08/01
Units:	mg/Kg	Prepared:	06/19/01
Basis:	wet	Analyzed:	06/19/01

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC148243	0.2574	0.5000	0.7410	97	62-135		
MSD	QC148244		0.5319	0.8351	109	62-135	8	35



A N A L Y T I C A L R E P O R T

Prepared for:

URS Corporation
500 12th Street
Suite 200
Oakland, CA 94607

Date: 28-JUN-01
Lab Job Number: 152590
Project ID: 510996706700
Location: UCB-Richmond Field Sta.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: Troy B. B. R.
Project Manager

Reviewed by: [Signature]
Operations Manager

This package may be reproduced only in its entirety.

Laboratory Numbers: **152590**
Client: **URS Corporation**
Location: **UCB-Richmond Field Sta.**
Project ID: **510996706700**

Sampled Date: **05/31/01**
Received Date: **06/18/01**

CASE NARRATIVE

This hardcopy data package contains sample and QC results for three soil samples, which were received from the site referenced above on June 18, 2001. The samples were received cold and intact. All results have been corrected for moisture.

Metals (EPA 6000/7000): For arsenic, lead, nickel and zinc, the matrix spike recoveries are considered not meaningful (NM) as the sample concentrations for these elements are four times greater than the spiked level. Low selenium matrix spike recoveries were observed. The blank spike and blank spike duplicate recoveries pass all criteria. No other analytical problems were encountered.

General Chemistry: The ph (EPA 9045C) was analyzed outside of the EPA recommended hold time as a result of the samples being submitted to the lab outside of the EPA recommended hold time. No other analytical problems were encountered.

4

Percent Moisture Summary Report

Date: 21-JUN-01
 Batch: 64454
 Analyst: MR

Sample	Method	Date	Tare(g)	Wet(g)	Dry(g)	Percent Solids	Percent Moisture
152560-002	CLP SOW 390	21-JUN-01	15.0197	23.4854	22.8226	92	8
152560-003	CLP SOW 390	21-JUN-01	14.9812	23.2253	22.9228	96	4
152585-003	CLP SOW 390	21-JUN-01	15.3126	23.3446	23.0914	97	3
152585-004	CLP SOW 390	21-JUN-01	15.8538	24.1405	23.6017	93	7
152590-001	CLP SOW 390	21-JUN-01	15.7665	23.7078	21.9529	78	22
152590-002	CLP SOW 390	21-JUN-01	15.3246	23.118	21.5271	80	20
152590-003	CLP SOW 390	21-JUN-01	15.6336	23.6603	22.0453	80	20
152619-005	CLP SOW 390	21-JUN-01	15.5517	23.3672	23.0046	95	5
152619-010	CLP SOW 390	21-JUN-01	15.5657	23.169	22.7355	94	6
QC148454	CLP SOW 390	21-JUN-01	15.5733	23.3791	22.7374	92	8
of 152560-002					RPD:	0.4%	4.9%

Priority Pollutant Metals			
Lab #:	152590	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	PH1-CINDER	Basis:	dry
Lab ID:	152590-001	Sampled:	05/31/01
Matrix:	Soil	Received:	06/18/01
Units:	mg/Kg	Analyzed:	06/20/01

Moisture: 22%

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Prep	Analysis
Antimony	3.6	3.5	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Arsenic	53	0.29	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Beryllium	ND	0.12	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Cadmium	9.5	0.29	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Chromium	0.91	0.59	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Copper	640	0.59	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Lead	55	0.18	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Mercury	8.7	0.27	10.00	64426	06/20/01	METHOD	EPA 7471
Nickel	37	1.2	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Selenium	1.4 J	0.29	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Silver	8.0	0.29	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Thallium	0.76	0.29	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Zinc	2,000	120	100.0	64386	06/18/01	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	152590	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	PH4-CINDER	Basis:	dry
Lab ID:	152590-002	Sampled:	05/31/01
Matrix:	Soil	Received:	06/18/01
Units:	mg/Kg	Analyzed:	06/20/01

Moisture: 20%

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Prep	Analysis
Antimony	5.8	3.6	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Arsenic	210	0.30	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Beryllium	ND	0.12	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Cadmium	13	0.30	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Chromium	1.5	0.60	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Copper	780	0.60	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Lead	40	0.18	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Mercury	10	0.27	10.00	64426	06/20/01	METHOD	EPA 7471
Nickel	33	1.2	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Selenium	0.79 J	0.30	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Silver	11	0.30	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Thallium	ND	0.30	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Zinc	2,800	120	100.0	64386	06/18/01	EPA 3050	EPA 6010B

Priority Pollutant Metals			
Lab #:	152590	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	PH7-CINDER	Basis:	dry
Lab ID:	152590-003	Sampled:	05/31/01
Matrix:	Soil	Received:	06/18/01
Units:	mg/Kg	Analyzed:	06/20/01

Moisture: 20%

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Prep	Analysis
Antimony	6.3	3.7	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Arsenic	210	0.31	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Beryllium	ND	0.12	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Cadmium	10	0.31	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Chromium	1.2	0.62	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Copper	290	0.62	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Lead	92	0.19	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Mercury	2.7	0.25	10.00	64426	06/20/01	METHOD	EPA 7471
Nickel	38	1.2	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Selenium	1.0 J	0.31	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Silver	8.6	0.31	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Thallium	ND	0.31	1.000	64386	06/18/01	EPA 3050	EPA 6010B
Zinc	1,300	120	100.0	64386	06/18/01	EPA 3050	EPA 6010B

Priority Pollutant Metals			
Lab #:	152590	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 3050
Project#:	510996706700	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC148202	Batch#:	64386
Matrix:	Soil	Prepared:	06/18/01
Units:	mg/Kg	Analyzed:	06/20/01
Basis:	wet		

Analyte	Result	RL
Antimony	ND	3.0
Arsenic	ND	0.25
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Copper	ND	0.50
Lead	ND	0.15
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Zinc	ND	1.0

Priority Pollutant Metals

Lab #:	152590	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Basis:	wet
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC148349	Batch#:	64426
Matrix:	Soil	Prepared:	06/20/01
Units:	mg/Kg	Analyzed:	06/20/01

Result	RL
ND	0.020

Priority Pollutant Metals			
Lab #:	152590	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 3050
Project#:	510996706700	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	64386
Units:	mg/Kg	Prepared:	06/18/01
Basis:	wet	Analyzed:	06/20/01
Diln Fac:	1.000		

Type: BS Lab ID: QC148203

Analyte	Spiked	Result	%REC	Limits
Antimony	25.00	24.35	97	73-111
Arsenic	5.000	4.920	98	74-110
Beryllium	2.500	2.380	95	77-110
Cadmium	2.500	2.230	89	75-112
Chromium	10.00	9.500	95	73-111
Copper	12.50	11.85	95	75-111
Lead	5.000	4.490	90	70-110
Nickel	25.00	22.90	92	74-111
Selenium	5.000	4.290	86	73-111
Silver	2.500	2.450	98	70-115
Thallium	5.000	4.360	87	75-110
Zinc	25.00	23.55	94	68-110

Type: BSD Lab ID: QC148204

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	25.00	25.15	101	73-111	3	20
Arsenic	5.000	4.770	95	74-110	3	20
Beryllium	2.500	2.460	98	77-110	3	20
Cadmium	2.500	2.305	92	75-112	3	20
Chromium	10.00	9.600	96	73-111	1	23
Copper	12.50	11.95	96	75-111	1	22
Lead	5.000	4.750	95	70-110	6	20
Nickel	25.00	23.55	94	74-111	3	21
Selenium	5.000	4.450	89	73-111	4	20
Silver	2.500	2.370	95	70-115	3	39
Thallium	5.000	4.490	90	75-110	3	20
Zinc	25.00	24.60	98	68-110	4	22

RPD= Relative Percent Difference

Priority Pollutant Metals			
Lab #:	152590	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	64426
Units:	mg/Kg	Prepared:	06/20/01
Basis:	wet	Analyzed:	06/20/01

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC148350	0.5000	0.4880	98	80-114		
BSD	QC148351	0.5000	0.4950	99	80-114	1	20

Priority Pollutant Metals

Lab #:	152590	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	64426
MSS Lab ID:	152619-005	Sampled:	06/19/01
Matrix:	Soil	Received:	06/19/01
Units:	mg/Kg	Prepared:	06/20/01
Basis:	dry	Analyzed:	06/20/01

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC148352	0.3723	0.4785	0.8354	97	62-135	5%		
MSD	QC148353		0.5263	0.9442	109	62-135	5%	7	35

pH			
Lab #:	152590	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Analysis:	EPA 9045C
Project#:	510996706700		
Analyte:	pH	Batch#:	64379
Matrix:	Soil	Sampled:	05/31/01
Units:	SU	Received:	06/18/01
Diln Fac:	1.000	Analyzed:	06/18/01

Field ID	Lab ID	Result	RL
PH1-CINDER	152590-001	2.4 R	1.0
PH4-CINDER	152590-002	2.5 R	1.0
PH7-CINDER	152590-003	7.0 R	1.0

out of hold
time R.

pH			
Lab #:	152590	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Analysis:	EPA 9045C
Project#:	510996706700		
Analyte:	pH	Units:	SU
Field ID:	PH1-CINDER	Diln Fac:	1.000
Type:	SDUP	Batch#:	64379
MSS Lab ID:	152590-001	Sampled:	05/31/01
Lab ID:	QC148191	Received:	06/18/01
Matrix:	Soil	Analyzed:	06/18/01

MSS Result	Result	RL	RPD	Lim
2.380	2.410	1.0	1	20



A N A L Y T I C A L R E P O R T

Prepared for:

URS Corporation
500 12th Street
Suite 200
Oakland, CA 94607

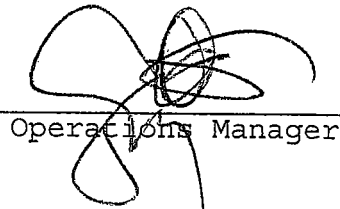
Date: 11-JUL-01
Lab Job Number: 152789
Project ID: 510996706700
Location: UCB-Richmond Field Sta.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by:


Project Manager

Reviewed by:


Operations Manager

This package may be reproduced only in its entirety.

Laboratory Numbers: **152789**
Client: **URS Corporation**
Project #: **510996706700**
Location: **UCB-Richmond Field Station**

Sampled Date: **06/28/01**
Received Date: **06/28/01**

CASE NARRATIVE

This hardcopy data package contains sample and QC results for six water samples and one soil sample, which were received from the site referenced above on June 28, 2001. The samples were received cold and intact. The soil result has not been corrected for moisture.

Metals (EPA 6000/7000):

Low thallium sample spike recoveries were observed for sample CT# 152793-006. The associated blank spike and blank spike duplicate samples passed all quality control criteria. No other analytical problems were encountered.

152 789

RFS

LEVEL III
URS

500 12th Street, Suite 200
Oakland, CA 94607-4014
(510) 893-3600

Chain of Custody Record

PROJECT NO. 510996706700

SAMPLERS: (Signature)
Copeland

DATE TIME SAMPLE NUMBER

Sample Matrix
(Soil, Water, Air)

EPA Method

EPA Method

EPA Method

EPA Method

PP metals

dissolved

Number of Containers

REMARKS
(Sample preservation, handling procedures, etc.)

-1
-2
-3
-4
-5
-6

6/28	9:25	MF114-GW	W					X				
	10:30	MF115-GW	↓									
		MF116-GW	↓									
	1:30	MF117-GW	↓									
		MF118-GW	↓									
		MF119-GW	↓									

dissolved
metals
pls filter
within 24
hours

Results to
Bill Copeland
(510) 894-3192

Preservation Correct? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Received <input checked="" type="checkbox"/> On Ice <input checked="" type="checkbox"/> Cold <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Intact
---	---

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY: (Signature) <u>Copeland</u>	DATE/TIME <u>6/28/01 3:30</u>	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
METHOD OF SHIPMENT:	SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY: (Signature) <u>Copeland</u>	DATE/TIME <u>6/28/01 7:30</u>	

Priority Pollutant Metals

Lab #:	152433	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Diln Fac:	100.0
Field ID:	MF109-0	Batch#:	64282
MSS Lab ID:	152433-001	Sampled:	06/07/01
Matrix:	Soil	Received:	06/07/01
Units:	mg/Kg	Prepared:	06/14/01
Basis:	dry	Analyzed:	06/14/01

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Llm
MS	QC147838	39.58	0.5482	45.50	1080	NM 62-135	5%		
MSD	QC147839		0.5371	53.60	2610	NM 62-135	5%	16	35

Priority Pollutant Metals

Lab #:	152789	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700		
Field ID:	MF114-GW	Diln Fac:	1.000
Lab ID:	152789-001	Sampled:	06/28/01
Matrix:	Filtrate	Received:	06/28/01
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	60	64668	07/02/01	07/08/01	EPA 6010B
Arsenic	ND	5.0	64668	07/02/01	07/08/01	EPA 6010B
Beryllium	ND	2.0	64668	07/02/01	07/08/01	EPA 6010B
Cadmium	ND	5.0	64668	07/02/01	07/08/01	EPA 6010B
Chromium	ND	10	64668	07/02/01	07/08/01	EPA 6010B
Copper	ND	10	64668	07/02/01	07/08/01	EPA 6010B
Lead	ND	3.0	64668	07/02/01	07/08/01	EPA 6010B
Mercury	0.24	0.20	64790	07/07/01	07/07/01	EPA 7470A
Nickel	ND	20	64668	07/02/01	07/08/01	EPA 6010B
Selenium	8.5	5.0	64668	07/02/01	07/08/01	EPA 6010B
Silver	ND	5.0	64668	07/02/01	07/08/01	EPA 6010B
Thallium	ND	5.0	64668	07/02/01	07/08/01	EPA 6010B
Zinc	88	20	64668	07/02/01	07/08/01	EPA 6010B

Priority Pollutant Metals

Lab #:	152789	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700		
Field ID:	MF115-GW	Diln Fac:	1.000
Lab ID:	152789-002	Sampled:	06/28/01
Matrix:	Filtrate	Received:	06/28/01
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	60	64668	07/02/01	07/08/01	EPA 6010B
Arsenic	32	5.0	64668	07/02/01	07/08/01	EPA 6010B
Beryllium	ND	2.0	64668	07/02/01	07/08/01	EPA 6010B
Cadmium	ND	5.0	64668	07/02/01	07/08/01	EPA 6010B
Chromium	ND	10	64668	07/02/01	07/08/01	EPA 6010B
Copper	ND	10	64668	07/02/01	07/08/01	EPA 6010B
Lead	ND	3.0	64668	07/02/01	07/08/01	EPA 6010B
Mercury	ND	0.20	64790	07/07/01	07/07/01	EPA 7470A
Nickel	ND	20	64668	07/02/01	07/08/01	EPA 6010B
Selenium	7.4	5.0	64668	07/02/01	07/08/01	EPA 6010B
Silver	ND	5.0	64668	07/02/01	07/08/01	EPA 6010B
Thallium	ND	5.0	64668	07/02/01	07/08/01	EPA 6010B
Zinc	ND	20	64668	07/02/01	07/08/01	EPA 6010B

Priority Pollutant Metals			
Lab #:	152789	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700		
Field ID:	MF116-GW	Diln Fac:	1.000
Lab ID:	152789-003	Sampled:	06/28/01
Matrix:	Filtrate	Received:	06/28/01
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	60	64668	07/02/01	07/08/01	EPA 6010B
Arsenic	26	5.0	64668	07/02/01	07/08/01	EPA 6010B
Beryllium	ND	2.0	64668	07/02/01	07/08/01	EPA 6010B
Cadmium	ND	5.0	64668	07/02/01	07/08/01	EPA 6010B
Chromium	ND	10	64668	07/02/01	07/08/01	EPA 6010B
Copper	ND	10	64668	07/02/01	07/08/01	EPA 6010B
Lead	ND	3.0	64668	07/02/01	07/08/01	EPA 6010B
Mercury	2.0	0.20	64790	07/07/01	07/07/01	EPA 7470A
Nickel	ND	20	64668	07/02/01	07/08/01	EPA 6010B
Selenium	8.3	5.0	64668	07/02/01	07/08/01	EPA 6010B
Silver	ND	5.0	64668	07/02/01	07/08/01	EPA 6010B
Thallium	ND	5.0	64668	07/02/01	07/08/01	EPA 6010B
Zinc	ND	20	64668	07/02/01	07/08/01	EPA 6010B

Priority Pollutant Metals

Lab #:	152789	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700		
Field ID:	MF117-GW	Diln Fac:	1.000
Lab ID:	152789-004	Sampled:	06/28/01
Matrix:	Filtrate	Received:	06/28/01
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	60	64668	07/02/01	07/08/01	EPA 6010B
Arsenic	92	5.0	64668	07/02/01	07/08/01	EPA 6010B
Beryllium	ND	2.0	64668	07/02/01	07/08/01	EPA 6010B
Cadmium	ND	5.0	64668	07/02/01	07/08/01	EPA 6010B
Chromium	ND	10	64668	07/02/01	07/08/01	EPA 6010B
Copper	ND	10	64668	07/02/01	07/08/01	EPA 6010B
Lead	3.5	3.0	64668	07/02/01	07/08/01	EPA 6010B
Mercury	ND	0.20	64790	07/07/01	07/07/01	EPA 7470A
Nickel	ND	20	64668	07/02/01	07/08/01	EPA 6010B
Selenium	10	5.0	64668	07/02/01	07/08/01	EPA 6010B
Silver	ND	5.0	64668	07/02/01	07/08/01	EPA 6010B
Thallium	ND	5.0	64668	07/02/01	07/08/01	EPA 6010B
Zinc	40	20	64668	07/02/01	07/08/01	EPA 6010B

Priority Pollutant Metals

Lab #:	152789	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700		
Field ID:	MF118-GW	Diln Fac:	1.000
Lab ID:	152789-005	Sampled:	06/28/01
Matrix:	Filtrate	Received:	06/28/01
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	60	64668	07/02/01	07/08/01	EPA 6010B
Arsenic	24	5.0	64668	07/02/01	07/08/01	EPA 6010B
Beryllium	ND	2.0	64668	07/02/01	07/08/01	EPA 6010B
Cadmium	ND	5.0	64668	07/02/01	07/08/01	EPA 6010B
Chromium	ND	10	64668	07/02/01	07/08/01	EPA 6010B
Copper	ND	10	64668	07/02/01	07/08/01	EPA 6010B
Lead	ND	3.0	64668	07/02/01	07/08/01	EPA 6010B
Mercury	ND	0.20	64790	07/07/01	07/07/01	EPA 7470A
Nickel	ND	20	64668	07/02/01	07/08/01	EPA 6010B
Selenium	8.9	5.0	64668	07/02/01	07/08/01	EPA 6010B
Silver	ND	5.0	64668	07/02/01	07/08/01	EPA 6010B
Thallium	ND	5.0	64668	07/02/01	07/08/01	EPA 6010B
Zinc	41	20	64668	07/02/01	07/08/01	EPA 6010B

Priority Pollutant Metals

Lab #:	152789	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700		
Field ID:	MF119-GW	Diln Fac:	1.000
Lab ID:	152789-006	Sampled:	06/28/01
Matrix:	Filtrate	Received:	06/28/01
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	60	64668	07/02/01	07/08/01	EPA 6010B
Arsenic	45	5.0	64668	07/02/01	07/08/01	EPA 6010B
Beryllium	ND	2.0	64668	07/02/01	07/08/01	EPA 6010B
Cadmium	ND	5.0	64668	07/02/01	07/08/01	EPA 6010B
Chromium	ND	10	64668	07/02/01	07/08/01	EPA 6010B
Copper	ND	10	64668	07/02/01	07/08/01	EPA 6010B
Lead	ND	3.0	64668	07/02/01	07/08/01	EPA 6010B
Mercury	ND	0.20	64790	07/07/01	07/07/01	EPA 7470A
Nickel	ND	20	64668	07/02/01	07/08/01	EPA 6010B
Selenium	8.7	5.0	64668	07/02/01	07/08/01	EPA 6010B
Silver	ND	5.0	64668	07/02/01	07/08/01	EPA 6010B
Thallium	ND	5.0	64668	07/02/01	07/08/01	EPA 6010B
Zinc	ND	20	64668	07/02/01	07/08/01	EPA 6010B

Priority Pollutant Metals

Lab #:	152789	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC149273	Batch#:	64668
Matrix:	Filtrate	Prepared:	07/02/01
Units:	ug/L	Analyzed:	07/02/01

Analyte	Result	RL
Antimony	ND	60
Arsenic	ND	5.0
Beryllium	ND	2.0
Cadmium	ND	5.0
Chromium	ND	10
Copper	ND	10
Lead	ND	3.0
Nickel	ND	20
Selenium	ND	5.0
Silver	ND	5.0
Thallium	ND	5.0
Zinc	ND	20

Priority Pollutant Metals			
Lab #:	152789	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	64790
Lab ID:	QC149738	Prepared:	07/07/01
Matrix:	Water	Analyzed:	07/07/01
Units:	ug/L		
Result	RL		
ND	0.20		

Priority Pollutant Metals			
Lab #:	152789	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 6010B
Matrix:	Filtrate	Batch#:	64668
Units:	ug/L	Prepared:	07/02/01
Diln Fac:	1.000	Analyzed:	07/02/01

Type: BS Lab ID: QC149274

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	477.0	95	75-123
Arsenic	100.0	105.0	105	80-120
Beryllium	50.00	50.50	101	80-116
Cadmium	50.00	48.70	97	80-126
Chromium	200.0	197.0	99	80-113
Copper	250.0	230.0	92	80-114
Lead	100.0	101.0	101	78-120
Nickel	500.0	490.0	98	80-116
Selenium	100.0	98.60	99	79-120
Silver	50.00	48.90	98	80-120
Thallium	100.0	100.0	100	80-119
Zinc	500.0	476.0	95	72-126

Type: BSD Lab ID: QC149275

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	488.0	98	75-123	2	21
Arsenic	100.0	106.0	106	80-120	1	20
Beryllium	50.00	50.70	101	80-116	0	20
Cadmium	50.00	49.30	99	80-126	1	20
Chromium	200.0	198.0	99	80-113	1	21
Copper	250.0	231.0	92	80-114	0	24
Lead	100.0	101.0	101	78-120	0	20
Nickel	500.0	490.0	98	80-116	0	23
Selenium	100.0	103.0	103	79-120	4	20
Silver	50.00	48.80	98	80-120	0	26
Thallium	100.0	101.0	101	80-119	1	20
Zinc	500.0	478.0	96	72-126	0	26

RPD= Relative Percent Difference

Priority Pollutant Metals			
Lab #:	152789	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	64668
MSS Lab ID:	152793-006	Sampled:	06/27/01
Matrix:	Water	Received:	06/28/01
Units:	ug/L	Prepared:	07/02/01
Diln Fac:	1.000	Analyzed:	07/02/01

Type: MS Lab ID: QC149276

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	8.050	500.0	514.0	101	64-128
Arsenic	6.370	100.0	110.0	104	65-131
Beryllium	0.4310	50.00	47.80	95	71-124
Cadmium	<0.1800	50.00	45.10	90	70-127
Chromium	<0.3800	200.0	182.0	91	70-124
Copper	<0.7900	250.0	224.0	90	74-122
Lead	2.300	100.0	94.70	92	66-128
Nickel	6.380	500.0	446.0	88	70-126
Selenium	6.410	100.0	108.0	102	65-132
Silver	<0.7200	50.00	41.70	83	72-125
Thallium	<2.000	100.0	53.20	53 *	58-134
Zinc	5.160	500.0	460.0	91	69-129

Type: MSD Lab ID: QC149277

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	515.0	101	64-128	0	29
Arsenic	100.0	107.0	101	65-131	3	42
Beryllium	50.00	48.20	96	71-124	1	20
Cadmium	50.00	45.60	91	70-127	1	25
Chromium	200.0	183.0	92	70-124	1	20
Copper	250.0	224.0	90	74-122	0	20
Lead	100.0	94.20	92	66-128	1	29
Nickel	500.0	451.0	89	70-126	1	20
Selenium	100.0	108.0	102	65-132	0	40
Silver	50.00	41.70	83	72-125	0	30
Thallium	100.0	47.70	48 *	58-134	11	41
Zinc	500.0	461.0	91	69-129	0	33

Priority Pollutant Metals

Lab #:	152789	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	64790
Matrix:	Water	Prepared:	07/07/01
Units:	ug/L	Analyzed:	07/07/01
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC149739	5.000	4.750	95	80-116		
BSD	QC149740	5.000	4.860	97	80-116	2	20

Priority Pollutant Metals

Lab #: 152789
 Client: URS Corporation
 Project#: 510996706700
 Analyte: Mercury
 Field ID: ZZZZZZZZZZ
 MSS Lab ID: 152817-001
 Matrix: Water
 Units: ug/L
 Diln_Fac: 1.000

Location: UCB-Richmond Field Sta.
 Prep: METHOD
 Analysis: EPA 7470A
 Batch#: 64790
 Sampled: 06/29/01
 Received: 06/29/01
 Prepared: 07/07/01
 Analyzed: 07/07/01

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC149741	<0.04600	5.000	5.250	105	80-114		
MSD	QC149742		5.000	5.080	102	80-114	3	22



Priority Pollutant Metals

Lab #: 152789
 Client: URS Corporation
 Project#: 510996706700
 Analyte: Mercury
 Field ID: MF114-GW
 MSS Lab ID: 152789-001
 Matrix: Filtrate
 Units: ug/L
 Diln Fac: 1.000

Location: UCB-Richmond Field Sta.
 Prep: METHOD
 Analysis: EPA 7470A
 Batch#: 64790
 Sampled: 06/28/01
 Received: 06/28/01
 Prepared: 07/07/01
 Analyzed: 07/07/01

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC149743	0.2400	5.000	5.290	101	80-114		
MSD	QC149744		5.000	5.460	104	80-114	3	22





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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900


A N A L Y T I C A L R E P O R T

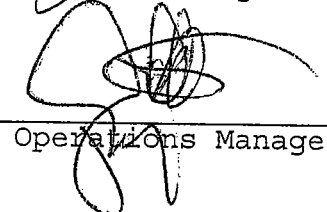
Prepared for:

URS Corporation
500 12th Street
Suite 200
Oakland, CA 94607

Date: 09-JUL-01
Lab Job Number: 152790
Project ID: 5108USS07000
Location: N/A

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: 
Project Manager

Reviewed by: 
Operations Manager

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Percent Moisture Summary Report

Date: 05-JUL-01
 Batch: 64732
 Analyst: MR

Sample	Method	Date	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
152790-001	CLP SOW 390	05-JUL-01	15.6142	22.5823	21.3574	82	18
152790-002	CLP SOW 390	05-JUL-01	15.8739	22.8916	21.4929	80	20
152790-003	CLP SOW 390	05-JUL-01	15.1418	22.3677	21.5045	88	12
152790-004	CLP SOW 390	05-JUL-01	15.3207	23.4205	21.616	78	22
152790-005	CLP SOW 390	05-JUL-01	15.31	23.1938	21.7852	82	18
152790-006	CLP SOW 390	05-JUL-01	15.1095	22.3006	21.7648	93	7
152790-007	CLP SOW 390	05-JUL-01	15.5511	23.0764	22.3416	90	10
152790-008	CLP SOW 390	05-JUL-01	15.1754	23.6516	22.756	89	11
152790-009	CLP SOW 390	05-JUL-01	15.326	22.7922	21.7501	86	14
152790-010	CLP SOW 390	05-JUL-01	15.801	23.3235	22.3756	87	13
152790-011	CLP SOW 390	05-JUL-01	15.2681	23.639	21.5767	75	25
152790-012	CLP SOW 390	05-JUL-01	15.5731	22.2217	20.9925	82	18
152790-013	CLP SOW 390	05-JUL-01	15.6331	22.1198	21.3517	88	12
152790-015	CLP SOW 390	05-JUL-01	14.9963	22.538	21.733	89	11
152790-016	CLP SOW 390	05-JUL-01	15.7674	22.4129	21.572	87	13
152790-017	CLP SOW 390	05-JUL-01	14.9804	23.3652	21.8749	82	18
152790-018	CLP SOW 390	05-JUL-01	15.565	22.4074	21.6123	88	12
QC149502	CLP SOW 390	05-JUL-01	15.8514	22.9215	21.7094	83	17
of 152790-001						RPD: 0.5%	2.5%

f

Percent Moisture Summary Report

Date: 10-JUL-01
Batch: 64853
Analyst: MR

Sample	Method	Date	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
152747-001	CLP SOW 390	10-JUL-01	15.2684	23.9439	23.176	91	9
152747-002	CLP SOW 390	10-JUL-01	15.2406	22.8148	21.999	89	11
152747-003	CLP SOW 390	10-JUL-01	15.8664	23.6481	22.8772	90	10
152790-014	CLP SOW 390	10-JUL-01	15.5514	22.3979	19.5677	59	41
152808-001	CLP SOW 390	10-JUL-01	15.7293	22.3361	17.428	26	74
152845-004	CLP SOW 390	10-JUL-01	15.5733	22.6698	22.1439	93	7
152845-005	CLP SOW 390	10-JUL-01	15.3704	22.934	21.8923	86	14
152845-006	CLP SOW 390	10-JUL-01	15.175	22.4776	21.897	92	8
152845-007	CLP SOW 390	10-JUL-01	15.6016	22.9386	21.9517	87	13
152845-008	CLP SOW 390	10-JUL-01	15.7677	22.4122	21.9018	92	8
152845-009	CLP SOW 390	10-JUL-01	15.5831	22.5203	21.9333	92	8
152845-010	CLP SOW 390	10-JUL-01	15.8519	22.0592	20.7741	79	21
152845-011	CLP SOW 390	10-JUL-01	15.3446	23.0263	22.3393	91	9
152845-012	CLP SOW 390	10-JUL-01	15.6675	22.4013	21.6679	89	11
152845-013	CLP SOW 390	10-JUL-01	15.3701	22.2822	21.7309	92	8
152848-001	CLP SOW 390	10-JUL-01	14.9897	22.2911	22.257	100	0
QC149988	CLP SOW 390	10-JUL-01	15.817	22.2485	22.2206	100	0
of 152848-001					RPD:	0.0%	7.4%

Mercury by Cold Vapor AA

Lab #:	152790	Prep:	METHOD
Client:	URS Corporation	Analysis:	EPA 7471
Project#:	5108USS07000		
Analyte:	Mercury	Sampled:	06/28/01
Matrix:	Soil	Received:	06/28/01
Units:	mg/Kg	Prepared:	07/02/01
Batch#:	64670	Analyzed:	07/02/01

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Diln	Fac
MF114-9.5	SAMPLE	152790-001	0.23	0.025	dry	18%	1.000	
MF114-13	SAMPLE	152790-002	170	5.1	dry	20%	200.0	
MF115-0	SAMPLE	152790-003	0.14	0.021	dry	12%	1.000	
MF115-6	SAMPLE	152790-004	3,900	93	dry	22%	3,500	
MF115-9.2	SAMPLE	152790-005	3.4	0.25	dry	18%	10.00	
MF115-12	SAMPLE	152790-006	5.3	0.24	dry	7%	10.00	
MF116-0	SAMPLE	152790-007	0.23	0.020	dry	10%	1.000	
MF116-9.5	SAMPLE	152790-008	510	17	dry	11%	800.0	
MF116-12	SAMPLE	152790-009	930	23	dry	14%	1,000	
MF117-0	SAMPLE	152790-010	0.67	0.24	dry	13%	10.00	
MF117-10	SAMPLE	152790-011	0.31	0.28	dry	25%	10.00	
MF117-13.5	SAMPLE	152790-012	0.21	0.024	dry	18%	1.000	
MF118-0	SAMPLE	152790-013	0.28	0.025	dry	12%	1.000	
MF118-6.5	SAMPLE	152790-014	64	3.5	dry	41%	100.0	
MF118-9	SAMPLE	152790-015	0.75	0.022	dry	11%	1.000	
MF119-0	SAMPLE	152790-016	0.13	0.021	dry	13%	1.000	
MF119-9	SAMPLE	152790-017	0.36	0.025	dry	18%	1.000	
MF119-13	SAMPLE	152790-018	ND	0.23	dry	12%	10.00	
	BLANK	QC149284	ND	0.020	wet		1.000	

Mercury by Cold Vapor AA			
Lab #:	152790	Prep:	METHOD
Client:	URS Corporation	Analysis:	EPA 7471
Project#:	5108USS07000		
Analyte:	Mercury	Batch#:	64670
Field ID:	MF114-9.5	Sampled:	06/28/01
MSS Lab ID:	152790-001	Received:	06/28/01
Matrix:	Soil	Prepared:	07/02/01
Units:	mg/Kg	Analyzed:	07/02/01
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	Basis	Moisture	RPD	Lim
BS	QC149285		0.5000	0.5480		110	80-114	wet			
BSD	QC149286		0.5000	0.5540		111	80-114	wet		1	35
SDUP	QC149287	0.2302		0.2198	0.025			dry	18%	5	35
SSPIKE	QC149288	0.2302	0.6487	0.7706		83	62-135	dry	18%		

(510) 674-3268



ANALYTICAL LABORATORIES, SINCE 1878
2323 FIFTH STREET
BERKELEY, CA 94710
PHONE (510) 486-0900
FAX (510) 486-0532

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TO Dore Anderson
Bill Conson

FROM Tracy Babjar (Tracy@ctberk.com)

COMPANY
231-1168

DATE 9/25/01

FAX NUMBER
PHONE NUMBER

PHONE NUMBER
(510) 486-0925 ext. 105

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- URGENT
- FOR REVIEW
- PLEASE COMMENT
- PLEASE REPLY
- PLEASE RECYCLE

NOTES/COMMENTS

154332

154332

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No. 7545 00-005040		Project Location. ALHAMBRA FIELD STATION		Date: 9/21/01		Serial No. N° 3689	
Project Name: ZENEZA		Field Logbook No: CNS #1		ANALYSES		Samplers: CNS	
Sampler (Signature) <i>[Signature]</i>		SAMPLER		SAMPLING		REMARKS	
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO OF CON. TAINERS	SAMPLE TYPE	ANALYSES (METHS) (LTP)	REMARKS
A4-1A	9/21/01	1100		3	WATER	X	<p>Precise filter samples upon arrival</p> <p>fax results to Bill Jackson 510.652.2246</p> <p>RKH TATS</p> <p>please fax results to JANE ANDERSON (ZENEZA INC.)</p>
A4-1B		1045		1		X	
A4-2A		1315		1		X	
A4-3A		1440		1		X	
A4-2B		1530		1		X	
A4-3B		1615		3		X	
A4-4B		1645					
A4-4B-DUP		1650					
RELINQUISHED BY: <i>[Signature]</i>		DATE	TIME	RECEIVED BY: <i>[Signature]</i>	DATE	TIME	
RELINQUISHED BY: <i>[Signature]</i>		DATE	TIME	RECEIVED BY: <i>[Signature]</i>	DATE	TIME	
RELINQUISHED BY: <i>[Signature]</i>		DATE	TIME	RECEIVED BY: <i>[Signature]</i>	DATE	TIME	
METHOD OF SHIPMENT:		DATE	TIME	LAB COMMENTS:			
Sample Collector: LEVINE-FRICKE-RECON 1900 Powell Street, 12th Floor Emeryville, California 94608-1827 (510) 652-4500				Analytical Laboratory: RCD code for ice - Tompkins COPATIS + TOMPKINS			

SOP Volume: Client Services
 Section: 1.1.2
 Page: 1 of 1
 Effective Date: 10-May-99
 Revision: 1 Number 1 of 3
 Filename: F:\QC\Forms\QC\Cooler.wpd



COOLER RECEIPT CHECKLIST

Login#: 154332 Date Received: 9/21/01 Number of Coolers: 1
 Client: LFR Project: 2545.20 Q40

- A. Preliminary Examination Phase**
 Date Opened: 9/21 By (print): Justin (sign) [Signature]
1. Did cooler come with a shipping slip (airbill, etc.)? YES NO
 If YES, enter carrier name and airbill number: _____
 2. Were custody seals on outside of cooler? YES NO
 How many and where? _____ Seal date: _____ Seal name: _____
 3. Were custody seals unbroken and intact at the date and time of arrival? YES NO
 4. Were custody papers dry and intact when received? YES NO
 5. Were custody papers filled out properly (ink, signed, etc.)? YES NO
 6. Did you sign the custody papers in the appropriate place? YES NO
 7. Was project identifiable from custody papers? YES NO
 If YES, enter project name at the top of this form.
 8. If required, was sufficient ice used? Samples should be 2-6 degrees C. YES NO
 Type of ice: ice Temperature: Chilled

- B. Login Phase**
 Date Logged In: 9/21 By (print): Justin (sign) [Signature]
1. Describe type of packing in cooler: 2 ziplocks
 2. Did all bottles arrive unbroken? YES NO
 3. Were labels in good condition and complete (ID, date, time, signature, etc.)? YES NO
 4. Did bottle labels agree with custody papers? YES NO
 5. Were appropriate containers used for the tests indicated? YES NO
 6. Were correct preservatives added to samples? YES NO
 7. Was sufficient amount of sample sent for tests indicated? YES NO
 8. Were bubbles absent in VOA samples? If NO, list sample Ids below. YES NO
 9. Was the client contacted concerning this sample delivery? YES NO
 If YES, give details below.
 Who was called? _____ By whom? _____ Date: _____

Additional Comments:



California Title 26 Metals

Lab #:	154332	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.040		
Field ID:	A4-1A	Diln Fac:	1.000
Lab ID:	154332-001	Sampled:	09/21/01
Matrix:	Filtrate	Received:	09/21/01
Units:	ug/L	Analyzed:	09/25/01

Analyte	Result	RL	Sample	Prepared	Analyte
Antimony	ND	60	66608	09/24/01	EPA 6010B
Arsenic	6.3	5.0	66608	09/24/01	EPA 6010B
Barium	20	10	66608	09/24/01	EPA 6010B
Beryllium	ND	2.0	66608	09/24/01	EPA 6010B
Cadmium	ND	5.0	66608	09/24/01	EPA 6010B
Chromium	ND	10	66608	09/24/01	EPA 6010B
Cobalt	ND	20	66608	09/24/01	EPA 6010B
Copper	ND	10	66608	09/24/01	EPA 6010B
Lead	ND	3.0	66608	09/24/01	EPA 6010B
Mercury	0.73	0.20	66636	09/25/01	EPA 7470A
Molybdenum	ND	20	66608	09/24/01	EPA 6010B
Nickel	ND	20	66608	09/24/01	EPA 6010B
Selenium	ND	5.0	66608	09/24/01	EPA 6010B
Silver	ND	5.0	66608	09/24/01	EPA 6010B
Thallium	ND	5.0	66608	09/24/01	EPA 6010B
Vanadium	ND	10	66608	09/24/01	EPA 6010B
Zinc	ND	20	66608	09/24/01	EPA 6010B

ND= Not Detected
 RL= Reporting Limit
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California Title 26 Metals

Lab #:	154332	Location:	Zeneca
Client:	LPR Levine Fricke	Prep:	METHOD
Project#:	7545.00.040		
Field ID:	A4-1B	Diln Fac:	1.000
Lab ID:	154332-002	Sampled:	09/21/01
Matrix:	Filtrate	Received:	09/21/01
Units:	ug/L	Analyzed:	09/25/01

Analyte	Result	RL	Batch	Prepared	Analysis
Antimony	ND	60	66608	09/24/01	EPA 6010B
Arsenic	66	5.0	66608	09/24/01	EPA 6010B
Barium	58	10	66608	09/24/01	EPA 6010B
Beryllium	ND	2.0	66608	09/24/01	EPA 6010B
Cadmium	ND	5.0	66608	09/24/01	EPA 6010B
Chromium	ND	10	66608	09/24/01	EPA 6010B
Cobalt	ND	20	66608	09/24/01	EPA 6010B
Copper	ND	10	66608	09/24/01	EPA 6010B
Lead	ND	3.0	66608	09/24/01	EPA 6010B
Mercury	0.25	0.20	66636	09/25/01	EPA 7470A
Molybdenum	ND	20	66608	09/24/01	EPA 6010B
Nickel	ND	20	66608	09/24/01	EPA 6010B
Selenium	ND	5.0	66608	09/24/01	EPA 6010B
Silver	ND	5.0	66608	09/24/01	EPA 6010B
Thallium	ND	5.0	66608	09/24/01	EPA 6010B
Vanadium	ND	10	66608	09/24/01	EPA 6010B
Zinc	ND	20	66608	09/24/01	EPA 6010B

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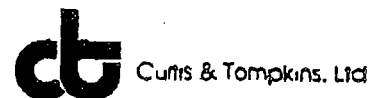


Cumis & Tompkins, Ltd.

California Title 26 Metals			
Lab #:	154332	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.040		
Field ID:	A4-2A	Diln Fac:	1.000
Lab ID:	154332-003	Sampled:	09/21/01
Matrix:	Filtrate	Received:	09/21/01
Units:	ug/L	Analyzed:	09/25/01

Analysis	Result	RL	Batch	Prepared	Analysis
Antimony	ND	60	66608	09/24/01	EPA 6010B
Arsenic	ND	5.0	66608	09/24/01	EPA 6010B
Barium	31	10	66608	09/24/01	EPA 6010B
Beryllium	ND	2.0	66608	09/24/01	EPA 6010B
Cadmium	ND	5.0	66608	09/24/01	EPA 6010B
Chromium	ND	10	66608	09/24/01	EPA 6010B
Cobalt	ND	20	66608	09/24/01	EPA 6010B
Copper	ND	10	66608	09/24/01	EPA 6010B
Lead	ND	3.0	66608	09/24/01	EPA 6010B
Mercury	0.35	0.20	66636	09/25/01	EPA 7470A
Molybdenum	ND	20	66608	09/24/01	EPA 6010B
Nickel	ND	20	66608	09/24/01	EPA 6010B
Selenium	ND	5.0	66608	09/24/01	EPA 6010B
Silver	ND	5.0	66608	09/24/01	EPA 6010B
Thallium	ND	5.0	66608	09/24/01	EPA 6010B
Vanadium	ND	10	66608	09/24/01	EPA 6010B
Zinc	ND	20	66608	09/24/01	EPA 6010B

ND= Not Detected
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California Title 26 Metals

Lab #:	154332	Location:	Zeneca
Client:	LFR Levine Fracke	Prep:	METHOD
Project#:	7545.00.040		
Field ID:	A4-3A	Diln Fac:	1.000
Lab ID:	154332-004	Sampled:	09/21/01
Matrix:	Filtrate	Received:	09/21/01
Units:	ug/L	Analyzed:	09/25/01

Analyte	Result	RL	Batch	Prepared	Analyzed
Antimony	ND		60	66608 09/24/01	EPA 6010B
Arsenic	5.4	5.0	5.0	66608 09/24/01	EPA 6010B
Barium	18	10	10	66608 09/24/01	EPA 6010B
Beryllium	ND	2.0	2.0	66608 09/24/01	EPA 6010B
Cadmium	ND	5.0	5.0	66608 09/24/01	EPA 6010B
Chromium	ND	10	10	66608 09/24/01	EPA 6010B
Cobalt	ND	20	20	66608 09/24/01	EPA 6010B
Copper	ND	10	10	66608 09/24/01	EPA 6010B
Lead	ND	3.0	3.0	66608 09/24/01	EPA 6010B
Mercury	0.25	0.20	0.20	66636 09/25/01	EPA 7470A
Molybdenum	ND	20	20	66608 09/24/01	EPA 6010B
Nickel	ND	20	20	66608 09/24/01	EPA 6010B
Selenium	ND	5.0	5.0	66608 09/24/01	EPA 6010B
Silver	ND	5.0	5.0	66608 09/24/01	EPA 6010B
Thallium	ND	5.0	5.0	66608 09/24/01	EPA 6010B
Vanadium	ND	10	10	66608 09/24/01	EPA 6010B
Zinc	ND	20	20	66608 09/24/01	EPA 6010B

ND= Not Detected
 RL= Reporting Limit
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California Title 26 Metals			
Lab #:	154332	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.040		
Field ID:	A4-2B	Diln Fac:	1.000
Lab ID:	154332-005	Sampled:	09/21/01
Matrix:	Filtrate	Received:	09/21/01
Units:	ug/L	Analyzed:	09/25/01

Analysed	Result	RL	Batch	Prepared	Analysed
Antimony	ND	60	66608	09/24/01	EPA 6010B
Arsenic	72	5.0	66608	09/24/01	EPA 6010B
Barium	190	10	66608	09/24/01	EPA 6010B
Beryllium	ND	2.0	66608	09/24/01	EPA 6010B
Cadmium	ND	5.0	66608	09/24/01	EPA 6010B
Chromium	ND	10	66608	09/24/01	EPA 6010B
Cobalt	ND	20	66608	09/24/01	EPA 6010B
Copper	ND	10	66608	09/24/01	EPA 6010B
Lead	ND	3.0	66608	09/24/01	EPA 6010B
Mercury	0.50	0.20	66636	09/25/01	EPA 7470A
Molybdenum	ND	20	66608	09/24/01	EPA 6010B
Nickel	ND	20	66608	09/24/01	EPA 6010B
Selenium	ND	5.0	66608	09/24/01	EPA 6010B
Silver	ND	5.0	66608	09/24/01	EPA 6010B
Thallium	ND	5.0	66608	09/24/01	EPA 6010B
Vanadium	ND	10	66608	09/24/01	EPA 6010B
Zinc	ND	20	66608	09/24/01	EPA 6010B

ND= Not Detected
 RL= Reporting Limit
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California Title 26 Details

Lab #:	154332	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.040		
Field ID:	A4-3B	Diln Fac:	1.000
Lab ID:	154332-006	Sampled:	09/21/01
Matrix:	Filtrate	Received:	09/21/01
Units:	ug/L	Analyzed:	09/25/01

Analyte	Result	RL	Batch	Prepared	Analysis
Antimony	ND	60	66608	09/24/01	EPA 6010B
Arsenic	190	5.0	66608	09/24/01	EPA 6010B
Barium	160	10	66608	09/24/01	EPA 6010B
Beryllium	ND	2.0	66608	09/24/01	EPA 6010B
Cadmium	ND	5.0	66608	09/24/01	EPA 6010B
Chromium	ND	10	66608	09/24/01	EPA 6010B
Cobalt	ND	20	66608	09/24/01	EPA 6010B
Copper	ND	10	66608	09/24/01	EPA 6010B
Lead	ND	3.0	66608	09/24/01	EPA 6010B
Mercury	0.38	0.20	66636	09/25/01	EPA 7470A
Molybdenum	ND	20	66608	09/24/01	EPA 6010B
Nickel	ND	20	66608	09/24/01	EPA 6010B
Selenium	ND	5.0	66608	09/24/01	EPA 6010B
Silver	ND	5.0	66608	09/24/01	EPA 6010B
Thallium	ND	5.0	66608	09/24/01	EPA 6010B
Vanadium	ND	10	66608	09/24/01	EPA 6010B
Zinc	ND	20	66608	09/24/01	EPA 6010B

ND= Not Detected
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California Title 26 Metals			
Lab #:	154332	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.040		
Field ID:	A4-EB 4B	Diln Fac:	1.000
Lab ID:	154332-007	Sampled:	09/21/01
Matrix:	Filtrate	Received:	09/21/01
Units:	ug/L	Analyzed:	09/25/01

Anal. No.	Result	RL	Lab No.	Prepared	Analysis
Antimony	ND	60	66608	09/24/01	EPA 6010B
Arsenic	28	5.0	66608	09/24/01	EPA 6010B
Barium	49	10	66608	09/24/01	EPA 6010B
Beryllium	ND	2.0	66608	09/24/01	EPA 6010B
Cadmium	ND	5.0	66608	09/24/01	EPA 6010B
Chromium	ND	10	66608	09/24/01	EPA 6010B
Cobalt	ND	20	66608	09/24/01	EPA 6010B
Copper	ND	10	66608	09/24/01	EPA 6010B
Lead	ND	3.0	66608	09/24/01	EPA 6010B
Mercury	0.47	0.20	66636	09/25/01	EPA 7470A
Molybdenum	ND	20	66608	09/24/01	EPA 6010B
Nickel	ND	20	66608	09/24/01	EPA 6010B
Selenium	ND	5.0	66608	09/24/01	EPA 6010B
Silver	ND	5.0	66608	09/24/01	EPA 6010B
Thallium	ND	5.0	66608	09/24/01	EPA 6010B
Vanadium	ND	10	66608	09/24/01	EPA 6010B
Zinc	ND	20	66608	09/24/01	EPA 6010B

ND= Not Detected
 RL= Reporting Limit
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California Title 26 Metals

Lab #:	154332	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.040		
Field ID:	A4-4B-DUP	Diln Fac:	1.000
Lab ID:	154332-008	Sampled:	09/21/01
Matrix:	Filtrate	Received:	09/21/01
Units:	ug/L	Analyzed:	09/25/01

Analyte	Result	RL	Method	Prepared	Analysis
Antimony	ND		60	66608 09/24/01	EPA 6010B
Arsenic	99		5.0	66608 09/24/01	EPA 6010B
Barium	52		10	66608 09/24/01	EPA 6010B
Beryllium	ND		2.0	66608 09/24/01	EPA 6010B
Cadmium	ND		5.0	66608 09/24/01	EPA 6010B
Chromium	ND		10	66608 09/24/01	EPA 6010B
Cobalt	ND		20	66608 09/24/01	EPA 6010B
Copper	ND		10	66608 09/24/01	EPA 6010B
Lead	ND		3.0	66608 09/24/01	EPA 6010B
Mercury	0.51		0.20	66636 09/25/01	EPA 7470A
Molybdenum	ND		20	66608 09/24/01	EPA 6010B
Nickel	ND		20	66608 09/24/01	EPA 6010B
Selenium	ND		5.0	66608 09/24/01	EPA 6010B
Silver	ND		5.0	66608 09/24/01	EPA 6010B
Thallium	ND		5.0	66608 09/24/01	EPA 6010B
Vanadium	ND		10	66608 09/24/01	EPA 6010B
Zinc	26		20	66608 09/24/01	EPA 6010B

ND= Not Detected
 RL= Reporting Limit
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California Title 26 Metals

Lab #:	154332	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.040	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC156856	Batch#:	66608
Matrix:	Filtrate	Prepared:	09/24/01
Units:	ug/L	Analyzed:	09/25/01

Analysis	Result	RL
Antimony	ND	60
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	ND	5.0
Chromium	ND	10
Cobalt	ND	20
Copper	ND	10
Lead	ND	3.0
Molybdenum	ND	20
Nickel	ND	20
Selenium	ND	5.0
Silver	ND	5.0
Thallium	ND	5.0
Vanadium	ND	10
Zinc	ND	20

ND= Not Detected
 RL= Reporting Limit
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California Title 26 Metals			
Lab #:	154332	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.040	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	66636
Lab ID:	QC156955	Prepared:	09/25/01
Matrix:	Water	Analyzed:	09/25/01
Units:	ug/L		
Results			
ND		0.20	

ND= Not Detected
 RL= Reporting Limit
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California Title 26 Metals			
Lab #:	154332	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.040	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	66636
Lab ID:	QC156962	Prepared:	09/25/01
Matrix:	WET Leachate	Analyzed:	09/25/01
Units:	ug/L		
Result	RL		
ND	1.0		

ND= Not Detected
 RL= Reporting Limit
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Curris & Tompkins, Ltd

California Title 26 Metals			
Lab #:	154332	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.040	Analysis:	EPA 6010B
Matrix:	Filtrate	Batch#:	66608
Units:	ug/L	Prepared:	09/24/01
Diln Fac:	1.000	Analyzed:	09/25/01

Type: BS Lab ID: QC156857

Element	Spiked	Result	QC	RPD
Antimony	500.0	434.0	87	75-123
Arsenic	100.0	97.30	97	80-120
Barium	2,000	1,880	94	80-116
Beryllium	50.00	49.60	99	80-116
Cadmium	50.00	45.30	91	80-126
Chromium	200.0	196.0	98	80-113
Cobalt	500.0	481.0	96	80-112
Copper	250.0	242.0	97	80-114
Lead	100.0	97.20	97	78-120
Molybdenum	400.0	388.0	97	80-114
Nickel	500.0	470.0	94	80-116
Selenium	100.0	98.00	98	79-120
Silver	50.00	50.10	100	80-120
Thallium	100.0	88.10	88	80-119
Vanadium	500.0	496.0	99	80-111
Zinc	500.0	475.0	95	72-126

Type: BSD Lab ID: QC156858

Element	Spiked	Result	QC	RPD	RPD
Antimony	500.0	489.0	98	75-123	12
Arsenic	100.0	97.90	98	80-120	1
Barium	2,000	1,910	96	80-116	2
Beryllium	50.00	49.60	99	80-116	0
Cadmium	50.00	45.30	91	80-126	0
Chromium	200.0	197.0	99	80-113	1
Cobalt	500.0	482.0	96	80-112	0
Copper	250.0	245.0	98	80-114	1
Lead	100.0	97.60	98	78-120	0
Molybdenum	400.0	392.0	98	80-114	1
Nickel	500.0	470.0	94	80-116	0
Selenium	100.0	97.80	98	79-120	0
Silver	50.00	50.20	100	80-120	0
Thallium	100.0	87.60	88	80-119	1
Vanadium	500.0	500.0	100	80-111	1
Zinc	500.0	476.0	95	72-126	0

RPD= Relative Percent Difference
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California Title 26 Metals

Lab #:	154332	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.040	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SDUP	Batch#:	66608
MSS Lab ID:	154226-001	Sampled:	09/19/01
Lab ID:	QC156859	Received:	09/19/01
Matrix:	Filtrate	Prepared:	09/24/01
Units:	ug/L	Analyzed:	09/25/01

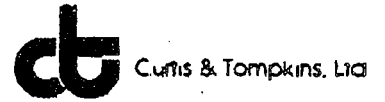
Analyte	MSS Result	Result	RL	CRP	SL
Antimony	<60.00	ND	60	NC	29
Arsenic	11.40	7.640	5.0	39	42
Barium	170.0	145.0	10	16	20
Beryllium	<2.000	ND	2.0	NC	20
Cadmium	<5.000	ND	5.0	NC	25
Chromium	<10.00	ND	10	NC	20
Cobalt	<20.00	ND	20	NC	20
Copper	<10.00	ND	10	NC	20
Lead	<3.000	ND	3.0	NC	29
Molybdenum	<20.00	ND	20	NC	20
Nickel	<20.00	ND	20	NC	20
Selenium	<5.000	ND	5.0	NC	40
Silver	<5.000	ND	5.0	NC	30
Thallium	<5.000	ND	5.0	NC	41
Vanadium	<10.00	ND	10	NC	41
Zinc	<20.00	ND	20	NC	33

NC= Not Calculated
 ND= Not Detected
 RL= Reporting Limit
 RPD= Relative Percent Difference
 Page 1 of 1



California Title 26 Metals			
Lab #:	154332	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.040	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SSPIKE	Batch#:	66608
MSS Lab ID:	154226-001	Sampled:	09/19/01
Lab ID:	QC156860	Received:	09/19/01
Matrix:	Filtrate	Prepared:	09/24/01
Units:	ug/L	Analyzed:	09/25/01

Analyte	MSS Result	Spiked	Result	RM	Units
Antimony	42.50	500.0	420.0	76	64-128
Arsenic	11.40	100.0	115.0	104	65-131
Barium	170.0	2,000	1,940	89	75-120
Beryllium	<0.2500	50.00	50.00	100	71-124
Cadmium	<0.4000	50.00	44.30	89	70-127
Chromium	1.500	200.0	194.0	96	70-124
Cobalt	6.360	500.0	475.0	94	73-122
Copper	<0.6200	250.0	240.0	96	74-122
Lead	1.660	100.0	96.20	95	66-128
Molybdenum	<2.600	400.0	395.0	99	72-122
Nickel	11.70	500.0	460.0	90	70-126
Selenium	<3.400	100.0	112.0	112	65-132
Silver	<0.6200	50.00	41.60	83	72-125
Thallium	<4.100	100.0	74.20	74	58-134
Vanadium	1.620	500.0	500.0	100	58-134
Zinc	14.20	500.0	487.0	95	69-129

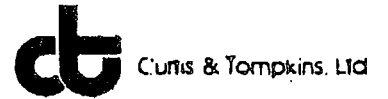


California Title 26 Metals

Lab #:	154332	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.040	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	66636
Matrix:	Water	Prepared:	09/25/01
Units:	ug/L	Analyzed:	09/25/01
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	MEC	Lim	RPD	Lim
BS	QC156956	5.000	5.468	109	80-116		
BSD	QC156957	5.000	5.672	113	80-116	4	20

RPD= Relative Percent Difference
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California Title 26 Metals			
Lab #:	154332	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.040	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	66636
Field ID:	ZZZZZZZZZZ	Sampled:	09/21/01
MSS Lab ID:	154334-001	Received:	09/21/01
Matrix:	Water	Prepared:	09/25/01
Units:	ug/L	Analyzed:	09/25/01
Diln Fac:	1.000		

Type	Lab ID	MSS Limit	RPD	Result	RPD	Limit	RPD
MS	QC156958	0.1185	5.000	5.785	113	80-114	
MSD	QC156959		5.000	5.848	115	80-114	1 22

*= Value outside of QC limits; see narrative
 RPD= Relative Percent Difference
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California Title 26 Metals				
Lab #:	154332	Location:	Zeneca	
Client:	LFR Levine Fricke	Prep:	METHOD	
Project#:	7545.00.040	Analysis:	EPA 7470A	
Analyte:	Mercury	Diln Fac:	1.000	
Field ID:	ZZZZZZZZZZ	Batch#:	66636	
Type:	MS	Sampled:	09/24/01	
MSS Lab ID:	154352-001	Received:	09/24/01	
Lab ID:	QC156961	Prepared:	09/25/01	
Matrix:	Water	Analyzed:	09/25/01	
Units:	ug/L			
MSL Result	Spiked	Result	Std	Limit
0.4754	5.000	6.130	113	80-114



Lab #:	154332	Location:	Zeneca
Client:	LFR Levine Fricke	Analysis:	EPA 9040B
Project#:	7545.00.040		
Analyte:	pH	Batch#:	66599
Matrix:	Water	Sampled:	09/21/01
Units:	SU	Received:	09/21/01
Diln Fac:	1.000	Analyzed:	09/21/01

Sample ID	Cap ID	Result	RL
A4-1A	154332-001	7.2	1.0
A4-1B	154332-002	6.6	1.0
A4-2A	154332-003	7.1	1.0
A4-2A	154332-004	7.0	1.0
A4-2B	154332-005	8.0	1.0
A4-3B	154332-006	7.5	1.0
A4-3B ⁴⁸	154332-007	6.5	1.0
A4-4B-DUP	154332-008	6.5	1.0

RL= Reporting Limit
 Page 1 of 1



Lab #: 154332			
Client: LFR Levine Fricke		Location: Zeneca	
Project#: 7545.00.040		Analysis: EPA 9040B	
Analyte: pH		Units: SU	
Field ID: A4-48-DUP		Diln Fac: 1.000	
Type: SDUP		Batch#: 66599	
MSS Lab ID: 154332-008		Sampled: 09/21/01	
Lab ID: QC156834		Received: 09/21/01	
Matrix: Water		Analyzed: 09/21/01	
MSD Results			
6.500		6.480	
		1.0 0 20	

RL= Reporting Limit
RPD= Relative Percent Difference
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Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	66801
Units:	ug/L	Analyzed:	10/02/01
Diln Fac:	1.000		

Type: BS Lab ID: QC157566

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	51.15	102	74-132
Benzene	50.00	46.66	93	80-116
Trichloroethene	50.00	50.70	101	80-119
Toluene	50.00	50.21	100	80-120
Chlorobenzene	50.00	48.07	96	80-117

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-122
1,2-Dichloroethane-d4	113	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	101	80-115

Type: BSD Lab ID: QC157567

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	48.41	97	74-132	6	20
Benzene	50.00	45.71	91	80-116	2	20
Trichloroethene	50.00	48.11	96	80-119	5	20
Toluene	50.00	50.23	100	80-120	0	20
Chlorobenzene	50.00	47.87	96	80-117	0	20

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-122
1,2-Dichloroethane-d4	111	78-123
Toluene-d8	101	80-110
Bromofluorobenzene	100	80-115

Purgeable Organics by GC/MS			
Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	PB6-7.3	Diln Fac:	0.9804
Lab ID:	154352-007	Batch#:	66783
Matrix:	Soil	Sampled:	09/24/01
Units:	ug/Kg	Received:	09/24/01
Basis:	dry	Analyzed:	10/01/01

Moisture: 16%

Analyte	Result	RL
Freon 12	ND	12
Chloromethane	ND	12
Vinyl Chloride	ND	12
Bromomethane	ND	12
Chloroethane	ND	12
Trichlorofluoromethane	ND	5.8
Acetone	ND	23
Freon 113	ND	5.8
1,1-Dichloroethene	ND	5.8
Methylene Chloride	ND	23
Carbon Disulfide	ND	5.8
MTBE	ND	5.8
trans-1,2-Dichloroethene	ND	5.8
Vinyl Acetate	ND	58
1,1-Dichloroethane	ND	5.8
2-Butanone	ND	12
cis-1,2-Dichloroethene	ND	5.8
2,2-Dichloropropane	ND	5.8
Chloroform	ND	5.8
Bromochloromethane	ND	5.8
1,1,1-Trichloroethane	ND	5.8
1,1-Dichloropropene	ND	5.8
Carbon Tetrachloride	ND	5.8
1,2-Dichloroethane	ND	5.8
Benzene	ND	5.8
Trichloroethene	ND	5.8
1,2-Dichloropropane	ND	5.8
Bromodichloromethane	ND	5.8
Dibromomethane	ND	5.8
4-Methyl-2-Pentanone	ND	12
cis-1,3-Dichloropropene	ND	5.8
Toluene	ND	5.8
trans-1,3-Dichloropropene	ND	5.8
1,1,2-Trichloroethane	ND	5.8
2-Hexanone	ND	5.8
1,3-Dichloropropane	ND	12
Tetrachloroethene	ND	5.8
Dibromochloromethane	ND	5.8
1,2-Dibromoethane	ND	5.8
Chlorobenzene	ND	5.8
1,1,1,2-Tetrachloroethane	ND	5.8
Ethylbenzene	ND	5.8
m,p-Xylenes	ND	5.8
o-Xylene	ND	5.8
Styrene	ND	5.8
Bromoform	ND	5.8
Isopropylbenzene	ND	5.8
1,1,2,2-Tetrachloroethane	ND	5.8
1,2,3-Trichloropropane	ND	5.8
Propylbenzene	ND	5.8
Bromobenzene	ND	5.8
1,3,5-Trimethylbenzene	ND	5.8
2-Chlorotoluene	ND	5.8

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	PB6-7.3	Diln Fac:	0.9804
Lab ID:	154352-007	Batch#:	66783
Matrix:	Soil	Sampled:	09/24/01
Units:	ug/Kg	Received:	09/24/01
Basis:	dry	Analyzed:	10/01/01

Analyte	Result	RL
4-Chlorotoluene	ND	5.8
tert-Butylbenzene	ND	5.8
1,2,4-Trimethylbenzene	ND	5.8
sec-Butylbenzene	ND	5.8
para-Isopropyl Toluene	ND	5.8
1,3-Dichlorobenzene	ND	5.8
1,4-Dichlorobenzene	ND	5.8
n-Butylbenzene	ND	5.8
1,2-Dichlorobenzene	ND	5.8
1,2-Dibromo-3-Chloropropane	ND	5.8
1,2,4-Trichlorobenzene	ND	5.8
Hexachlorobutadiene	ND	5.8
Naphthalene	ND	5.8
1,2,3-Trichlorobenzene	ND	5.8

Surrogate	REC	Limits
Dibromofluoromethane	118	63-133
1,2-Dichloroethane-d4	120	76-127
Toluene-d8	101	80-111
Bromofluorobenzene	113	77-126

Purgeable Organics by GC/MS			
Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	PB7-9	Diln Fac.:	0.9804
Lab ID:	154352-008	Batch#:	66783
Matrix:	Soil	Sampled:	09/24/01
Units:	ug/Kg	Received:	09/24/01
Basis:	dry	Analyzed:	10/01/01

Moisture: 10%

Analyte	Result	RL
Freon 12	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5.4
Acetone	ND	22
Freon 113	ND	5.4
1,1-Dichloroethene	ND	5.4
Methylene Chloride	ND	22
Carbon Disulfide	ND	5.4
MTBE	ND	5.4
trans-1,2-Dichloroethene	ND	5.4
Vinyl Acetate	ND	5.4
1,1-Dichloroethane	ND	54
2-Butanone	ND	5.4
cis-1,2-Dichloroethene	ND	11
2,2-Dichloropropane	ND	5.4
Chloroform	ND	5.4
Bromochloromethane	ND	5.4
1,1,1-Trichloroethane	ND	5.4
1,1-Dichloropropene	ND	5.4
Carbon Tetrachloride	ND	5.4
1,2-Dichloroethane	ND	5.4
Benzene	ND	5.4
Trichloroethene	ND	5.4
1,2-Dichloropropane	ND	5.4
Bromodichloromethane	ND	5.4
Dibromomethane	ND	5.4
4-Methyl-2-Pentanone	ND	5.4
cis-1,3-Dichloropropene	ND	11
Toluene	ND	5.4
trans-1,3-Dichloropropene	ND	5.4
1,1,2-Trichloroethane	ND	5.4
2-Hexanone	ND	5.4
1,3-Dichloropropane	ND	11
Tetrachloroethene	ND	5.4
Dibromochloromethane	ND	5.4
1,2-Dibromoethane	ND	5.4
Chlorobenzene	ND	5.4
1,1,1,2-Tetrachloroethane	ND	5.4
Ethylbenzene	ND	5.4
m,p-Xylenes	ND	5.4
o-Xylene	ND	5.4
Styrene	ND	5.4
Bromoform	ND	5.4
Isopropylbenzene	ND	5.4
1,1,2,2-Tetrachloroethane	ND	5.4
1,2,3-Trichloropropane	ND	5.4
Propylbenzene	ND	5.4
Bromobenzene	ND	5.4
1,3,5-Trimethylbenzene	ND	5.4
2-Chlorotoluene	ND	5.4

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	PB7-9	Diln Fac:	0.9804
Lab ID:	154352-008	Batch#:	66783
Matrix:	Soil	Sampled:	09/24/01
Units:	ug/Kg	Received:	09/24/01
Basis:	dry	Analyzed:	10/01/01

Analyte	Result	RL
4-Chlorotoluene	ND	5.4
tert-Butylbenzene	ND	5.4
1,2,4-Trimethylbenzene	ND	5.4
sec-Butylbenzene	ND	5.4
para-Isopropyl Toluene	ND	5.4
1,3-Dichlorobenzene	ND	5.4
1,4-Dichlorobenzene	ND	5.4
n-Butylbenzene	ND	5.4
1,2-Dichlorobenzene	ND	5.4
1,2-Dibromo-3-Chloropropane	ND	5.4
1,2,4-Trichlorobenzene	ND	5.4
Hexachlorobutadiene	ND	5.4
Naphthalene	ND	5.4
1,2,3-Trichlorobenzene	ND	5.4

Surrogate	%REC	Limits
Dibromofluoromethane	115	63-133
1,2-Dichloroethane-d4	125	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	120	77-126

Purgeable Organics by GC/MS			
Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	PB8-6.5	Diln Fac:	0.9259
Lab ID:	154352-009	Batch#:	66783
Matrix:	Soil	Sampled:	09/24/01
Units:	ug/Kg	Received:	09/24/01
Basis:	dry	Analyzed:	10/01/01

Moisture: 16%

Analyte	Result	RL
Freon 12	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5.5
Acetone	ND	22
Freon 113	ND	5.5
1,1-Dichloroethene	ND	5.5
Methylene Chloride	ND	22
Carbon Disulfide	ND	5.5
MTBE	ND	5.5
trans-1,2-Dichloroethene	ND	5.5
Vinyl Acetate	ND	55
1,1-Dichloroethane	ND	5.5
2-Butanone	ND	11
cis-1,2-Dichloroethene	ND	5.5
2,2-Dichloropropane	ND	5.5
Chloroform	ND	5.5
Bromochloromethane	ND	5.5
1,1,1-Trichloroethane	ND	5.5
1,1-Dichloropropene	ND	5.5
Carbon Tetrachloride	ND	5.5
1,2-Dichloroethane	ND	5.5
Benzene	ND	5.5
Trichloroethene	ND	5.5
1,2-Dichloropropane	ND	5.5
Bromodichloromethane	ND	5.5
Dibromomethane	ND	5.5
4-Methyl-2-Pentanone	ND	5.5
cis-1,3-Dichloropropene	ND	11
Toluene	ND	5.5
trans-1,3-Dichloropropene	ND	5.5
1,1,2-Trichloroethane	ND	5.5
2-Hexanone	ND	5.5
1,3-Dichloropropane	ND	11
Tetrachloroethene	ND	5.5
Dibromochloromethane	ND	5.5
1,2-Dibromoethane	ND	5.5
Chlorobenzene	ND	5.5
1,1,1,2-Tetrachloroethane	ND	5.5
Ethylbenzene	ND	5.5
m,p-Xylenes	ND	5.5
o-Xylene	ND	5.5
Styrene	ND	5.5
Bromoform	ND	5.5
Isopropylbenzene	ND	5.5
1,1,2,2-Tetrachloroethane	ND	5.5
1,2,3-Trichloropropane	ND	5.5
Propylbenzene	ND	5.5
Bromobenzene	ND	5.5
1,3,5-Trimethylbenzene	ND	5.5
2-Chlorotoluene	ND	5.5

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS			
Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	PB8-6.5	Diln Fac:	0.9259
Lab ID:	154352-009	Batch#:	66783
Matrix:	Soil	Sampled:	09/24/01
Units:	ug/Kg	Received:	09/24/01
Basis:	dry	Analyzed:	10/01/01

Analyte	Result	RL
4-Chlorotoluene	ND	5.5
tert-Butylbenzene	ND	5.5
1,2,4-Trimethylbenzene	ND	5.5
sec-Butylbenzene	ND	5.5
para-Isopropyl Toluene	ND	5.5
1,3-Dichlorobenzene	ND	5.5
1,4-Dichlorobenzene	ND	5.5
n-Butylbenzene	ND	5.5
1,2-Dichlorobenzene	ND	5.5
1,2-Dibromo-3-Chloropropane	ND	5.5
1,2,4-Trichlorobenzene	ND	5.5
Hexachlorobutadiene	ND	5.5
Naphthalene	ND	5.5
1,2,3-Trichlorobenzene	ND	5.5

Surrogate	%REC	Limits
Dibromofluoromethane	121	63-133
1,2-Dichloroethane-d4	124	76-127
Toluene-d8	101	80-111
Bromofluorobenzene	114	77-126

Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	PB9-6	Diln Fac:	0.9434
Lab ID:	154352-010	Batch#:	66783
Matrix:	Soil	Sampled:	09/24/01
Units:	ug/Kg	Received:	09/24/01
Basis:	dry	Analyzed:	10/01/01

Moisture: 17%

Analyte	Result	RL
Freon 12	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5.7
Acetone	ND	23
Freon 113	ND	5.7
1,1-Dichloroethene	ND	5.7
Methylene Chloride	ND	23
Carbon Disulfide	ND	5.7
MTBE	ND	5.7
trans-1,2-Dichloroethene	ND	5.7
Vinyl Acetate	ND	57
1,1-Dichloroethane	ND	5.7
2-Butanone	ND	11
cis-1,2-Dichloroethene	ND	5.7
2,2-Dichloropropane	ND	5.7
Chloroform	ND	5.7
Bromochloromethane	ND	5.7
1,1,1-Trichloroethane	ND	5.7
1,1-Dichloropropene	ND	5.7
Carbon Tetrachloride	ND	5.7
1,2-Dichloroethane	ND	5.7
Benzene	ND	5.7
Trichloroethene	ND	5.7
1,2-Dichloropropane	ND	5.7
Bromodichloromethane	ND	5.7
Dibromomethane	ND	5.7
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.7
Toluene	ND	5.7
trans-1,3-Dichloropropene	ND	5.7
1,1,2-Trichloroethane	ND	5.7
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.7
Tetrachloroethene	ND	5.7
Dibromochloromethane	ND	5.7
1,2-Dibromoethane	ND	5.7
Chlorobenzene	ND	5.7
1,1,1,2-Tetrachloroethane	ND	5.7
Ethylbenzene	ND	5.7
m,p-Xylenes	ND	5.7
o-Xylene	ND	5.7
Styrene	ND	5.7
Bromoform	ND	5.7
Isopropylbenzene	ND	5.7
1,1,2,2-Tetrachloroethane	ND	5.7
1,2,3-Trichloropropane	ND	5.7
Propylbenzene	ND	5.7
Bromobenzene	ND	5.7
1,3,5-Trimethylbenzene	ND	5.7
2-Chlorotoluene	ND	5.7

 ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030E
Project#:	510996706700	Analysis:	EPA 8260E
Field ID:	PB9-6	Diln Fac:	0.9434
Lab ID:	154352-010	Batch#:	66783
Matrix:	Soil	Sampled:	09/24/01
Units:	ug/Kg	Received:	09/24/01
Basis:	dry	Analyzed:	10/01/01

Analyte	Result	RL
4-Chlorotoluene	ND	5.7
tert-Butylbenzene	ND	5.7
1,2,4-Trimethylbenzene	ND	5.7
sec-Butylbenzene	ND	5.7
para-Isopropyl Toluene	ND	5.7
1,3-Dichlorobenzene	ND	5.7
1,4-Dichlorobenzene	ND	5.7
n-Butylbenzene	ND	5.7
1,2-Dichlorobenzene	ND	5.7
1,2-Dibromo-3-Chloropropane	ND	5.7
1,2,4-Trichlorobenzene	ND	5.7
Hexachlorobutadiene	ND	5.7
Naphthalene	ND	5.7
1,2,3-Trichlorobenzene	ND	5.7

Surrogate	%RRC	Limits
Dibromofluoromethane	119	63-133
1,2-Dichloroethane-d4	123	76-127
Toluene-d8	101	80-111
Bromofluorobenzene	110	77-126

Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	PB10-8	Diln Fac:	1.000
Lab ID:	154352-012	Batch#:	66902
Matrix:	Soil	Sampled:	09/24/01
Units:	ug/Kg	Received:	09/24/01
Basis:	dry	Analyzed:	10/05/01

Moisture: 20%

Analyte	Result	RL
Freon 12	ND	13
Chloromethane	ND	13
Vinyl Chloride	ND	13
Bromomethane	ND	13
Chloroethane	ND	13
Trichlorofluoromethane	ND	6.3
Acetone	ND	25
Freon 113	ND	6.3
1,1-Dichloroethene	ND	6.3
Methylene Chloride	ND	25
Carbon Disulfide	ND	6.3
MTBE	ND	6.3
trans-1,2-Dichloroethene	ND	6.3
Vinyl Acetate	ND	63
1,1-Dichloroethane	ND	6.3
2-Butanone	ND	13
cis-1,2-Dichloroethene	ND	6.3
2,2-Dichloropropane	ND	6.3
Chloroform	ND	6.3
Bromochloromethane	ND	6.3
1,1,1-Trichloroethane	ND	6.3
1,1-Dichloropropene	ND	6.3
Carbon Tetrachloride	ND	6.3
1,2-Dichloroethane	ND	6.3
Benzene	ND	6.3
Trichloroethene	ND	6.3
1,2-Dichloropropane	ND	6.3
Bromodichloromethane	ND	6.3
Dibromomethane	ND	6.3
4-Methyl-2-Pentanone	ND	13
cis-1,3-Dichloropropene	ND	6.3
Toluene	ND	6.3
trans-1,3-Dichloropropene	ND	6.3
1,1,2-Trichloroethane	ND	6.3
2-Hexanone	ND	13
1,3-Dichloropropane	ND	6.3
Tetrachloroethene	ND	6.3
Dibromochloromethane	ND	6.3
1,2-Dibromoethane	ND	6.3
Chlorobenzene	ND	6.3
1,1,1,2-Tetrachloroethane	ND	6.3
Ethylbenzene	ND	6.3
m,p-Xylenes	ND	6.3
o-Xylene	ND	6.3
Styrene	ND	6.3
Bromoform	ND	6.3
Isopropylbenzene	ND	6.3
1,1,2,2-Tetrachloroethane	ND	6.3
1,2,3-Trichloropropane	ND	6.3
Propylbenzene	ND	6.3
Bromobenzene	ND	6.3
1,3,5-Trimethylbenzene	ND	6.3
2-Chlorotoluene	ND	6.3

 ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	PB10-8	Diln Fac:	1.000
Lab ID:	154352-012	Batch#:	66902
Matrix:	Soil	Sampled:	09/24/01
Units:	ug/Kg	Received:	09/24/01
Basis:	dry	Analyzed:	10/05/01

Analyte	Result	RL
4-Chlorotoluene	ND	6.3
tert-Butylbenzene	ND	6.3
1,2,4-Trimethylbenzene	ND	6.3
sec-Butylbenzene	ND	6.3
para-Isopropyl Toluene	ND	6.3
1,3-Dichlorobenzene	ND	6.3
1,4-Dichlorobenzene	ND	6.3
n-Butylbenzene	ND	6.3
1,2-Dichlorobenzene	ND	6.3
1,2-Dibromo-3-Chloropropane	ND	6.3
1,2,4-Trichlorobenzene	ND	6.3
Hexachlorobutadiene	ND	6.3
Naphthalene	ND	6.3
1,2,3-Trichlorobenzene	ND	6.3

Surrogate	%REC	Limits
Dibromofluoromethane	105	63-133
1,2-Dichloroethane-d4	104	76-127
Toluene-d8	102	80-111
Bromofluorobenzene	101	77-126

Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	PB11-8	Diln Fac:	1.020
Lab ID:	154352-013	Batch#:	66902
Matrix:	Soil	Sampled:	09/24/01
Units:	ug/Kg	Received:	09/24/01
Basis:	dry	Analyzed:	10/05/01

Moisture: 18%

Analyte	Result	RL
Freon 12	ND	12
Chloromethane	ND	12
Vinyl Chloride	ND	12
Bromomethane	ND	12
Chloroethane	ND	12
Trichlorofluoromethane	ND	6.2
Acetone	ND	25
Freon 113	ND	6.2
1,1-Dichloroethene	ND	6.2
Methylene Chloride	ND	25
Carbon Disulfide	ND	6.2
MTBE	ND	6.2
trans-1,2-Dichloroethene	ND	6.2
Vinyl Acetate	ND	62
1,1-Dichloroethane	ND	6.2
2-Butanone	ND	6.2
cis-1,2-Dichloroethene	ND	12
2,2-Dichloropropane	ND	6.2
Chloroform	ND	6.2
Bromochloromethane	ND	6.2
1,1,1-Trichloroethane	ND	6.2
1,1-Dichloropropene	ND	6.2
Carbon Tetrachloride	ND	6.2
1,2-Dichloroethane	ND	6.2
Benzene	ND	6.2
Trichloroethene	ND	6.2
1,2-Dichloropropane	ND	6.2
Bromodichloromethane	ND	6.2
Dibromomethane	ND	6.2
4-Methyl-2-Pentanone	ND	6.2
cis-1,3-Dichloropropene	ND	12
Toluene	ND	6.2
trans-1,3-Dichloropropene	ND	6.2
1,1,2-Trichloroethane	ND	6.2
2-Hexanone	ND	6.2
1,3-Dichloropropane	ND	12
Tetrachloroethene	ND	6.2
Dibromochloromethane	ND	6.2
1,2-Dibromoethane	ND	6.2
Chlorobenzene	ND	6.2
1,1,1,2-Tetrachloroethane	ND	6.2
Ethylbenzene	ND	6.2
m,p-Xylenes	ND	6.2
o-Xylene	ND	6.2
Styrene	ND	6.2
Bromoform	ND	6.2
Isopropylbenzene	ND	6.2
1,1,2,2-Tetrachloroethane	ND	6.2
1,2,3-Trichloropropane	ND	6.2
Propylbenzene	ND	6.2
Bromobenzene	ND	6.2
1,3,5-Trimethylbenzene	ND	6.2
2-Chlorotoluene	ND	6.2

 ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS			
Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	PB11-8	Diln Fac:	1.020
Lab ID:	154352-013	Batch#:	66902
Matrix:	Soil	Sampled:	09/24/01
Units:	ug/Kg	Received:	09/24/01
Basis:	dry	Analyzed:	10/05/01

Analyte	Result	RL
4-Chlorotoluene	ND	6.2
tert-Butylbenzene	ND	6.2
1,2,4-Trimethylbenzene	ND	6.2
sec-Butylbenzene	ND	6.2
para-Isopropyl Toluene	ND	6.2
1,3-Dichlorobenzene	ND	6.2
1,4-Dichlorobenzene	ND	6.2
n-Butylbenzene	ND	6.2
1,2-Dichlorobenzene	ND	6.2
1,2-Dibromo-3-Chloropropane	ND	6.2
1,2,4-Trichlorobenzene	ND	6.2
Hexachlorobutadiene	ND	6.2
Naphthalene	ND	6.2
1,2,3-Trichlorobenzene	ND	6.2

Surrogate	%REC	Limits
Dibromofluoromethane	103	63-133
1,2-Dichloroethane-d4	106	76-127
Toluene-d8	101	80-111
Bromofluorobenzene	100	77-126



Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC157500	Diln Fac:	1.000
Matrix:	Soil	Batch#:	66783
Units:	ug/Kg	Analyzed:	10/01/01

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC157500	Diln Fac:	1.000
Matrix:	Soil	Batch#:	66783
Units:	ug/Kg	Analyzed:	10/01/01

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
i,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	IREC	Limits
Dibromofluoromethane	113	63-133
1,2-Dichloroethane-d4	116	76-127
Toluene-d8	97	80-111
Bromofluorobenzene	115	77-126

Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC157976	Diln Fac:	1.000
Matrix:	Soil	Batch#:	66902
Units:	ug/Kg	Analyzed:	10/05/01

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC157976	Diln Fac:	1.000
Matrix:	Soil	Batch#:	66902
Units:	ug/Kg	Analyzed:	10/05/01

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	101	63-133
1,2-Dichloroethane-d4	102	76-127
Toluene-d8	101	80-111
Bromofluorobenzene	101	77-126

Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC158045	Diln Fac:	1.000
Matrix:	Soil	Batch#:	66902
Units:	ug/Kg	Analyzed:	10/05/01

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC158045	Diln Fac:	1.000
Matrix:	Soil	Batch#:	66902
Units:	ug/Kg	Analyzed:	10/05/01

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	96	63-133
1,2-Dichloroethane-d4	104	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	100	77-126

Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC157499	Diln Fac:	1.000
Matrix:	Soil	Batch#:	66783
Units:	ug/Kg	Analyzed:	10/01/01

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	40.40	81	66-138
Benzene	50.00	40.38	81	76-121
Trichloroethene	50.00	42.20	84	75-124
Toluene	50.00	40.81	82	75-124
Chlorobenzene	50.00	42.29	85	78-115

Surrogate	%REC	Limits
Dibromofluoromethane	108	63-133
1,2-Dichloroethane-d4	109	76-127
Toluene-d8	98	80-111
Bromofluorobenzene	101	77-126

Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC157975	Diln Fac:	1.000
Matrix:	Soil	Batch#:	66902
Units:	ug/Kg	Analyzed:	10/05/01

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	51.13	102	66-138
Benzene	50.00	51.29	103	76-121
Trichloroethene	50.00	52.21	104	75-124
Toluene	50.00	52.73	105	75-124
Chlorobenzene	50.00	51.17	102	78-115

Surrogate	%REC	Limits
Dibromofluoromethane	104	63-133
1,2-Dichloroethane-d4	106	76-127
Toluene-d8	102	80-111
Bromofluorobenzene	100	77-126

Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	0.9804
MSS Lab ID:	154311-010	Batch#:	66783
Matrix:	Soil	Sampled:	09/21/01
Units:	ug/Kg	Received:	09/21/01
Basis:	as received	Analyzed:	10/03/01

Type: MS Lab ID: QC157518

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.3000	49.02	50.69	103	42-145
Benzene	<0.2600	49.02	42.65	87	50-133
Trichloroethene	<0.2900	49.02	71.92	147 *	33-133
Toluene	<0.3100	49.02	40.14	82	45-134
Chlorobenzene	<0.2300	49.02	36.63	75	38-137

Surrogate	%REC	Limits
Dibromofluoromethane	97	63-133
1,2-Dichloroethane-d4	101	76-127
Toluene-d8	98	80-111
Bromofluorobenzene	91	77-126

Type: MSD Lab ID: QC157519

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	49.02	48.84	100	42-145	4	31
Benzene	49.02	41.14	84	50-133	4	29
Trichloroethene	49.02	69.35	141 *	33-133	4	30
Toluene	49.02	38.83	79	45-134	3	29
Chlorobenzene	49.02	35.24	72	38-137	4	31

Surrogate	%REC	Limits
Dibromofluoromethane	96	63-133
1,2-Dichloroethane-d4	101	76-127
Toluene-d8	99	80-111
Bromofluorobenzene	93	77-126

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.020
MSS Lab ID:	154346-001	Batch#:	66902
Matrix:	Soil	Sampled:	09/24/01
Units:	ug/Kg	Received:	09/24/01
Basis:	as received	Analyzed:	10/06/01

Type: MS Lab ID: QC158052

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.2000	51.02	47.88	94	42-145
Benzene	<0.2200	51.02	45.16	89	50-133
Trichloroethene	<0.2100	51.02	45.01	88	33-133
Toluene	0.4817	51.02	45.62	88	45-134
Chlorobenzene	<0.3000	51.02	38.00	74	38-137

Surrogate	%REC	Limits
Dibromofluoromethane	105	63-133
1,2-Dichloroethane-d4	106	76-127
Toluene-d8	104	80-111
Bromofluorobenzene	104	77-126

Type: MSD Lab ID: QC158053

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	51.02	46.48	91	42-145	3	31
Benzene	51.02	44.07	86	50-133	2	29
Trichloroethene	51.02	43.44	85	33-133	4	30
Toluene	51.02	44.48	86	45-134	3	29
Chlorobenzene	51.02	35.99	71	38-137	5	31

Surrogate	%REC	Limits
Dibromofluoromethane	104	63-133
1,2-Dichloroethane-d4	105	76-127
Toluene-d8	104	80-111
Bromofluorobenzene	106	77-126

California Title 26 Metals

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700		
Field ID:	PB10	Diln Fac:	1.000
Lab ID:	154352-001	Sampled:	09/24/01
Matrix:	Filtrate	Received:	09/24/01
Units:	ug/L	Prepared:	09/25/01

Analyte	Result	RL	Batch#	Analyzed	Analysis
Antimony	ND	60	66649	09/26/01	EPA 6010B
Arsenic	ND	5.0	66649	09/26/01	EPA 6010B
Barium	67	10	66649	09/26/01	EPA 6010B
Beryllium	ND	2.0	66649	09/26/01	EPA 6010B
Cadmium	ND	5.0	66649	09/26/01	EPA 6010B
Chromium	ND	10	66649	09/26/01	EPA 6010B
Cobalt	26	20	66649	09/26/01	EPA 6010B
Copper	30	10	66649	09/26/01	EPA 6010B
Lead	3.9	3.0	66649	09/26/01	EPA 6010B
Mercury	0.48	0.20	66636	09/25/01	EPA 7470A
Molybdenum	ND	20	66649	09/26/01	EPA 6010B
Nickel	120	20	66649	09/26/01	EPA 6010B
Selenium	7.0	5.0	66649	09/26/01	EPA 6010B
Silver	ND	5.0	66649	09/26/01	EPA 6010B
Thallium	14	5.0	66649	09/26/01	EPA 6010B
Vanadium	ND	10	66649	09/26/01	EPA 6010B
Zinc	270	20	66649	09/26/01	EPA 6010B

California Title 26 Metals

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700		
Field ID:	PB8	Diln Fac:	1.000
Lab ID:	154352-003	Sampled:	09/24/01
Matrix:	Filtrate	Received:	09/24/01
Units:	ug/L	Prepared:	09/25/01

Analyte	Result	RL	Batch#	Analyzed	Analysis
Antimony	ND	60	66649	09/26/01	EPA 6010B
Arsenic	ND	5.0	66649	09/26/01	EPA 6010B
Barium	15	10	66649	09/26/01	EPA 6010B
Beryllium	ND	2.0	66649	09/26/01	EPA 6010B
Cadmium	ND	5.0	66649	09/26/01	EPA 6010B
Chromium	ND	10	66649	09/26/01	EPA 6010B
Cobalt	ND	20	66649	09/26/01	EPA 6010B
Copper	ND	10	66649	09/26/01	EPA 6010B
Lead	ND	3.0	66649	09/26/01	EPA 6010B
Mercury	0.31	0.20	66636	09/25/01	EPA 7470A
Molybdenum	ND	20	66649	09/26/01	EPA 6010B
Nickel	ND	20	66649	09/26/01	EPA 6010B
Selenium	ND	5.0	66649	09/26/01	EPA 6010B
Silver	ND	5.0	66649	09/26/01	EPA 6010B
Thallium	ND	5.0	66649	09/26/01	EPA 6010B
Vanadium	ND	10	66649	09/26/01	EPA 6010B
Zinc	ND	20	66649	09/26/01	EPA 6010B

California Title 26 Metals			
Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	66636
Lab ID:	QC156955	Prepared:	09/25/01
Matrix:	Water	Analyzed:	09/25/01
Units:	ug/L		
Result	RL		
ND	0.20		

California Title 26 Metals

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	66636
Lab ID:	QC156962	Prepared:	09/25/01
Matrix:	WET Leachate	Analyzed:	09/25/01
Units:	ug/L		

Result	RL
ND	1.0

California Title 26 Metals

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC157013	Batch#:	66649
Matrix:	Filtrate	Prepared:	09/25/01
Units:	ug/L	Analyzed:	09/26/01

Analyte	Result	RL
Antimony	ND	60
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	ND	5.0
Chromium	ND	10
Cobalt	ND	20
Copper	ND	10
Lead	ND	3.0
Molybdenum	ND	20
Nickel	ND	20
Selenium	ND	5.0
Silver	ND	5.0
Thallium	ND	5.0
Vanadium	ND	10
Zinc	ND	20

California Title 26 Metals			
Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	66636
Matrix:	Water	Prepared:	09/25/01
Units:	ug/L	Analyzed:	09/25/01
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC156956	5.000	5.468	109	80-116		
BSD	QC156957	5.000	5.672	113	80-116	4	20

California Title 26 Metals

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	66636
Field ID:	ZZZZZZZZZZ	Sampled:	09/21/01
MSS Lab ID:	154334-001	Received:	09/21/01
Matrix:	Water	Prepared:	09/25/01
Units:	ug/L	Analyzed:	09/25/01
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	#REC	Limits	RPD	Lim
MS	QC156958	0.1185	5.000	5.785	113	80-114		
MSD	QC156959		5.000	5.848	115 *	80-114	1	22

California Title 26 Metals			
Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	PB10	Batch#:	66636
Type:	SDUP	Sampled:	09/24/01
MSS Lab ID:	154352-001	Received:	09/24/01
Lab ID:	QC156960	Prepared:	09/25/01
Matrix:	Water	Analyzed:	09/25/01
Units:	ug/L		

MSS Result	Result	RL	RPD	Lim
0.4754	0.6440	0.20	30	* 22

*= Value outside of QC limits; see narrative
 RL= Reporting Limit
 RPD= Relative Percent Difference
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California Title 26 Metals				
Lab #:	154352	Location:	UCB-Richmond Field Sta.	
Client:	URS Corporation	Prep:	METHOD	
Project#:	510996706700	Analysis:	EPA 7470A	
Analyte:	Mercury	Diln Fac:	1.000	
Field ID:	PB10	Batch#:	66636	
Type:	MS	Sampled:	09/24/01	
MSS Lab ID:	154352-001	Received:	09/24/01	
Lab ID:	QC156961	Prepared:	09/25/01	
Matrix:	Water	Analyzed:	09/25/01	
Units:	ug/L			

MSS Result	Spiked	Result	%REC	Limits
0.4754	5.000	6.130	113	80-114

California Title 26 Metals			
Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 6010B
Matrix:	Filtrate	Batch#:	66649
Units:	ug/L	Prepared:	09/25/01
Diln Fac:	1.000	Analyzed:	09/26/01

Type: BS Lab ID: QC157014

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	440.0	88	75-123
Arsenic	100.0	94.90	95	80-120
Barium	2,000	1,790	90	80-116
Beryllium	50.00	47.50	95	80-116
Cadmium	50.00	45.60	91	80-126
Chromium	200.0	185.0	93	80-113
Cobalt	500.0	456.0	91	80-112
Copper	250.0	225.0	90	80-114
Lead	100.0	93.00	93	78-120
Molybdenum	400.0	368.0	92	80-114
Nickel	500.0	464.0	93	80-116
Selenium	100.0	91.80	92	79-120
Silver	50.00	46.80	94	80-120
Thallium	100.0	97.90	98	80-119
Vanadium	500.0	466.0	93	80-111
Zinc	500.0	471.0	94	72-126

Type: BSD Lab ID: QC157015

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	432.0	86	75-123	2	21
Arsenic	100.0	100.0	100	80-120	5	20
Barium	2,000	1,790	90	80-116	0	21
Beryllium	50.00	46.50	93	80-116	2	20
Cadmium	50.00	44.90	90	80-126	2	20
Chromium	200.0	180.0	90	80-113	3	21
Cobalt	500.0	443.0	89	80-112	3	25
Copper	250.0	222.0	89	80-114	1	24
Lead	100.0	89.70	90	78-120	4	20
Molybdenum	400.0	362.0	91	80-114	2	22
Nickel	500.0	455.0	91	80-116	2	23
Selenium	100.0	93.00	93	79-120	1	20
Silver	50.00	46.00	92	80-120	2	26
Thallium	100.0	95.60	96	80-119	2	20
Vanadium	500.0	457.0	91	80-111	2	20
Zinc	500.0	464.0	93	72-126	1	26

California Title 26 Metals

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SDUP	Batch#:	66649
MSS Lab ID:	154284-002	Sampled:	09/20/01
Lab ID:	QC157016	Received:	09/20/01
Matrix:	Filtrate	Prepared:	09/25/01
Units:	ug/L	Analyzed:	09/26/01

Analyte	MSS Result	Result	RL	RPD	Lim
Antimony	<60.00	426.0	60	NC	29
Arsenic	<5.000	97.60	5.0	NC	42
Barium	75.60	1,840	10	184 *	20
Beryllium	<2.000	46.60	2.0	NC	20
Cadmium	<5.000	43.90	5.0	NC	25
Chromium	<10.00	179.0	10	NC	20
Cobalt	<20.00	437.0	20	NC	20
Copper	<10.00	223.0	10	NC	20
Lead	<3.000	91.40	3.0	NC	29
Molybdenum	<20.00	378.0	20	NC	20
Nickel	<20.00	441.0	20	NC	20
Selenium	11.20	103.0	5.0	161 *	40
Silver	<5.000	29.20	5.0	NC	30
Thallium	<5.000	78.40	5.0	NC	41
Vanadium	<10.00	459.0	10	NC	41
Zinc	<20.00	467.0	20	NC	33

*= Value outside of QC limits; see narrative

NC= Not Calculated

RL= Reporting Limit

RPD= Relative Percent Difference

California Title 26 Metals			
Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SSPIKE	Batch#:	66649
MSS Lab ID:	154284-002	Sampled:	09/20/01
Lab ID:	QC157017	Received:	09/20/01
Matrix:	Filtrate	Prepared:	09/25/01
Units:	ug/L	Analyzed:	09/26/01

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	29.20	500.0	436.0	81	64-128
Arsenic	<3.600	100.0	98.60	99	65-131
Barium	75.60	2,000	1,820	87	75-120
Beryllium	0.4410	50.00	46.60	92	71-124
Cadmium	<0.4000	50.00	43.60	87	70-127
Chromium	<1.100	200.0	178.0	89	70-124
Cobalt	2.080	500.0	434.0	86	73-122
Copper	<0.6200	250.0	220.0	88	74-122
Lead	<1.000	100.0	89.50	90	66-128
Molybdenum	9.330	400.0	379.0	92	72-122
Nickel	<2.600	500.0	438.0	88	70-126
Selenium	11.20	100.0	105.0	94	65-132
Silver	<0.6200	50.00	30.50	61 *	72-125
Thallium	<4.100	100.0	68.10	68	58-134
Vanadium	2.210	500.0	459.0	91	58-134
Zinc	5.620	500.0	466.0	92	69-129

California Title 26 Metals

Lab #:	154352	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	A-4-2-4	Basis:	dry
Lab ID:	154352-006	Sampled:	09/21/01
Matrix:	Soil	Received:	09/24/01
Units:	mg/Kg	Analyzed:	09/27/01

Moisture: 38%

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Prep	Analysis
Antimony	ND UJ	4.8	1.000	66644	09/25/01	EPA 3050	EPA 6010B
Arsenic	150	0.40	1.000	66644	09/25/01	EPA 3050	EPA 6010B
Barium	130	0.79	1.000	66644	09/25/01	EPA 3050	EPA 6010B
Beryllium	0.21	0.16	1.000	66644	09/25/01	EPA 3050	EPA 6010B
Cadmium	8.3	0.40	1.000	66644	09/25/01	EPA 3050	EPA 6010B
Chromium	32	0.79	1.000	66644	09/25/01	EPA 3050	EPA 6010B
Cobalt	8.3	1.6	1.000	66644	09/25/01	EPA 3050	EPA 6010B
Copper	1,900	16	20.00	66644	09/25/01	EPA 3050	EPA 6010B
Lead	180	0.24	1.000	66644	09/25/01	EPA 3050	EPA 6010B
Mercury	85	4.3	67.50	66724	09/27/01	METHOD	EPA 7471
Molybdenum	5.7	1.6	1.000	66644	09/25/01	EPA 3050	EPA 6010B
Nickel	47	1.6	1.000	66644	09/25/01	EPA 3050	EPA 6010B
Selenium	2.2	0.40	1.000	66644	09/25/01	EPA 3050	EPA 6010B
Silver	2.3	0.40	1.000	66644	09/25/01	EPA 3050	EPA 6010B
Thallium	ND	0.40	1.000	66644	09/25/01	EPA 3050	EPA 6010B
Vanadium	31	0.79	1.000	66644	09/25/01	EPA 3050	EPA 6010B
Zinc	2,000	32	20.00	66644	09/25/01	EPA 3050	EPA 6010B

California Title 26 Metals

Lab #:	154352	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	PB6-7.3	Basis:	dry
Lab ID:	154352-007	Diln Fac:	1.000
Matrix:	Soil	Sampled:	09/24/01
Units:	mg/Kg	Received:	09/24/01

Moisture: 16%

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	3.1	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Arsenic	4.4	0.26	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Barium	120	0.52	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Beryllium	0.32	0.10	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Cadmium	1.6	0.26	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Chromium	41	0.52	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Cobalt	7.6	1.0	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Copper	19	0.52	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Lead	4.0	0.15	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Mercury	0.084	0.039	66683	09/26/01	09/26/01	METHOD	EPA 7471
Molybdenum	ND	1.0	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Nickel	52	1.0	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Selenium	ND	0.26	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Silver	ND	0.26	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Thallium	ND	0.26	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Vanadium	22	0.52	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Zinc	44	1.0	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B

California Title 26 Metals

Lab #:	154352	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	PB7-9	Basis:	dry
Lab ID:	154352-008	Diln Fac:	1.000
Matrix:	Soil	Sampled:	09/24/01
Units:	mg/Kg	Received:	09/24/01

Moisture: 10%

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.5	3.1	66644	09/25/01	09/27/01	EPA 3050 EPA 6010B
Arsenic	4.6	0.26	0.26	66644	09/25/01	09/27/01	EPA 3050 EPA 6010B
Barium	92	0.51	0.51	66644	09/25/01	09/27/01	EPA 3050 EPA 6010B
Beryllium	0.27	0.10	0.10	66644	09/25/01	09/27/01	EPA 3050 EPA 6010B
Cadmium	2.0	0.26	0.26	66644	09/25/01	09/27/01	EPA 3050 EPA 6010B
Chromium	67	0.51	0.51	66644	09/25/01	09/27/01	EPA 3050 EPA 6010B
Cobalt	6.9	1.0	1.0	66644	09/25/01	09/27/01	EPA 3050 EPA 6010B
Copper	16	0.51	0.51	66644	09/25/01	09/27/01	EPA 3050 EPA 6010B
Lead	2.5	0.15	0.15	66644	09/25/01	09/27/01	EPA 3050 EPA 6010B
Mercury	ND	0.042	0.042	66683	09/26/01	09/26/01	METHOD EPA 7471
Molybdenum	ND	1.0	1.0	66644	09/25/01	09/27/01	EPA 3050 EPA 6010B
Nickel	40	1.0	1.0	66644	09/25/01	09/27/01	EPA 3050 EPA 6010B
Selenium	ND	0.26	0.26	66644	09/25/01	09/27/01	EPA 3050 EPA 6010B
Silver	ND	0.26	0.26	66644	09/25/01	09/27/01	EPA 3050 EPA 6010B
Thallium	ND	0.26	0.26	66644	09/25/01	09/27/01	EPA 3050 EPA 6010B
Vanadium	36	0.51	0.51	66644	09/25/01	09/27/01	EPA 3050 EPA 6010B
Zinc	36	1.0	1.0	66644	09/25/01	09/27/01	EPA 3050 EPA 6010B

California Title 26 Metals

Lab #:	154352	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	PB8-6.5	Basis:	dry
Lab ID:	154352-009	Diln Fac:	1.000
Matrix:	Soil	Sampled:	09/24/01
Units:	mg/Kg	Received:	09/24/01

Moisture: 16%

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	3.4	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Arsenic	4.9	0.28	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Barium	200	0.56	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Beryllium	0.34	0.11	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Cadmium	1.9	0.28	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Chromium	33	0.56	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Cobalt	7.0	1.1	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Copper	19	0.56	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Lead	4.9	0.17	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Mercury	ND	0.040	66683	09/26/01	09/26/01	METHOD	EPA 7471
Molybdenum	ND	1.1	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Nickel	49	1.1	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Selenium	ND	0.28	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Silver	ND	0.28	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Thallium	ND	0.28	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Vanadium	26	0.56	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Zinc	38	1.1	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B

California Title 25 Metals

Lab #:	154352	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	PB9-6	Basis:	dry
Lab ID:	154352-010	Diln Fac:	1.000
Matrix:	Soil	Sampled:	09/24/01
Units:	mg/Kg	Received:	09/24/01

Moisture: 17%

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	3.6	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Arsenic	1.2	0.30	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Barium	100	0.59	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Beryllium	0.44	0.12	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Cadmium	1.1	0.30	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Chromium	30	0.59	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Cobalt	3.8	1.2	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Copper	15	0.59	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Lead	3.5	0.18	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Mercury	0.14	0.044	66683	09/26/01	09/26/01	METHOD	EPA 7471
Molybdenum	ND	1.2	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Nickel	41	1.2	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Selenium	ND	0.30	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Silver	ND	0.30	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Thallium	ND	0.30	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Vanadium	9.4	0.59	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Zinc	29	1.2	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B

California Title 26 Metals

Lab #:	154352	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	PB10-8	Basis:	dry
Lab ID:	154352-012	Sampled:	09/24/01
Matrix:	Soil	Received:	09/24/01
Units:	mg/Kg	Analyzed:	09/27/01

Moisture: 20%

Analyte	Result	RL	DiIn	Fac	Batch#	Prepared	Prep	Analysis
Antimony	ND	3.5	1.000		66644	09/25/01	EPA 3050	EPA 6010B
Arsenic	4.6	0.29	1.000		66644	09/25/01	EPA 3050	EPA 6010B
Barium	79	0.58	1.000		66644	09/25/01	EPA 3050	EPA 6010B
Beryllium	0.54	0.12	1.000		66644	09/25/01	EPA 3050	EPA 6010B
Cadmium	2.0	0.29	1.000		66644	09/25/01	EPA 3050	EPA 6010B
Chromium	51	0.58	1.000		66644	09/25/01	EPA 3050	EPA 6010B
Cobalt	7.4	1.2	1.000		66644	09/25/01	EPA 3050	EPA 6010B
Copper	22	0.58	1.000		66644	09/25/01	EPA 3050	EPA 6010B
Lead	4.8	0.18	1.000		66644	09/25/01	EPA 3050	EPA 6010B
Mercury	18	1.2	27.00		66724	09/27/01	METHOD	EPA 7471
Molybdenum	ND	1.2	1.000		66644	09/25/01	EPA 3050	EPA 6010B
Nickel	61	1.2	1.000		66644	09/25/01	EPA 3050	EPA 6010B
Selenium	ND	0.29	1.000		66644	09/25/01	EPA 3050	EPA 6010B
Silver	ND	0.29	1.000		66644	09/25/01	EPA 3050	EPA 6010B
Thallium	ND	0.29	1.000		66644	09/25/01	EPA 3050	EPA 6010B
Vanadium	27	0.58	1.000		66644	09/25/01	EPA 3050	EPA 6010B
Zinc	43	1.2	1.000		66644	09/25/01	EPA 3050	EPA 6010B

California Title 26 Metals

Lab #:	154352	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	PB11-8	Basis:	dry
Lab ID:	154352-013	Diln Fac:	1.000
Matrix:	Soil	Sampled:	09/24/01
Units:	mg/Kg	Received:	09/24/01

Moisture: 18%

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	3.5	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Arsenic	6.8	0.29	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Barium	170	0.58	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Beryllium	0.47	0.12	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Cadmium	2.0	0.29	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Chromium	48	0.58	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Cobalt	23	1.2	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Copper	24	0.58	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Lead	7.2	0.17	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Mercury	0.11	0.041	66683	09/26/01	09/26/01	METHOD	EPA 7471
Molybdenum	ND	1.2	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Nickel	66	1.2	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Selenium	ND	0.29	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Silver	ND	0.29	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Thallium	0.95	0.29	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Vanadium	33	0.58	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B
Zinc	42	1.2	66644	09/25/01	09/27/01	EPA 3050	EPA 6010B

California Title 26 Metals

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 3050
Project#:	510996706700	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC156995	Batch#:	66644
Matrix:	Soil	Prepared:	09/25/01
Units:	mg/Kg	Analyzed:	09/27/01
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Arsenic	ND	0.25
Barium	ND	0.50
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Cobalt	ND	1.0
Copper	ND	0.50
Lead	ND	0.15
Molybdenum	ND	1.0
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	ND	0.50
Zinc	ND	1.0



California Title 26 Metals			
Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC157116	Batch#:	66683
Matrix:	Soil	Prepared:	09/26/01
Units:	mg/Kg	Analyzed:	09/26/01

Result	RL
ND	0.040

California Title 26 Metals

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC157277	Batch#:	66724
Matrix:	Soil	Prepared:	09/27/01
Units:	mg/Kg	Analyzed:	09/27/01

Result	RL
ND	0.040

California Title 26 Metals

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 3050
Project#:	510996706700	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	66644
Units:	mg/Kg	Prepared:	09/25/01
Basis:	as received	Analyzed:	09/27/01
Diln Fac:	1.000		

Type: BS Lab ID: QC156996

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	86.00	86	60-129
Arsenic	50.00	44.65	89	64-116
Barium	100.0	88.00	88	69-111
Beryllium	2.500	2.300	92	70-114
Cadmium	10.00	8.550	86	59-114
Chromium	100.0	89.00	89	68-111
Cobalt	25.00	21.60	86	66-110
Copper	12.50	11.65	93	67-114
Lead	100.0	85.50	86	66-110
Molybdenum	20.00	17.50	88	70-111
Nickel	25.00	22.60	90	68-111
Selenium	50.00	40.95	82	61-110
Silver	10.00	8.800	88	57-116
Thallium	50.00	43.00	86	60-111
Vanadium	25.00	22.45	90	69-112
Zinc	25.00	23.00	92	57-119

Type: BSD Lab ID: QC156997

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	81.00	81	60-129	6	20
Arsenic	50.00	41.85	84	64-116	6	20
Barium	100.0	83.50	84	69-111	5	20
Beryllium	2.500	2.145	86	70-114	7	20
Cadmium	10.00	8.000	80	59-114	7	20
Chromium	100.0	83.50	84	68-111	6	20
Cobalt	25.00	20.30	81	66-110	6	20
Copper	12.50	10.95	88	67-114	6	20
Lead	100.0	81.00	81	66-110	5	20
Molybdenum	20.00	16.55	83	70-111	6	20
Nickel	25.00	21.05	84	68-111	7	20
Selenium	50.00	38.60	77	61-110	6	20
Silver	10.00	8.400	84	57-116	5	20
Thallium	50.00	40.45	81	60-111	6	20
Vanadium	25.00	21.10	84	69-112	6	20
Zinc	25.00	21.85	87	57-119	5	20

California Title 26 Metals

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	66683
Units:	mg/Kg	Prepared:	09/26/01
Basis:	as received	Analyzed:	09/26/01

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lin
BS	QC157117	1.000	0.9955	100	80-114		
BSD	QC157118	1.000	1.001	100	80-114	1	130

California Title 26 Metals				
Lab #:	154352	Location:	UCB-Richmond Field Sta.	
Client:	URS Corporation	Prep:	METHOD	
Project#:	510996706700	Analysis:	EPA 7471	
Analyte:	Mercury	Basis:	as received	
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000	
Type:	SDUP	Batch#:	66683	
MSS Lab ID:	154330-001	Sampled:	09/21/01	
Lab ID:	QC157119	Received:	09/21/01	
Matrix:	Soil	Prepared:	09/26/01	
Units:	mg/Kg	Analyzed:	09/26/01	
MSS Result	Result	RL	RPD	Lim
0.1184	0.1469	0.037	21	35

California Title 26 Metals				
Lab #:	154352	Location:	UCB-Richmond Field Sta.	
Client:	URS Corporation	Prep:	METHOD	
Project#:	510996706700	Analysis:	EPA 7471	
Analyte:	Mercury	Basis:	as received	
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000	
Type:	MS	Batch#:	66683	
MSS Lab ID:	154330-001	Sampled:	09/21/01	
Lab ID:	QC157120	Received:	09/21/01	
Matrix:	Soil	Prepared:	09/26/01	
Units:	mg/Kg	Analyzed:	09/26/01	
MSS Result	Spiked	Result	%REC	Limits
0.1184	0.8621	0.9178	93	62-135

California Title 26 Metals

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	66724
Units:	mg/Kg	Prepared:	09/27/01
Basis:	as received	Analyzed:	09/27/01

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC157278	1.000	1.068	107	80-114		
BSD	QC157279	1.000	1.069	107	80-114	0	130

California Title 26 Metals

Lab #: 154352 Location: UCB-Richmond Field Sta.
 Client: URS Corporation Prep: METHOD
 Project#: 510996706700 Analysis: EPA 7471
 Analyte: Mercury Diln Fac: 1.000
 Field ID: ZZZZZZZZZZ Batch#: 66724
 MSS Lab ID: 154380-002 Sampled: 09/25/01
 Matrix: Soil Received: 09/25/01
 Units: mg/Kg Prepared: 09/27/01
 Basis: as received Analyzed: 09/27/01

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC157280	0.2326	0.9804	1.108	89	62-135		
MSD	QC157281		0.8475	0.9682	87	62-135	2	35

pH				
Lab #:	154352	Location:	UCB-Richmond Field Sta.	
Client:	URS Corporation	Analysis:	EPA 9040B	
Project#:	510996706700			
Analyte:	pH	Units:	SU	
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000	
Type:	SDUP	Batch#:	66665	
MSS Lab ID:	154351-004	Sampled:	09/24/01	
Lab ID:	QC157070	Received:	09/24/01	
Matrix:	Water	Analyzed:	09/24/01	
MSS Result	Result	RL	RPD	Lim
6.860	6.880	1.0	0	20

RL= Reporting Limit

RPD= Relative Percent Difference

pH			
Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Analysis:	EPA 9045C
Project#:	510996706700		
Analyte:	pH	Diln Fac:	1.000
Field ID:	A-4-2-4	Batch#:	66844
Lab ID:	154352-006	Sampled:	09/21/01
Matrix:	Soil	Received:	09/24/01
Units:	SU	Analyzed:	10/01/01
Result	RL		
8.6	1.0		

pH				
Lab #:	154352	Location:	UCB-Richmond Field Sta.	
Client:	URS Corporation	Analysis:	EPA 9045C	
Project#:	510996706700			
Analyte:	pH	Units:	SU	
Field ID:	A-4-2-4	Diln Fac:	1.000	
Type:	SDUP	Batch#:	66844	
MSS Lab ID:	154352-006	Sampled:	09/21/01	
Lab ID:	QC157754	Received:	09/24/01	
Matrix:	Soil	Analyzed:	10/01/01	
MSS Result	Result	RL	RPD	Lim
8.640	6.680	1.0	1	20

RL= Reporting Limit

RPD= Relative Percent Difference

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 Percent Moisture Summary Report

Date: 02-OCT-01
 Batch: 66806
 Analyst: MLT

Sample	Method	Date	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
154352-006	CLP SOW 390	02-OCT-01	15.8849	36.4079	28.6946	62	38
154352-007	CLP SOW 390	02-OCT-01	15.0003	35.1075	31.9007	84	16
154352-008	CLP SOW 390	02-OCT-01	14.9933	35.7777	33.7188	90	10
154352-009	CLP SOW 390	02-OCT-01	15.7955	36.1998	32.8776	84	16
154352-010	CLP SOW 390	02-OCT-01	15.6644	36.7668	33.1929	83	17
154352-012	CLP SOW 390	02-OCT-01	15.3978	36.6242	32.3609	80	20
154352-013	CLP SOW 390	02-OCT-01	15.5042	35.7348	32.0003	82	18
154403-001	CLP SOW 390	02-OCT-01	15.9702	37.5831	36.4643	95	5
154425-002	CLP SOW 390	02-OCT-01	15.263	36.2464	35.1257	95	5
154425-003	CLP SOW 390	02-OCT-01	15.3232	39.5071	38.9359	98	2
154425-004	CLP SOW 390	02-OCT-01	15.9071	37.5723	37.118	98	2
154425-005	CLP SOW 390	02-OCT-01	15.8334	36.0041	35.3724	97	3
154425-006	CLP SOW 390	02-OCT-01	15.9841	36.6805	35.7692	96	4
154425-007	CLP SOW 390	02-OCT-01	15.3159	36.5614	35.5202	95	5
154425-008	CLP SOW 390	02-OCT-01	15.0643	36.7908	35.2448	93	7
154425-009	CLP SOW 390	02-OCT-01	15.9531	37.0666	36.545	98	2
154425-010	CLP SOW 390	02-OCT-01	15.688	41.1165	35.5584	78	22
154470-003	CLP SOW 390	02-OCT-01	15.8769	40.0637	38.7483	95	5
154470-004	CLP SOW 390	02-OCT-01	15.5893	36.1448	33.809	89	11
154470-005	CLP SOW 390	02-OCT-01	15.3394	36.2362	35.0137	94	6
QC157593	CLP SOW 390	02-OCT-01	15.352	38.7552	37.642	95	5
of 154470-005					RPD:	1.2%	20.6%

Purgeable Organics by GC/MS			
Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	66677
Units:	ug/L	Analyzed:	09/26/01
Diln Fac:	1.000		

Type: BS Lab ID: QC157100

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	57.26	115	74-132
Benzene	50.00	52.18	104	80-116
Trichloroethene	50.00	50.09	100	80-119
Toluene	50.00	54.54	109	80-120
Chlorobenzene	50.00	51.80	104	80-117

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-122
1,2-Dichloroethane-d4	93	78-123
Toluene-d8	96	80-110
Bromofluorobenzene	98	80-115

Type: BSD Lab ID: QC157101

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	57.27	115	74-132	0	20
Benzene	50.00	51.69	103	80-116	1	20
Trichloroethene	50.00	49.57	99	80-119	1	20
Toluene	50.00	55.00	110	80-120	1	20
Chlorobenzene	50.00	52.71	105	80-117	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-122
1,2-Dichloroethane-d4	94	78-123
Toluene-d8	100	80-110
Bromofluorobenzene	100	80-115

Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC157569	Batch#:	66801
Matrix:	Water	Analyzed:	10/02/01
Units:	ug/L		

Analyte	Result	RL
1, 2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1, 1, 1, 2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m, p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1, 1, 2, 2-Tetrachloroethane	ND	0.5
1, 2, 3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1, 3, 5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1, 2, 4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1, 3-Dichlorobenzene	ND	0.5
1, 4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1, 2-Dichlorobenzene	ND	0.5
1, 2-Dibromo-3-Chloropropane	ND	0.5
1, 2, 4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1, 2, 3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-122
1, 2-Dichloroethane-d4	102	78-123
Toluene-d8	98	80-110
Bromofluorobenzene	104	80-115



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900


ANALYTICAL REPORT


Prepared for:

URS Corporation
500 12th Street
Suite 200
Oakland, CA 94607

Date: 17-OCT-01
Lab Job Number: 154352
Project ID: 510996706700
Location: UCB-Richmond Field Sta.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: 
Project Manager

Reviewed by: 
Operations Manager

This package may be reproduced only in its entirety.

Laboratory Numbers: **154352**
Client: **URS Corporation**
Location: **UCB-Richmond Field Sta.**
Project ID: **510996706700**

Sampled Date: **09/21&24 /01**
Received Date: **09/24/01**

CASE NARRATIVE

This hardcopy data package contains sample and QC results for eight soil samples and five water samples, which were received from the site referenced above on September 24, 2001. The samples were received cold and intact. One soil sample was placed on hold per the chain of custody. All results have been corrected for moisture.

VOCs (EPA 8260): High Trichloroethene matrix spike recoveries were observed for sample CT# 154311-010. The associated laboratory control sample (LCS) passed all (QC) quality control criteria. No other analytical problems were encountered.

Metals (EPA 6000/7000): For the filtrate samples, high mercury matrix spike duplicate recovery was observed for sample CT# 154334-001. High mercury relative percent difference (RPD) was observed for the sample duplicate of PB10 (CT# 154352-001). High barium and selenium relative percent difference was observed for the sample duplicate of CT# 154284-002. Low silver sample spike recovery was observed for sample CT# 154284-002. The associated blank spike and blank spike duplicate recoveries and (RPDs) passed all criteria.

For the soil samples, copper and zinc matrix spike recoveries are considered not meaningful (NM) as the sample concentrations for these elements are four times greater than the spiked level. Low antimony matrix spike recoveries were observed for sample A-4-2-4 (CT# 154352-006). The blank spike and blank spike duplicate recoveries pass all criteria. No other analytical problems were encountered.

General Chemistry: No analytical problems were encountered.

154352



500 12th Street, Suite 200
Oakland, CA 94607-4014
(510) 893-3600

Chain of Custody Record

PROJECT NO. <u>5109967067-00</u>			ANALYSES								Number of Containers	REMARKS (Sample preservation, handling procedures, etc.)	
DATE	TIME	SAMPLERS: (Signature) <u>Bløpeland</u>	Sample Matrix (Soil, Water, Air)	EPA Method	EPA Method	EPA Method	EPA Method	<u>Can 17 metals</u>	<u>pH</u>	<u>18260</u>			
9/24		PB6-7.3	S					X	X	X		<p>dissolved metal in water PKs filter w/in 24 hrs.</p>	
9/24	1355	PB10	W					X	X	X	4		
	1420	PB9	"							X	4		
	1430	PB8	"					X	X	X	4		
		PB7	"							X	4		
↓	1520	PB6	↓							X	3		
9/21		A4-2-4	S					X	X		1		<p>Results to Bill Opeland (510) 874-3192</p>
9/24		PB6-7.3	↓					X		X	1		
		PB7-9	↓					X		X	1		
		PB8-6.5	↓					X		X	1		
		PB9-6	↓					X		X	1		
		PB9-7	↓					HO	LD		1		
		PB10-8	↓					X		X	1		
↓		PB11-8	↓					X		X	1		

Received On Ice
 Cold Ambient Intact

Preservation Correct?
 Yes No N/A

RELINQUISHED BY: (Signature) <u>Bløpeland</u>		DATE/TIME <u>9/24/01 1600</u>	RECEIVED BY: (Signature) <u>Troy Doherty</u>	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
METHOD OF SHIPMENT:		SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY: (Signature)	DATE/TIME	

TOTAL NUMBER OF CONTAINERS

Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	PB10	Batch#:	66677
Lab ID:	154352-001	Sampled:	09/24/01
Matrix:	Water	Received:	09/24/01
Units:	ug/L	Analyzed:	09/26/01
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	3.4	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	0.7	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	0.9	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	10	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	7.1	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	25	0.5
Benzene	0.6	0.5
Trichloroethene	76	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	14	0.5

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	PB10	Batch#:	66677
Lab ID:	154352-001	Sampled:	09/24/01
Matrix:	Water	Received:	09/24/01
Units:	ug/L	Analyzed:	09/26/01
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	9.8	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	1.4	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-122
1,2-Dichloroethane-d4	101	78-123
Toluene-d8	98	80-110
Bromofluorobenzene	114	80-115

Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	PB9	Batch#:	66801
Lab ID:	154352-002	Sampled:	09/24/01
Matrix:	Water	Received:	09/24/01
Units:	ug/L	Analyzed:	10/02/01
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	2.5	0.5
Benzene	ND	0.5
Trichloroethene	33	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	1.0	0.5

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	PB9	Batch#:	66801
Lab ID:	154352-002	Sampled:	09/24/01
Matrix:	Water	Received:	09/24/01
Units:	ug/L	Analyzed:	10/02/01
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	2.0	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-122
1,2-Dichloroethane-d4	113	78-123
Toluene-d8	100	80-110
Bromofluorobenzene	104	80-115

Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	PB8	Batch#:	66677
Lab ID:	154352-003	Sampled:	09/24/01
Matrix:	Water	Received:	09/24/01
Units:	ug/L	Analyzed:	09/26/01
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	1.1	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	0.8	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	4.1	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	PB8	Batch#:	66677
Lab ID:	154352-003	Sampled:	09/24/01
Matrix:	Water	Received:	09/24/01
Units:	ug/L	Analyzed:	09/26/01
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-122
1,2-Dichloroethane-d4	91	78-123
Toluene-d8	96	80-110
Bromofluorobenzene	115	80-115

Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	PB7	Batch#:	66677
Lab ID:	154352-004	Sampled:	09/24/01
Matrix:	Water	Received:	09/24/01
Units:	ug/L	Analyzed:	09/26/01
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	0.9	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	120	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	PB7	Batch#:	66677
Lab ID:	154352-004	Sampled:	09/24/01
Matrix:	Water	Received:	09/24/01
Units:	ug/L	Analyzed:	09/26/01
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-122
1,2-Dichloroethane-d4	101	78-123
Toluene-d8	100	80-110
Bromofluorobenzene	114	80-115

Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	PB6	Batch#:	66677
Lab ID:	154352-005	Sampled:	09/24/01
Matrix:	Water	Received:	09/24/01
Units:	ug/L	Analyzed:	09/26/01
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	10	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	0.8	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	PB6	Batch#:	66677
Lab ID:	154352-005	Sampled:	09/24/01
Matrix:	Water	Received:	09/24/01
Units:	ug/L	Analyzed:	09/26/01
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	0.8	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-122
1,2-Dichloroethane-d4	103	78-123
Toluene-d8	100	80-110
Bromofluorobenzene	112	80-115

Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC157103	Batch#:	66677
Matrix:	Water	Analyzed:	09/26/01
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC157103	Batch#:	66677
Matrix:	Water	Analyzed:	09/26/01
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-122
1,2-Dichloroethane-d4	101	78-123
Toluene-d8	97	80-110
Bromofluorobenzene	114	80-115

Purgeable Organics by GC/MS			
Lab #:	154352	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC157569	Batch#:	66801
Matrix:	Water	Analyzed:	10/02/01
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

URS Corporation
500 12th Street
Suite 200
Oakland, CA 94607

Date: 23-OCT-01

Lab Job Number: 154673

Project ID: 510996706700

Location: UCB-Richmond Field Sta.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by:


Project Manager

Reviewed by:


Operations Manager

This package may be reproduced only in its entirety.

Laboratory Numbers: **154673**
Client: **URS Corporation**
Location: **UCB-Richmond Field Sta.**
Project ID: **510996706700**

Sampled Date: **10/10/01**
Received Date: **10/10/01**

CASE NARRATIVE

This hardcopy data package contains sample and QC results for fifteen soil samples and seven water samples, which were received from the site referenced above on October 10, 2001. The samples were received cold and intact. Four water samples were placed on hold upon receipt. All results have been corrected for moisture.

Metals (EPA 6000/7000): The matrix spike recovery for zinc is considered not meaningful (NM) as the sample concentration is four times greater than the spiked level. The associated blank spike and blank spike duplicate recoveries passed all criteria. No other analytical problems were encountered.

General Chemistry: No analytical problems were encountered.

154673



500 12th Street, Suite 200
Oakland, CA 94607-4014
(510) 893-3600

Chain of Custody Record

PROJECT NO. <u>510996706700</u>			ANALYSES										Number of Containers	REMARKS (Sample preservation, handling procedures, etc.)	
DATE	TIME	SAMPLE NUMBER	Sample Matrix (Soil, Water, Air)	EPA Method	EPA Method	EPA Method	EPA Method	PP metals	mercury	pH					
10/10/01		1 A4-9-4.5	S					X	X	X				1	
		2 A4-9-8						↓	↓	↓				1	
		3 A4-9-11.5						↓	↓	↓				1	
		4 A4-5-7												1	held
		5 A4-5-10												1	held
		6 A4-12-7.5						X	X	X				1	
		7 A4-12-10												1	
		8 A4-13-7												1	
		9 A4-17-7												1	
		10 A4-17-10												1	
		11 A4-13-9.5												1	
		12 PB12-4												1	
		13 PB12-1												1	
		14 A4-10-4.5												1	
		15 A4-10-10	↓					↓	↓	↓				1	
		16 A4-9B	W					X	X	X				1	
		17 A4-5B												1	held
		18 A4-12B						*						1	held
		19 A4-13B												1	held
		20 A4-17B						X	X	X				1	
		21 PB12 B						X	X	X				1	
		22 A4-10B	↓											1	held

held
held
* dissolved -
pls filter within
24 hrs.

Results to
Bill Copeland
(510) 893-3192

Preservation Correct?
 Yes No N/A

Received On Ice
 Cold Ambient Intact

TOTAL NUMBER OF CONTAINERS: 22

RELINQUISHED BY: (Signature) <i>Copeland</i>	DATE/TIME <i>10/10/01</i>	RECEIVED BY: (Signature) <i>Pat Ryan</i>	DATE/TIME <i>10/10/01</i>	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
METHOD OF SHIPMENT:		SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY: (Signature)	DATE/TIME	

Percent Moisture Summary Report

Date: 16-OCT-01
 Batch: 67117
 Analyst: MLT

Sample	Method	Date	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
154673-001	CLP SOW 390	16-OCT-01	15.6253	21.3136	19.9524	76	24
154673-002	CLP SOW 390	16-OCT-01	15.3022	20.4489	19.3622	79	21
154673-003	CLP SOW 390	16-OCT-01	15.313	20.0277	19.2292	83	17
154673-006	CLP SOW 390	16-OCT-01	15.0344	20.0708	18.7762	74	26
154673-007	CLP SOW 390	16-OCT-01	15.3403	20.4275	19.8131	88	12
154673-008	CLP SOW 390	16-OCT-01	15.8314	21.0714	20.26	85	15
154673-009	CLP SOW 390	16-OCT-01	15.9083	21.384	20.3196	81	19
154673-010	CLP SOW 390	16-OCT-01	15.5093	20.6639	19.7659	83	17
154673-011	CLP SOW 390	16-OCT-01	15.9474	21.08	20.1185	81	19
154673-012	CLP SOW 390	16-OCT-01	15.4109	21.4253	20.8601	91	9
154673-013	CLP SOW 390	16-OCT-01	15.3167	20.3479	19.2669	79	21
154673-014	CLP SOW 390	16-OCT-01	15.4159	21.5825	20.187	77	23
154673-015	CLP SOW 390	16-OCT-01	15.6952	20.6736	19.8397	83	17
QC158839	CLP SOW 390	16-OCT-01	15.4059	21.6644	20.1821	76	24
of 154673-001						RPD: 0.3%	1.0%

Priority Pollutant Metals

Lab #:	154673	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700		
Field ID:	A4-9B	Diln Fac:	1.000
Lab ID:	154673-016	Sampled:	10/10/01
Matrix:	Filtrate	Received:	10/10/01
Units:	ug/L	Analyzed:	10/15/01

Analyte	Result	RL	Batch#	Prepared	Analysis
Antimony	ND	60	67051	10/11/01	EPA 6010B
Arsenic	510	5.0	67051	10/11/01	EPA 6010B
Beryllium	ND	2.0	67051	10/11/01	EPA 6010B
Cadmium	57	5.0	67051	10/11/01	EPA 6010B
Chromium	ND	10	67051	10/11/01	EPA 6010B
Copper	ND	10	67051	10/11/01	EPA 6010B
Lead	3.8	3.0	67051	10/11/01	EPA 6010B
Mercury	ND	0.20	67111	10/15/01	EPA 7470A
Nickel	480	20	67051	10/11/01	EPA 6010B
Selenium	12	5.0	67051	10/11/01	EPA 6010B
Silver	ND	5.0	67051	10/11/01	EPA 6010B
Thallium	ND	5.0	67051	10/11/01	EPA 6010B
Zinc	1,500	20	67051	10/11/01	EPA 6010B

Priority Pollutant Metals

Lab #:	154673	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700		
Field ID:	A4-17B	Diln Fac:	1.000
Lab ID:	154673-020	Sampled:	10/10/01
Matrix:	Filtrate	Received:	10/10/01
Units:	ug/L	Analyzed:	10/15/01

Analyte	Result	RL	Batch#	Prepared	Analysis
Antimony	ND	60	67051	10/11/01	EPA 6010B
Arsenic	24	5.0	67051	10/11/01	EPA 6010B
Beryllium	ND	2.0	67051	10/11/01	EPA 6010B
Cadmium	6.7	5.0	67051	10/11/01	EPA 6010B
Chromium	ND	10	67051	10/11/01	EPA 6010B
Copper	ND	10	67051	10/11/01	EPA 6010B
Lead	3.2	3.0	67051	10/11/01	EPA 6010B
Mercury	ND	0.20	67111	10/15/01	EPA 7470A
Nickel	52	20	67051	10/11/01	EPA 6010B
Selenium	6.6	5.0	67051	10/11/01	EPA 6010B
Silver	ND	5.0	67051	10/11/01	EPA 6010B
Thallium	ND	5.0	67051	10/11/01	EPA 6010B
Zinc	40	20	67051	10/11/01	EPA 6010B

Priority Pollutant Metals			
Lab #:	154673	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700		
Field ID:	PB12 B	Diln Fac:	1.000
Lab ID:	154673-021	Sampled:	10/10/01
Matrix:	Filtrate	Received:	10/10/01
Units:	ug/L	Analyzed:	10/15/01

Analyte	Result	RL	Batch#	Prepared	Analysis
Antimony	ND	60	67051	10/11/01	EPA 6010B
Arsenic	130	5.0	67051	10/11/01	EPA 6010B
Beryllium	3.8	2.0	67051	10/11/01	EPA 6010B
Cadmium	130	5.0	67051	10/11/01	EPA 6010B
Chromium	140	10	67051	10/11/01	EPA 6010B
Copper	11,000	10	67051	10/11/01	EPA 6010B
Lead	54	3.0	67051	10/11/01	EPA 6010B
Mercury	ND	0.20	67111	10/15/01	EPA 7470A
Nickel	680	20	67051	10/11/01	EPA 6010B
Selenium	140	5.0	67051	10/11/01	EPA 6010B
Silver	ND	5.0	67051	10/11/01	EPA 6010B
Thallium	ND	5.0	67051	10/11/01	EPA 6010B
Zinc	1,600	20	67051	10/11/01	EPA 6010B

Priority Pollutant Metals

Lab #:	154673	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC158560	Batch#:	67051
Matrix:	Filtrate	Prepared:	10/11/01
Units:	ug/L	Analyzed:	10/15/01

Analyte	Result	RL
Antimony	ND	60
Arsenic	ND	5.0
Beryllium	ND	2.0
Cadmium	ND	5.0
Chromium	ND	10
Copper	ND	10
Lead	ND	3.0
Nickel	ND	20
Selenium	ND	5.0
Silver	ND	5.0
Thallium	ND	5.0
Zinc	ND	20

Priority Pollutant Metals

Lab #:	154673	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	67111
Lab ID:	QC158790	Prepared:	10/15/01
Matrix:	Filtrate	Analyzed:	10/15/01
Units:	ug/L		

Result	RL
ND	0.20

Priority Pollutant Metals			
Lab #:	154673	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 6010B
Matrix:	Filtrate	Batch#:	67051
Units:	ug/L	Prepared:	10/11/01
Diln Fac:	1.000	Analyzed:	10/15/01

Type: BS Lab ID: QC158561

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	587.0	117	75-123
Arsenic	100.0	112.0	112	80-120
Beryllium	50.00	54.00	108	80-116
Cadmium	50.00	52.50	105	80-126
Chromium	200.0	209.0	105	80-113
Copper	250.0	259.0	104	80-114
Lead	100.0	107.0	107	78-120
Nickel	500.0	524.0	105	80-116
Selenium	100.0	107.0	107	79-120
Silver	50.00	51.70	103	80-120
Thallium	100.0	102.0	102	80-119
Zinc	500.0	517.0	103	72-126

Type: BSD Lab ID: QC158562

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	567.0	113	75-123	3	21
Arsenic	100.0	108.0	108	80-120	4	20
Beryllium	50.00	54.50	109	80-116	1	20
Cadmium	50.00	53.10	106	80-126	1	20
Chromium	200.0	211.0	106	80-113	1	21
Copper	250.0	261.0	104	80-114	1	24
Lead	100.0	108.0	108	78-120	1	20
Nickel	500.0	528.0	106	80-116	1	23
Selenium	100.0	111.0	111	79-120	4	20
Silver	50.00	51.60	103	80-120	0	26
Thallium	100.0	102.0	102	80-119	0	20
Zinc	500.0	521.0	104	72-126	1	26

Priority Pollutant Metals			
Lab #:	154673	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SDUP	Batch#:	67051
MSS Lab ID:	154670-005	Sampled:	10/10/01
Lab ID:	QC158563	Received:	10/10/01
Matrix:	Filtrate	Prepared:	10/11/01
Units:	ug/L	Analyzed:	10/15/01

Analyte	MSS Result	Result	RL	RPD	Lim
Antimony	<60.00	ND	60	NC	29
Arsenic	12.70	11.90	5.0	7	42
Beryllium	<2.000	ND	2.0	NC	20
Cadmium	7.890	7.970	5.0	1	25
Chromium	<10.00	ND	10	NC	20
Copper	<10.00	ND	10	NC	20
Lead	3.500	4.570	3.0	27	29
Nickel	53.70	53.50	20	0	20
Selenium	9.390	10.30	5.0	9	40
Silver	<5.000	ND	5.0	NC	30
Thallium	14.30	17.60	5.0	21	41
Zinc	35.40	34.50	20	3	33

NC= Not Calculated
 ND= Not Detected
 RL= Reporting Limit
 RPD= Relative Percent Difference
 Page 1 of 1

Priority Pollutant Metals

Lab #:	154673	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SSPIKE	Batch#:	67051
MSS Lab ID:	154670-005	Sampled:	10/10/01
Lab ID:	QC158564	Received:	10/10/01
Matrix:	Filtrate	Prepared:	10/11/01
Units:	ug/L	Analyzed:	10/15/01

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	15.70	500.0	471.0	91	64-128
Arsenic	12.70	100.0	116.0	103	65-131
Beryllium	<0.2500	50.00	46.80	94	71-124
Cadmium	7.890	50.00	53.70	92	70-127
Chromium	1.170	200.0	184.0	91	70-124
Copper	<0.6200	250.0	238.0	95	74-122
Lead	3.500	100.0	97.10	94	66-128
Nickel	53.70	500.0	507.0	91	70-126
Selenium	9.390	100.0	108.0	99	65-132
Silver	<0.6200	50.00	47.90	96	72-125
Thallium	14.30	100.0	101.0	87	58-134
Zinc	35.40	500.0	520.0	97	69-129

Priority Pollutant Metals

Lab #:	154673	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	67111
Matrix:	Filtrate	Prepared:	10/15/01
Units:	ug/L	Analyzed:	10/15/01
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC158791	5.000	4.310	86	80-116		
BSD	QC158792	5.000	4.300	86	80-116	0	20

Priority Pollutant Metals

Lab #:	154673	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	A4-7	Batch#:	67111
Type:	SDUP	Sampled:	10/12/01
MSS Lab ID:	154723-011	Received:	10/12/01
Lab ID:	QC158793	Prepared:	10/15/01
Matrix:	Filtrate	Analyzed:	10/15/01
Units:	ug/L		

MSS Result	Result	RL	RPD	Lim
<0.2000	ND	0.20	NC	22

NC= Not Calculated
 ND= Not Detected
 RL= Reporting Limit
 RPD= Relative Percent Difference
 Page 1 of 1

Priority Pollutant Metals					
Lab #:	154673	Location:	UCB-Richmond Field Sta.		
Client:	URS Corporation	Prep:	METHOD		
Project#:	510996706700	Analysis:	EPA 7470A		
Analyte:	Mercury	Diln Fac:	1.000		
Field ID:	A4-7	Batch#:	67111		
Type:	MS	Sampled:	10/12/01		
MSS Lab ID:	154723-011	Received:	10/12/01		
Lab ID:	QC158794	Prepared:	10/15/01		
Matrix:	Filtrate	Analyzed:	10/15/01		
Units:	ug/L				

MSS Result	Spiked	Result	%REC	Limits
0.05000	5.000	4.970	98	80-114

Priority Pollutant Metals

Lab #:	154673	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	A4-9-4.5	Basis:	dry
Lab ID:	154673-001	Sampled:	10/10/01
Matrix:	Soil	Received:	10/10/01
Units:	mg/Kg		

Moisture: 24%

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	3.2	1.000	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Arsenic	140	0.27	1.000	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Beryllium	ND	0.11	1.000	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Cadmium	10	0.27	1.000	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Chromium	1.9	0.53	1.000	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Copper	470	0.53	1.000	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Lead	94	0.16	1.000	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Mercury	5.0	0.26	12.00	67069	10/12/01	10/12/01	METHOD	EPA 7471
Nickel	27	1.1	1.000	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Selenium	2.7	0.27	1.000	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Silver	3.3	0.27	1.000	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Thallium	ND	0.27	1.000	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Zinc	2,400	21	20.00	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B

Priority Pollutant Metals			
Lab #:	154673	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	A4-9-8	Basis:	dry
Lab ID:	154673-002	Diln Fac:	1.000
Matrix:	Soil	Sampled:	10/10/01
Units:	mg/Kg	Received:	10/10/01

Moisture: 21%

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	3.7	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Arsenic	10	0.31	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Beryllium	0.36	0.12	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Cadmium	3.2	0.31	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Chromium	53	0.61	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Copper	88	0.61	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Lead	8.5	0.18	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Mercury	0.21	0.020	67069	10/12/01	10/12/01	METHOD	EPA 7471
Nickel	75	1.2	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Selenium	0.86	0.31	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Silver	ND	0.31	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Thallium	ND	0.31	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Zinc	120	1.2	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	154673	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	A4-9-11.5	Basis:	dry
Lab ID:	154673-003	Diln Fac:	1.000
Matrix:	Soil	Sampled:	10/10/01
Units:	mg/Kg	Received:	10/10/01

Moisture: 17%

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	3.1	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Arsenic	4.8	0.26	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Beryllium	0.34	0.10	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Cadmium	2.1	0.26	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Chromium	34	0.52	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Copper	27	0.52	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Lead	4.8	0.16	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Mercury	0.074	0.024	67069	10/12/01	10/12/01	METHOD	EPA 7471
Nickel	60	1.0	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Selenium	0.51	0.26	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Silver	ND	0.26	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Thallium	ND	0.26	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Zinc	57	1.0	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	154673	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	A4-12-7.5	Basis:	dry
Lab ID:	154673-006	Sampled:	10/10/01
Matrix:	Soil	Received:	10/10/01
Units:	mg/Kg		

Moisture: 26%

Analyte	Result	RL	Diln	Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	3.3	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Arsenic	130	0.27	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Beryllium	ND	0.11	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Cadmium	280	0.27	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Chromium	8.4	0.55	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Copper	10,000	11	20.00		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Lead	81	0.16	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Mercury	62	3.7	144.0		67069	10/12/01	10/12/01	METHOD	EPA 7471
Nickel	59	1.1	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Selenium	7.5	0.27	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Silver	24	0.27	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Thallium	ND	0.27	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Zinc	16,000	220	200.0		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	154673	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	A4-12-10	Basis:	dry
Lab ID:	154673-007	Sampled:	10/10/01
Matrix:	Soil	Received:	10/10/01
Units:	mg/Kg	Analyzed:	10/16/01

Moisture: 12%

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Prep	Analysis
Antimony	ND	3.4	1.000	67043	10/11/01	EPA 3050	EPA 6010B
Arsenic	5.4	0.28	1.000	67043	10/11/01	EPA 3050	EPA 6010B
Beryllium	0.31	0.11	1.000	67043	10/11/01	EPA 3050	EPA 6010B
Cadmium	2.2	0.28	1.000	67043	10/11/01	EPA 3050	EPA 6010B
Chromium	54	0.56	1.000	67043	10/11/01	EPA 3050	EPA 6010B
Copper	21	0.56	1.000	67043	10/11/01	EPA 3050	EPA 6010B
Lead	7.4	0.17	1.000	67043	10/11/01	EPA 3050	EPA 6010B
Mercury	1.2	0.039	2.000	67151	10/16/01	METHOD	EPA 7471
Nickel	40	1.1	1.000	67043	10/11/01	EPA 3050	EPA 6010B
Selenium	0.50	0.28	1.000	67043	10/11/01	EPA 3050	EPA 6010B
Silver	ND	0.28	1.000	67043	10/11/01	EPA 3050	EPA 6010B
Thallium	ND	0.28	1.000	67043	10/11/01	EPA 3050	EPA 6010B
Zinc	170	1.1	1.000	67043	10/11/01	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	154673	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	A4-13-7	Basis:	dry
Lab ID:	154673-008	Sampled:	10/10/01
Matrix:	Soil	Received:	10/10/01
Units:	mg/Kg		

Moisture: 15%

Analyte	Result	RL	Diln	Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	3.4	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Arsenic	150	0.29	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Beryllium	0.17	0.11	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Cadmium	2,200	5.7	20.00		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Chromium	12	0.57	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Copper	10,000	11	20.00		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Lead	210	0.17	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Mercury	27	3.3	144.0		67069	10/12/01	10/12/01	METHOD	EPA 7471
Nickel	65	1.1	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Selenium	8.1	0.29	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Silver	3.4	0.29	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Thallium	20	0.29	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Zinc	23,000	230	200.0		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B

Priority Pollutant Metals			
Lab #:	154673	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	A4-17-7	Basis:	dry
Lab ID:	154673-009	Sampled:	10/10/01
Matrix:	Soil	Received:	10/10/01
Units:	mg/Kg		

Moisture: 19%

Analyte	Result	RL	Diln	Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	3.6	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Arsenic	74	0.30	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Beryllium	ND	0.12	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Cadmium	36	0.30	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Chromium	3.4	0.60	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Copper	8,900	12	20.00		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Lead	120	0.18	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Mercury	1.4	0.040	2.000		67069	10/12/01	10/12/01	METHOD	EPA 7471
Nickel	62	1.2	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Selenium	5.9	0.30	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Silver	4.1	0.30	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Thallium	2.0	0.30	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Zinc	6,200	240	200.0		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	154673	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	A4-17-10	Diln Fac:	1.000
Lab ID:	154673-010	Sampled:	10/10/01
Matrix:	Soil	Received:	10/10/01
Units:	mg/Kg	Analyzed:	10/16/01
Basis:	dry		

Moisture: 17%

Analyte	Result	RL	Batch#	Prepared	Prep	Analysis
Antimony	ND	3.5	67043	10/11/01	EPA 3050	EPA 6010B
Arsenic	4.6	0.29	67043	10/11/01	EPA 3050	EPA 6010B
Beryllium	0.24	0.12	67043	10/11/01	EPA 3050	EPA 6010B
Cadmium	2.0	0.29	67043	10/11/01	EPA 3050	EPA 6010B
Chromium	33	0.58	67043	10/11/01	EPA 3050	EPA 6010B
Copper	36	0.58	67043	10/11/01	EPA 3050	EPA 6010B
Lead	8.5	0.17	67043	10/11/01	EPA 3050	EPA 6010B
Mercury	0.85	0.023	67151	10/16/01	METHOD	EPA 7471
Nickel	43	1.2	67043	10/11/01	EPA 3050	EPA 6010B
Selenium	0.34	0.29	67043	10/11/01	EPA 3050	EPA 6010B
Silver	ND	0.29	67043	10/11/01	EPA 3050	EPA 6010B
Thallium	ND	0.29	67043	10/11/01	EPA 3050	EPA 6010B
Zinc	180	1.2	67043	10/11/01	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	154673	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	A4-13-9.5	Diln Fac:	1.000
Lab ID:	154673-011	Sampled:	10/10/01
Matrix:	Soil	Received:	10/10/01
Units:	mg/Kg	Analyzed:	10/16/01
Basis:	dry		

Moisture: 19%

Analyte	Result	RL	Batch#	Prepared	Prep	Analysis
Antimony	ND	3.2	67043	10/11/01	EPA 3050	EPA 6010B
Arsenic	6.2	0.27	67043	10/11/01	EPA 3050	EPA 6010B
Beryllium	0.42	0.11	67043	10/11/01	EPA 3050	EPA 6010B
Cadmium	2.5	0.27	67043	10/11/01	EPA 3050	EPA 6010B
Chromium	39	0.54	67043	10/11/01	EPA 3050	EPA 6010B
Copper	22	0.54	67043	10/11/01	EPA 3050	EPA 6010B
Lead	5.8	0.16	67043	10/11/01	EPA 3050	EPA 6010B
Mercury	0.82	0.019	67151	10/16/01	METHOD	EPA 7471
Nickel	63	1.1	67043	10/11/01	EPA 3050	EPA 6010B
Selenium	0.51	0.27	67043	10/11/01	EPA 3050	EPA 6010B
Silver	ND	0.27	67043	10/11/01	EPA 3050	EPA 6010B
Thallium	ND	0.27	67043	10/11/01	EPA 3050	EPA 6010B
Zinc	72	1.1	67043	10/11/01	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	154673	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	PB12-4	Basis:	dry
Lab ID:	154673-012	Sampled:	10/10/01
Matrix:	Soil	Received:	10/10/01
Units:	mg/Kg		

Moisture: 9%

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	2.7	1.000	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Arsenic	89	0.23	1.000	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Beryllium	ND	0.091	1.000	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Cadmium	6.4	0.23	1.000	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Chromium	2.2	0.45	1.000	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Copper	270	0.45	1.000	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Lead	73	0.14	1.000	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Mercury	1.3	0.043	2.000	67069	10/12/01	10/12/01	METHOD	EPA 7471
Nickel	29	0.91	1.000	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Selenium	2.2	0.23	1.000	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Silver	4.5	0.23	1.000	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Thallium	ND	0.23	1.000	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Zinc	160	0.91	1.000	67043	10/11/01	10/16/01	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	154673	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	PB12-11	Diln Fac:	1.000
Lab ID:	154673-013	Sampled:	10/10/01
Matrix:	Soil	Received:	10/10/01
Units:	mg/Kg	Analyzed:	10/16/01
Basis:	dry		

Moisture: 21%

Analyte	Result	RL	Batch#	Prepared	Prep	Analysis
Antimony	ND	3.6	67043	10/11/01	EPA 3050	EPA 6010B
Arsenic	6.8	0.30	67043	10/11/01	EPA 3050	EPA 6010B
Beryllium	0.49	0.12	67043	10/11/01	EPA 3050	EPA 6010B
Cadmium	2.9	0.30	67043	10/11/01	EPA 3050	EPA 6010B
Chromium	39	0.61	67043	10/11/01	EPA 3050	EPA 6010B
Copper	27	0.61	67043	10/11/01	EPA 3050	EPA 6010B
Lead	7.0	0.18	67043	10/11/01	EPA 3050	EPA 6010B
Mercury	0.17	0.020	67151	10/16/01	METHOD	EPA 7471
Nickel	74	1.2	67043	10/11/01	EPA 3050	EPA 6010B
Selenium	0.38	0.30	67043	10/11/01	EPA 3050	EPA 6010B
Silver	ND	0.30	67043	10/11/01	EPA 3050	EPA 6010B
Thallium	ND	0.30	67043	10/11/01	EPA 3050	EPA 6010B
Zinc	230	1.2	67043	10/11/01	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	154673	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	A4-10-4.5	Basis:	dry
Lab ID:	154673-014	Sampled:	10/10/01
Matrix:	Soil	Received:	10/10/01
Units:	mg/Kg		

Moisture: 23%

Analyte	Result	RL	Diln	Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	3.8	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Arsenic	67	0.32	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Beryllium	ND	0.13	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Cadmium	13	0.32	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Chromium	1.0	0.64	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Copper	620	0.64	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Lead	32	0.19	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Mercury	11	3.2	144.0		67069	10/12/01	10/12/01	METHOD	EPA 7471
Nickel	36	1.3	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Selenium	2.3	0.32	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Silver	3.7	0.32	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Thallium	ND	0.32	1.000		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B
Zinc	2,800	26	20.00		67043	10/11/01	10/16/01	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	154673	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	A4-10-10	Diln Fac:	1.000
Lab ID:	154673-015	Sampled:	10/10/01
Matrix:	Soil	Received:	10/10/01
Units:	mg/Kg	Analyzed:	10/16/01
Basis:	dry		

Moisture: 17%

Analyte	Result	RL	Batch#	Prepared	Prep	Analysis
Antimony	ND	3.5	67043	10/11/01	EPA 3050	EPA 6010B
Arsenic	5.2	0.29	67043	10/11/01	EPA 3050	EPA 6010B
Beryllium	0.45	0.12	67043	10/11/01	EPA 3050	EPA 6010B
Cadmium	2.1	0.29	67043	10/11/01	EPA 3050	EPA 6010B
Chromium	54	0.58	67043	10/11/01	EPA 3050	EPA 6010B
Copper	22	0.58	67043	10/11/01	EPA 3050	EPA 6010B
Lead	4.5	0.18	67043	10/11/01	EPA 3050	EPA 6010B
Mercury	0.069	0.019	67151	10/16/01	METHOD	EPA 7471
Nickel	70	1.2	67043	10/11/01	EPA 3050	EPA 6010B
Selenium	0.43	0.29	67043	10/11/01	EPA 3050	EPA 6010B
Silver	ND	0.29	67043	10/11/01	EPA 3050	EPA 6010B
Thallium	ND	0.29	67043	10/11/01	EPA 3050	EPA 6010B
Zinc	180	1.2	67043	10/11/01	EPA 3050	EPA 6010B

Priority Pollutant Metals			
Lab #:	154673	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 3050
Project#:	510996706700	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC158525	Batch#:	67043
Matrix:	Soil	Prepared:	10/11/01
Units:	mg/Kg	Analyzed:	10/16/01
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Arsenic	ND	0.25
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Copper	ND	0.50
Lead	ND	0.15
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Zinc	ND	1.0

Priority Pollutant Metals			
Lab #:	154673	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC158626	Batch#:	67069
Matrix:	Soil	Prepared:	10/12/01
Units:	mg/Kg	Analyzed:	10/12/01
Result	RL		
ND	0.020		

Priority Pollutant Metals			
Lab #:	154673	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC158958	Batch#:	67151
Matrix:	Soil	Prepared:	10/16/01
Units:	mg/Kg	Analyzed:	10/16/01
Result	RL		
ND	0.020		

Priority Pollutant Metals

Lab #:	154673	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 3050
Project#:	510996706700	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	67043
Units:	mg/Kg	Prepared:	10/11/01
Basis:	as received	Analyzed:	10/16/01
Diln Fac:	1.000		

Type: BS Lab ID: QC158526

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	92.00	92	60-129
Arsenic	50.00	44.15	88	64-116
Beryllium	2.500	2.245	90	70-114
Cadmium	10.00	8.650	87	59-114
Chromium	100.0	88.50	89	68-111
Copper	12.50	11.30	90	67-114
Lead	100.0	85.50	86	66-110
Nickel	25.00	22.30	89	68-111
Selenium	50.00	41.65	83	61-110
Silver	10.00	8.750	88	57-116
Thallium	50.00	42.40	85	60-111
Zinc	25.00	21.30	85	57-119

Type: BSD Lab ID: QC158527

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	87.00	87	60-129	6	20
Arsenic	50.00	42.00	84	64-116	5	20
Beryllium	2.500	2.160	86	70-114	4	20
Cadmium	10.00	8.200	82	59-114	5	20
Chromium	100.0	84.50	85	68-111	5	20
Copper	12.50	10.85	87	67-114	4	20
Lead	100.0	82.00	82	66-110	4	20
Nickel	25.00	21.30	85	68-111	5	20
Selenium	50.00	39.50	79	61-110	5	20
Silver	10.00	8.400	84	57-116	4	20
Thallium	50.00	41.15	82	60-111	3	20
Zinc	25.00	20.45	82	57-119	4	20

Priority Pollutant Metals

Lab #:	154673	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 3050
Project#:	510996706700	Analysis:	EPA 6010B
Field ID:	A4-10-10	Diln Fac:	1.000
Type:	SDUP	Batch#:	67043
MSS Lab ID:	154673-015	Sampled:	10/10/01
Lab ID:	QC158528	Received:	10/10/01
Matrix:	Soil	Prepared:	10/11/01
Units:	mg/Kg	Analyzed:	10/16/01
Basis:	dry		

Moisture: 17%

Analyte	MSS Result	Result	RL	RPD	Lim
Antimony	<3.509	ND	3.3	NC	46
Arsenic	5.199	4.636	0.28	11	36
Beryllium	0.4480	0.4420	0.11	1	25
Cadmium	2.146	2.138	0.28	0	27
Chromium	53.87	56.63	0.56	5	32
Copper	22.11	22.15	0.56	0	38
Lead	4.486	4.636	0.17	3	41
Nickel	70.18	69.40	1.1	1	35
Selenium	0.4281	0.4336	0.28	1	34
Silver	<0.2924	ND	0.28	NC	23
Thallium	<0.2924	ND	0.28	NC	36
Zinc	183.1	177.1	1.1	3	37

NC= Not Calculated

ND= Not Detected

RL= Reporting Limit

RPD= Relative Percent Difference

Priority Pollutant Metals

Lab #:	154673	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 3050
Project#:	510996706700	Analysis:	EPA 6010B
Field ID:	A4-10-10	Diln Fac:	1.000
Type:	SSPIKE	Batch#:	67043
MSS Lab ID:	154673-015	Sampled:	10/10/01
Lab ID:	QC158529	Received:	10/10/01
Matrix:	Soil	Prepared:	10/11/01
Units:	mg/Kg	Analyzed:	10/16/01
Basis:	dry		

Moisture: 17%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<1.566	112.1	19.00	17	15-142
Arsenic	5.199	56.04	50.15	80	38-124
Beryllium	0.4480	2.802	2.892	87	46-120
Cadmium	2.146	11.21	11.15	80	37-117
Chromium	53.87	112.1	150.2	86	21-137
Copper	22.11	14.01	32.78	76	24-150
Lead	4.486	112.1	96.39	82	24-132
Nickel	70.18	28.02	91.90	78	21-142
Selenium	0.4281	56.04	42.81	76	32-118
Silver	<0.09036	11.21	9.695	87	45-118
Thallium	<0.1928	56.04	45.39	81	42-112
Zinc	183.1	28.02	195.6	45 NM	20-146

NM= Not Meaningful

Priority Pollutant Metals

Lab #:	154673	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	67069
Units:	mg/Kg	Prepared:	10/12/01
Basis:	as received	Analyzed:	10/12/01

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC158627	0.5000	0.5010	100	80-114		
BSD	QC158628	0.5000	0.5060	101	80-114	1	20



Priority Pollutant Metals

Lab #:	154673	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Basis:	as received
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SDUP	Batch#:	67069
MSS Lab ID:	154570-001	Sampled:	10/03/01
Lab ID:	QC158629	Received:	10/04/01
Matrix:	Soil	Prepared:	10/12/01
Units:	mg/Kg	Analyzed:	10/12/01

MSS Result	Result	RL	RPD	Lim
<0.02000	ND	0.020	NC	35

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit
RPD= Relative Percent Difference
Page 1 of 1

Priority Pollutant Metals

Lab #:	154673	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Basis:	as received
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	MS	Batch#:	67069
MSS Lab ID:	154570-001	Sampled:	10/03/01
Lab ID:	QC158630	Received:	10/04/01
Matrix:	Soil	Prepared:	10/12/01
Units:	mg/Kg	Analyzed:	10/12/01

MSS Result	Spiked	Result	%REC	Limits
0.01500	0.4902	0.5235	104	62-135

Priority Pollutant Metals

Lab #:	154673	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	67151
Units:	mg/Kg	Prepared:	10/16/01
Basis:	as received	Analyzed:	10/16/01

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC158959	0.5000	0.4630	93	80-114		
BSD	QC158960	0.5000	0.4690	94	80-114	1	20

Priority Pollutant Metals

Lab #:	154673	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Basis:	as received
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SDUP	Batch#:	67151
MSS Lab ID:	154739-006	Sampled:	10/11/01
Lab ID:	QC158961	Received:	10/11/01
Matrix:	Soil	Prepared:	10/16/01
Units:	mg/Kg	Analyzed:	10/16/01

MSS Result	Result	RL	RPD	Lim
0.1307	0.1672	0.016	25	35

Priority Pollutant Metals			
Lab #:	154673	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Basis:	as received
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	MS	Batch#:	67151
MSS Lab ID:	154739-006	Sampled:	10/11/01
Lab ID:	QC158962	Received:	10/11/01
Matrix:	Soil	Prepared:	10/16/01
Units:	mg/Kg	Analyzed:	10/16/01

MSS Result	Spiked	Result	%REC	Limits
0.1307	0.4386	0.4807	80	62-135

pH			
Lab #:	154673	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Analysis:	EPA 9040B
Project#:	510996706700		
Analyte:	pH	Batch#:	67027
Matrix:	Water	Sampled:	10/10/01
Units:	SU	Received:	10/10/01
Diln Fac:	1.000	Analyzed:	10/10/01

Field ID	Lab ID	Result	RL
A4-9B	154673-016	5.4	1.0
A4-17B	154673-020	6.1	1.0
PE12 B	154673-021	3.3	1.0

pH			
Lab #:	154673	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Analysis:	EPA 9040B
Project#:	510996706700		
Analyte:	pH	Units:	SU
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SDUP	Batch#:	67027
MSS Lab ID:	154671-003	Sampled:	10/09/01
Lab ID:	QC158475	Received:	10/10/01
Matrix:	Water	Analyzed:	10/10/01

MSS Result	Result	RL	RPD	Lim
8.340	8.340	1.0	0	20

pH			
Lab #:	154673	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Analysis:	EPA 9045C
Project#:	510996706700		
Analyte:	pH	Batch#:	67159
Matrix:	Soil	Sampled:	10/10/01
Units:	SU	Received:	10/10/01
Diln Fac:	1.000	Analyzed:	10/16/01

Field ID	Lab ID	Result	RL
A4-9-4.5	154673-001	6.8	1.0
A4-9-8	154673-002	6.4	1.0
A4-9-11.5	154673-003	7.4	1.0
A4-12-7.5	154673-006	5.8	1.0
A4-12-10	154673-007	6.0	1.0
A4-13-7	154673-008	5.7	1.0
A4-17-7	154673-009	6.2	1.0
A4-17-10	154673-010	6.1	1.0
A4-13-9.5	154673-011	4.8	1.0
PB12-4	154673-012	2.4	1.0
PB12-11	154673-013	4.6	1.0
A4-10-4.5	154673-014	4.3	1.0
A4-10-10	154673-015	5.0	1.0

pH				
Lab #:	154673	Location:	UCB-Richmond Field Sta.	
Client:	URS Corporation	Analysis:	EPA 9045C	
Project#:	510996706700			
Analyte:	pH	Units:	SU	
Field ID:	A4-10-10	Diln Fac:	1.000	
Type:	SDUP	Batch#:	67159	
MSS Lab ID:	154673-015	Sampled:	10/10/01	
Lab ID:	QC158988	Received:	10/10/01	
Matrix:	Soil	Analyzed:	10/16/01	
MSS Result	Result	RL	RPD	Lim
4.970	5.010	1.0	1	20



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

ANALYTICAL REPORT

Prepared for:

URS Corporation
500 12th Street
Suite 200
Oakland, CA 94607

Date: 23-OCT-01
Lab Job Number: 154694
Project ID: 510996706700
Location: UCB-Richmond Field Sta.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: Tracy Bobben
Project Manager

Reviewed by: [Signature]
Operations Manager

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Laboratory Numbers: 154694
Client: URS Corporation
Location: UCB-Richmond Field Sta.
Project ID: 510996706700

Sampled Date: 10/11/01
Received Date: 10/11/01

CASE NARRATIVE

This hardcopy data package contains sample and QC results for nine soil samples and six water samples, which were received from the site referenced above on October 11, 2001. The samples were received cold and intact. All results have been corrected for moisture.

VOCs (EPA 8260): No analytical problems were encountered.

Metals (EPA 6000/7000): High selenium relative percent difference was observed for the sample duplicate of CT# 154723-002. The associated blank spike and blank spike duplicate recoveries and (RPDs) passed all criteria. For sample A4-6-5.5 (CT# 154723-001), the matrix spike recovery for mercury is considered not meaningful (NM) as the sample concentration is four times greater than the spiked level. No other analytical problems were encountered.

General Chemistry: No analytical problems were encountered.

Percent Moisture Summary Report

Date: 15-OCT-01
 Batch: 67116
 Analyst: MLT

Sample	Method	Date	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
154694-007	CLP SOW 390	15-OCT-01	14.9945	20.716	19.8781	85	15
154694-008	CLP SOW 390	15-OCT-01	15.9411	22.2056	20.8417	78	22
154694-009	CLP SOW 390	15-OCT-01	15.3435	20.4926	19.5419	82	18
154694-010	CLP SOW 390	15-OCT-01	15.238	20.5251	18.3028	58	42
154694-011	CLP SOW 390	15-OCT-01	15.006	20.6374	18.5488	63	37
154694-012	CLP SOW 390	15-OCT-01	15.674	20.9606	19.5378	73	27
154694-013	CLP SOW 390	15-OCT-01	15.2629	20.4256	19.24	77	23
154694-014	CLP SOW 390	15-OCT-01	15.6721	21.0714	19.6605	74	26
154694-015	CLP SOW 390	15-OCT-01	15.8061	22.0426	21.001	83	17
154723-001	CLP SOW 390	15-OCT-01	15.0668	20.9797	19.8901	82	18
154723-002	CLP SOW 390	15-OCT-01	15.988	20.9163	20.0931	83	17
154723-003	CLP SOW 390	15-OCT-01	15.3642	20.3718	18.9726	72	28
154723-004	CLP SOW 390	15-OCT-01	15.0951	20.7515	19.8067	83	17
154723-005	CLP SOW 390	15-OCT-01	15.5898	21.0422	19.6434	74	26
154723-006	CLP SOW 390	15-OCT-01	15.9942	20.4625	19.5729	80	20
154723-008	CLP SOW 390	15-OCT-01	15.0759	21.4455	19.7714	74	26
154723-009	CLP SOW 390	15-OCT-01	15.9781	20.9402	20.0603	82	18
154728-001	CLP SOW 390	15-OCT-01	15.731	21.3079	20.6583	88	12
154728-002	CLP SOW 390	15-OCT-01	15.8095	21.0313	20.5203	90	10
QC158838	CLP SOW 390	15-OCT-01	15.5489	20.3556	19.6928	86	14
of 154694-007						RPD: 1.0%	6.0%

Purgeable Organics by GC/MS

Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	PB12B	Batch#:	67134
Lab ID:	154694-005	Sampled:	10/11/01
Matrix:	Water	Received:	10/11/01
Units:	ug/L	Analyzed:	10/16/01
Diln Fac:	40.00		

Analyte	Result	RL
Freon 12	ND	40
Chloromethane	ND	40
Vinyl Chloride	ND	20
Bromomethane	ND	40
Chloroethane	ND	40
Trichlorofluoromethane	ND	20
Acetone	ND	400
Freon 113	ND	200
1,1-Dichloroethene	ND	20
Methylene Chloride	ND	400
Carbon Disulfide	ND	20
MTBE	ND	20
trans-1,2-Dichloroethene	ND	20
Vinyl Acetate	ND	400
1,1-Dichloroethane	ND	20
2-Butanone	ND	400
cis-1,2-Dichloroethene	ND	20
2,2-Dichloropropane	ND	20
Chloroform	ND	20
Bromochloromethane	ND	20
1,1,1-Trichloroethane	ND	20
1,1-Dichloropropene	ND	20
Carbon Tetrachloride	ND	20
1,2-Dichloroethane	ND	20
Benzene	ND	20
Trichloroethene	120	20
1,2-Dichloropropane	ND	20
Bromodichloromethane	ND	20
Dibromomethane	ND	20
4-Methyl-2-Pentanone	ND	400
cis-1,3-Dichloropropene	ND	20
Toluene	ND	20
trans-1,3-Dichloropropene	ND	20
1,1,2-Trichloroethane	ND	20
2-Hexanone	ND	400
1,3-Dichloropropane	ND	20
Tetrachloroethene	6,500	20

Purgeable Organics by GC/MS

Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	PB12B	Batch#:	67134
Lab ID:	154694-005	Sampled:	10/11/01
Matrix:	Water	Received:	10/11/01
Units:	ug/L	Analyzed:	10/16/01
Diln Fac:	40.00		

Analyte	Result	RL
Dibromochloromethane	ND	20
1,2-Dibromoethane	ND	20
Chlorobenzene	ND	20
1,1,1,2-Tetrachloroethane	ND	20
Ethylbenzene	ND	20
m,p-Xylenes	ND	20
o-Xylene	ND	20
Styrene	ND	20
Bromoform	ND	40
Isopropylbenzene	ND	20
1,1,2,2-Tetrachloroethane	ND	20
1,2,3-Trichloropropane	ND	20
Propylbenzene	ND	20
Bromobenzene	ND	20
1,3,5-Trimethylbenzene	ND	20
2-Chlorotoluene	ND	20
4-Chlorotoluene	ND	20
tert-Butylbenzene	ND	20
1,2,4-Trimethylbenzene	ND	20
sec-Butylbenzene	ND	20
para-Isopropyl Toluene	ND	20
1,3-Dichlorobenzene	ND	20
1,4-Dichlorobenzene	ND	20
n-Butylbenzene	ND	20
1,2-Dichlorobenzene	ND	20
1,2-Dibromo-3-Chloropropane	ND	20
1,2,4-Trichlorobenzene	ND	20
Hexachlorobutadiene	ND	20
Naphthalene	ND	20
1,2,3-Trichlorobenzene	ND	20

Surrogate	%REC	Limits
Dibromofluoromethane	112	80-122
1,2-Dichloroethane-d4	116	78-123
Toluene-d8	96	80-110
Bromofluorobenzene	103	80-115

Purgeable Organics by GC/MS

Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC158899	Batch#:	67134
Matrix:	Water	Analyzed:	10/16/01
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5

Purgeable Organics by GC/MS

Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC158899	Batch#:	67134
Matrix:	Water	Analyzed:	10/16/01
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-122
1,2-Dichloroethane-d4	114	78-123
Toluene-d8	97	80-110
Bromofluorobenzene	105	80-115

Purgeable Organics by GC/MS

Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC158900	Batch#:	67134
Matrix:	Water	Analyzed:	10/16/01
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	0.5
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5

Purgeable Organics by GC/MS

Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC158900	Batch#:	67134
Matrix:	Water	Analyzed:	10/16/01
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	112	80-122
1,2-Dichloroethane-d4	111	78-123
Toluene-d8	96	80-110
Bromofluorobenzene	105	80-115

Purgeable Organics by GC/MS

Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC158898	Batch#:	67134
Matrix:	Water	Analyzed:	10/16/01
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	58.36	117	74-132
Benzene	50.00	49.72	99	80-116
Trichloroethene	50.00	51.77	104	80-119
Toluene	50.00	48.22	96	80-120
Chlorobenzene	50.00	49.75	100	80-117

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-122
1,2-Dichloroethane-d4	116	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	104	80-115

Purgeable Organics by GC/MS

Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	67134
MSS Lab ID:	154724-001	Sampled:	10/11/01
Matrix:	Water	Received:	10/11/01
Units:	ug/L	Analyzed:	10/17/01
Diln Fac:	1.000		

Type: MS Lab ID: QC158919

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.2900	50.00	62.09	124	70-132
Benzene	<0.08100	50.00	51.22	102	80-114
Trichloroethene	<0.07300	50.00	53.31	107	62-137
Toluene	<0.08500	50.00	50.40	101	79-121
Chlorobenzene	<0.08100	50.00	49.86	100	80-117

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-122
1,2-Dichloroethane-d4	121	78-123
Toluene-d8	100	80-110
Bromofluorobenzene	103	80-115

Type: MSD Lab ID: QC158920

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	59.02	118	70-132	5	20
Benzene	50.00	49.45	99	80-114	4	20
Trichloroethene	50.00	51.68	103	62-137	3	20
Toluene	50.00	48.86	98	79-121	3	20
Chlorobenzene	50.00	49.07	98	80-117	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-122
1,2-Dichloroethane-d4	118	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	103	80-115

RPD= Relative Percent Difference



Purgeable Organics by GC/MS

Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	AR2-11.5	Diln Fac:	1.000
Lab ID:	154694-011	Batch#:	67063
Matrix:	Soil	Sampled:	10/11/01
Units:	ug/Kg	Received:	10/11/01
Basis:	dry	Analyzed:	10/12/01

Moisture: 37%

Analyte	Result	RL
Freon 12	ND	16
Chloromethane	ND	16
Vinyl Chloride	ND	16
Bromomethane	ND	16
Chloroethane	ND	16
Trichlorofluoromethane	ND	7.9
Acetone	ND	32
Freon 113	ND	7.9
1,1-Dichloroethene	ND	7.9
Methylene Chloride	ND	32
Carbon Disulfide	ND	7.9
MTBE	ND	7.9
trans-1,2-Dichloroethene	ND	7.9
Vinyl Acetate	ND	79
1,1-Dichloroethane	ND	7.9
2-Butanone	ND	16
cis-1,2-Dichloroethene	ND	7.9
2,2-Dichloropropane	ND	7.9
Chloroform	ND	7.9
Bromochloromethane	ND	7.9
1,1,1-Trichloroethane	ND	7.9
1,1-Dichloropropene	ND	7.9
Carbon Tetrachloride	ND	7.9
1,2-Dichloroethane	ND	7.9
Benzene	ND	7.9
Trichloroethene	ND	7.9
1,2-Dichloropropane	ND	7.9
Bromodichloromethane	ND	7.9
Dibromomethane	ND	7.9
4-Methyl-2-Pentanone	ND	16
cis-1,3-Dichloropropene	ND	7.9
Toluene	ND	7.9
trans-1,3-Dichloropropene	ND	7.9
1,1,2-Trichloroethane	ND	7.9
2-Hexanone	ND	16
1,3-Dichloropropane	ND	7.9
Tetrachloroethene	ND	7.9
Dibromochloromethane	ND	7.9
1,2-Dibromoethane	ND	7.9
Chlorobenzene	ND	7.9
1,1,1,2-Tetrachloroethane	ND	7.9
Ethylbenzene	ND	7.9
m,p-Xylenes	ND	7.9
o-Xylene	ND	7.9
Styrene	ND	7.9
Bromoform	ND	7.9
Isopropylbenzene	ND	7.9
1,1,2,2-Tetrachloroethane	ND	7.9
1,2,3-Trichloropropane	ND	7.9
Propylbenzene	ND	7.9
Bromobenzene	ND	7.9
1,3,5-Trimethylbenzene	ND	7.9
2-Chlorotoluene	ND	7.9

ND= Not Detected
RL= Reporting Limit
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Purgeable Organics by GC/MS			
Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	AR2-11.5	Diln Fac:	1.000
Lab ID:	154694-011	Batch#:	67063
Matrix:	Soil	Sampled:	10/11/01
Units:	ug/Kg	Received:	10/11/01
Basis:	dry	Analyzed:	10/12/01

Analyte	Result	RL
4-Chlorotoluene	ND	7.9
tert-Butylbenzene	ND	7.9
1,2,4-Trimethylbenzene	ND	7.9
sec-Butylbenzene	ND	7.9
para-Isopropyl Toluene	ND	7.9
1,3-Dichlorobenzene	ND	7.9
1,4-Dichlorobenzene	ND	7.9
n-Butylbenzene	ND	7.9
1,2-Dichlorobenzene	ND	7.9
1,2-Dibromo-3-Chloropropane	ND	7.9
1,2,4-Trichlorobenzene	ND	7.9
Hexachlorobutadiene	ND	7.9
Naphthalene	ND	7.9
1,2,3-Trichlorobenzene	ND	7.9

Surrogate	%REC	Limits
Dibromofluoromethane	112	63-133
1,2-Dichloroethane-d4	122	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	104	77-126



Purgeable Organics by GC/MS

Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	ARI-8	Diln Fac:	1.000
Lab ID:	154694-013	Batch#:	67063
Matrix:	Soil	Sampled:	10/11/01
Units:	ug/Kg	Received:	10/11/01
Basis:	dry	Analyzed:	10/12/01

Moisture: 23%

Analyte	Result	RL
Freon 12	ND	13
Chloromethane	ND	13
Vinyl Chloride	ND	13
Bromomethane	ND	13
Chloroethane	ND	13
Trichlorofluoromethane	ND	6.5
Acetone	47	26
Freon 113	ND	6.5
1,1-Dichloroethene	ND	6.5
Methylene Chloride	ND	26
Carbon Disulfide	ND	6.5
MTBE	ND	6.5
trans-1,2-Dichloroethene	ND	6.5
Vinyl Acetate	ND	65
1,1-Dichloroethane	ND	6.5
2-Butanone	ND	13
cis-1,2-Dichloroethene	ND	6.5
2,2-Dichloropropane	ND	6.5
Chloroform	ND	6.5
Bromochloromethane	ND	6.5
1,1,1-Trichloroethane	ND	6.5
1,1-Dichloropropene	ND	6.5
Carbon Tetrachloride	ND	6.5
1,2-Dichloroethane	ND	6.5
Benzene	ND	6.5
Trichloroethene	ND	6.5
1,2-Dichloropropane	ND	6.5
Bromodichloromethane	ND	6.5
Dibromomethane	ND	6.5
4-Methyl-2-Pentanone	ND	13
cis-1,3-Dichloropropene	ND	6.5
Toluene	ND	6.5
trans-1,3-Dichloropropene	ND	6.5
1,1,2-Trichloroethane	ND	6.5
2-Hexanone	ND	13
1,3-Dichloropropane	ND	6.5
Tetrachloroethene	ND	6.5
Dibromochloromethane	ND	6.5
1,2-Dibromoethane	ND	6.5
Chlorobenzene	ND	6.5
1,1,1,2-Tetrachloroethane	ND	6.5
Ethylbenzene	ND	6.5
m,p-Xylenes	ND	6.5
o-Xylene	ND	6.5
Styrene	ND	6.5
Bromoform	ND	6.5
Isopropylbenzene	ND	6.5
1,1,2,2-Tetrachloroethane	ND	6.5
1,2,3-Trichloropropane	ND	6.5
Propylbenzene	ND	6.5
Bromobenzene	ND	6.5
1,3,5-Trimethylbenzene	ND	6.5
2-Chlorotoluene	ND	6.5

ND= Not Detected
RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Field ID:	AR1-8	Diln Fac:	1.000
Lab ID:	154694-013	Batch#:	67063
Matrix:	Soil	Sampled:	10/11/01
Units:	ug/Kg	Received:	10/11/01
Basis:	dry	Analyzed:	10/12/01

Analyte	Result	RL
4-Chlorotoluene	ND	6.5
tert-Butylbenzene	ND	6.5
1,2,4-Trimethylbenzene	ND	6.5
sec-Butylbenzene	ND	6.5
para-Isopropyl Toluene	ND	6.5
1,3-Dichlorobenzene	ND	6.5
1,4-Dichlorobenzene	ND	6.5
n-Butylbenzene	ND	6.5
1,2-Dichlorobenzene	ND	6.5
1,2-Dibromo-3-Chloropropane	ND	6.5
1,2,4-Trichlorobenzene	ND	6.5
Hexachlorobutadiene	ND	6.5
Naphthalene	ND	6.5
1,2,3-Trichlorobenzene	ND	6.5

Surrogate	%REC	Limits
Dibromofluoromethane	107	63-133
1,2-Dichloroethane-d4	124	76-127
Toluene-d8	99	80-111
Bromofluorobenzene	101	77-126

Purgeable Organics by GC/MS

Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC158609	Diln Fac:	1.000
Matrix:	Soil	Batch#:	67063
Units:	ug/Kg	Analyzed:	10/12/01

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND= Not Detected

RL= Reporting Limit



Purgeable Organics by GC/MS

Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC158609	Diln Fac:	1.000
Matrix:	Soil	Batch#:	67063
Units:	ug/Kg	Analyzed:	10/12/01

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	105	63-133
1,2-Dichloroethane-d4	118	76-127
Toluene-d8	99	80-111
Bromofluorobenzene	99	77-126

Purgeable Organics by GC/MS

Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	510996706700	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC158608	Diln Fac:	1.000
Matrix:	Soil	Batch#:	67063
Units:	ug/Kg	Analyzed:	10/12/01

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	37.23	74	66-138
Benzene	50.00	46.66	93	76-121
Trichloroethene	50.00	52.78	106	75-124
Toluene	50.00	46.92	94	75-124
Chlorobenzene	50.00	46.93	94	78-115

Surrogate	%REC	Limits
Dibromofluoromethane	109	63-133
1,2-Dichloroethane-d4	123	76-127
Toluene-d8	99	80-111
Bromofluorobenzene	97	77-126

Priority Pollutant Metals

Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700		
Field ID:	A4-9A	Diln Fac:	1.000
Lab ID:	154694-002	Sampled:	10/11/01
Matrix:	Filtrate	Received:	10/11/01
Units:	ug/L	Analyzed:	10/15/01

Analyte	Result	RL	Batch#	Prepared	Analysis
Antimony	ND	60	67051	10/11/01	EPA 6010B
Arsenic	ND	5.0	67051	10/11/01	EPA 6010B
Beryllium	ND	2.0	67051	10/11/01	EPA 6010B
Cadmium	ND	5.0	67051	10/11/01	EPA 6010B
Chromium	ND	10	67051	10/11/01	EPA 6010B
Copper	ND	10	67051	10/11/01	EPA 6010B
Lead	ND	3.0	67051	10/11/01	EPA 6010B
Mercury	ND	0.20	67111	10/15/01	EPA 7470A
Nickel	ND	20	67051	10/11/01	EPA 6010B
Selenium	ND	5.0	67051	10/11/01	EPA 6010B
Silver	ND	5.0	67051	10/11/01	EPA 6010B
Thallium	ND	5.0	67051	10/11/01	EPA 6010B
Zinc	ND	20	67051	10/11/01	EPA 6010B

Priority Pollutant Metals			
Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700		
Field ID:	A4-13A	Diln Fac:	1.000
Lab ID:	154694-003	Sampled:	10/11/01
Matrix:	Filtrate	Received:	10/11/01
Units:	ug/L	Analyzed:	10/15/01

Analyte	Result	RL	Batch#	Prepared	Analysis
Antimony	ND	60	67051	10/11/01	EPA 6010B
Arsenic	ND	5.0	67051	10/11/01	EPA 6010B
Beryllium	ND	2.0	67051	10/11/01	EPA 6010B
Cadmium	ND	5.0	67051	10/11/01	EPA 6010B
Chromium	ND	10	67051	10/11/01	EPA 6010B
Copper	ND	10	67051	10/11/01	EPA 6010B
Lead	ND	3.0	67051	10/11/01	EPA 6010B
Mercury	ND	0.20	67111	10/15/01	EPA 7470A
Nickel	110	20	67051	10/11/01	EPA 6010B
Selenium	ND	5.0	67051	10/11/01	EPA 6010B
Silver	ND	5.0	67051	10/11/01	EPA 6010B
Thallium	7.7	5.0	67051	10/11/01	EPA 6010B
Zinc	38	20	67051	10/11/01	EPA 6010B

Priority Pollutant Metals

Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC158560	Batch#:	67051
Matrix:	Filtrate	Prepared:	10/11/01
Units:	ug/L	Analyzed:	10/15/01

Analyte	Result	RL
Antimony	ND	60
Arsenic	ND	5.0
Beryllium	ND	2.0
Cadmium	ND	5.0
Chromium	ND	10
Copper	ND	10
Lead	ND	3.0
Nickel	ND	20
Selenium	ND	5.0
Silver	ND	5.0
Thallium	ND	5.0
Zinc	ND	20

Priority Pollutant Metals

Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	67111
Lab ID:	QC158790	Prepared:	10/15/01
Matrix:	Filtrate	Analyzed:	10/15/01
Units:	ug/L		

Result	RL
ND	0.20

Priority Pollutant Metals			
Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 6010B
Matrix:	Filtrate	Batch#:	67051
Units:	ug/L	Prepared:	10/11/01
Diln Fac:	1.000	Analyzed:	10/15/01

Type: BS Lab ID: QC158561

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	587.0	117	75-123
Arsenic	100.0	112.0	112	80-120
Beryllium	50.00	54.00	108	80-116
Cadmium	50.00	52.50	105	80-126
Chromium	200.0	209.0	105	80-113
Copper	250.0	259.0	104	80-114
Lead	100.0	107.0	107	78-120
Nickel	500.0	524.0	105	80-116
Selenium	100.0	107.0	107	79-120
Silver	50.00	51.70	103	80-120
Thallium	100.0	102.0	102	80-119
Zinc	500.0	517.0	103	72-126

Type: BSD Lab ID: QC158562

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	567.0	113	75-123	3	21
Arsenic	100.0	108.0	108	80-120	4	20
Beryllium	50.00	54.50	109	80-116	1	20
Cadmium	50.00	53.10	106	80-126	1	20
Chromium	200.0	211.0	106	80-113	1	21
Copper	250.0	261.0	104	80-114	1	24
Lead	100.0	108.0	108	78-120	1	20
Nickel	500.0	528.0	106	80-116	1	23
Selenium	100.0	111.0	111	79-120	4	20
Silver	50.00	51.60	103	80-120	0	26
Thallium	100.0	102.0	102	80-119	0	20
Zinc	500.0	521.0	104	72-126	1	26

Priority Pollutant Metals

Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SDUP	Batch#:	67051
MSS Lab ID:	154670-005	Sampled:	10/10/01
Lab ID:	QC158563	Received:	10/10/01
Matrix:	Filtrate	Prepared:	10/11/01
Units:	ug/L	Analyzed:	10/15/01

Analyte	MSS Result	Result	RL	RPD	Lim
Antimony	<60.00	ND	60	NC	29
Arsenic	12.70	11.90	5.0	7	42
Beryllium	<2.000	ND	2.0	NC	20
Cadmium	7.890	7.970	5.0	1	25
Chromium	<10.00	ND	10	NC	20
Copper	<10.00	ND	10	NC	20
Lead	3.500	4.570	3.0	27	29
Nickel	53.70	53.50	20	0	20
Selenium	9.390	10.30	5.0	9	40
Silver	<5.000	ND	5.0	NC	30
Thallium	14.30	17.60	5.0	21	41
Zinc	35.40	34.50	20	3	33

NC= Not Calculated

ND= Not Detected

RL= Reporting Limit

RPD= Relative Percent Difference

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Priority Pollutant Metals

Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SSPIKE	Batch#:	67051
MSS Lab ID:	154670-005	Sampled:	10/10/01
Lab ID:	QC158564	Received:	10/10/01
Matrix:	Filtrate	Prepared:	10/11/01
Units:	ug/L	Analyzed:	10/15/01

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	15.70	500.0	471.0	91	64-128
Arsenic	12.70	100.0	116.0	103	65-131
Beryllium	<0.2500	50.00	46.80	94	71-124
Cadmium	7.890	50.00	53.70	92	70-127
Chromium	1.170	200.0	184.0	91	70-124
Copper	<0.6200	250.0	238.0	95	74-122
Lead	3.500	100.0	97.10	94	66-128
Nickel	53.70	500.0	507.0	91	70-126
Selenium	9.390	100.0	108.0	99	65-132
Silver	<0.6200	50.00	47.90	96	72-125
Thallium	14.30	100.0	101.0	87	58-134
Zinc	35.40	500.0	520.0	97	69-129

Priority Pollutant Metals

Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	67111
Matrix:	Filtrate	Prepared:	10/15/01
Units:	ug/L	Analyzed:	10/15/01
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC158791	5.000	4.310	86	80-116		
BSD	QC158792	5.000	4.300	86	80-116	0	20

Priority Pollutant Metals

Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	A4-7	Batch#:	67111
Type:	SDUP	Sampled:	10/12/01
MSS Lab ID:	154723-011	Received:	10/12/01
Lab ID:	QC158793	Prepared:	10/15/01
Matrix:	Filtrate	Analyzed:	10/15/01
Units:	ug/L		

MSS Result	Result	RL	RPD	Lim
<0.2000	ND	0.20	NC	22

NC= Not Calculated
 ND= Not Detected
 RL= Reporting Limit
 RPD= Relative Percent Difference
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Priority Pollutant Metals

Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	A4-7	Batch#:	67111
Type:	MS	Sampled:	10/12/01
MSS Lab ID:	154723-011	Received:	10/12/01
Lab ID:	QC158794	Prepared:	10/15/01
Matrix:	Filtrate	Analyzed:	10/15/01
Units:	ug/L		

MSS Result	Spiked	Result	%REC	Limits
0.05000	5.000	4.970	98	80-114

Priority Pollutant Metals

Lab #:	154694	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	PB12-0	Basis:	dry
Lab ID:	154694-007	Sampled:	10/11/01
Matrix:	Soil	Received:	10/11/01
Units:	mg/Kg	Analyzed:	10/16/01

Moisture: 15%

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Prep	Analysis
Antimony	ND	3.4	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Arsenic	220	0.29	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Beryllium	ND	0.11	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Cadmium	8.1	0.29	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Chromium	17	0.57	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Copper	170	0.57	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Lead	190	0.17	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Mercury	8.8	3.7	200.0	67143	10/16/01	METHOD	EPA 7471
Nickel	42	1.1	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Selenium	32	0.29	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Silver	2.1	0.29	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Thallium	ND	0.29	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Zinc	130	1.1	1.000	67083	10/12/01	EPA 3050	EPA 6010B

Priority Pollutant Metals			
Lab #:	154694	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	ARI-2.5	Basis:	dry
Lab ID:	154694-008	Sampled:	10/11/01
Matrix:	Soil	Received:	10/11/01
Units:	mg/Kg	Analyzed:	10/16/01

Moisture: 22%

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Prep	Analysis
Antimony	4.5	3.7	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Arsenic	150	0.31	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Beryllium	ND	0.12	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Cadmium	11	0.31	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Chromium	3.0	0.62	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Copper	400	0.62	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Lead	430	0.19	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Mercury	11	4.7	200.0	67143	10/16/01	METHOD	EPA 7471
Nickel	42	1.2	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Selenium	47	0.31	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Silver	14	0.31	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Thallium	ND	0.31	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Zinc	1,300	120	100.0	67083	10/12/01	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	154694	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	AR2-4	Basis:	dry
Lab ID:	154694-009	Sampled:	10/11/01
Matrix:	Soil	Received:	10/11/01
Units:	mg/Kg	Analyzed:	10/16/01

Moisture: 18%

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Prep	Analysis
Antimony	6.3	3.3	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Arsenic	350	0.28	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Beryllium	0.15	0.11	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Cadmium	26	0.28	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Chromium	31	0.55	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Copper	2,200	55	100.0	67083	10/12/01	EPA 3050	EPA 6010B
Lead	650	0.17	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Mercury	21	4.9	200.0	67143	10/16/01	METHOD	EPA 7471
Nickel	53	1.1	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Selenium	120	0.28	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Silver	17	0.28	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Thallium	1.0	0.28	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Zinc	3,900	110	100.0	67083	10/12/01	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	154694	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	AR2-11	Basis:	dry
Lab ID:	154694-010	Sampled:	10/11/01
Matrix:	Soil	Received:	10/11/01
Units:	mg/Kg	Analyzed:	10/16/01

Moisture: 42%

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Prep	Analysis
Antimony	6.4	5.1	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Arsenic	1,600	0.43	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Beryllium	0.30	0.17	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Cadmium	16	0.43	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Chromium	54	0.86	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Copper	720	0.86	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Lead	300	0.26	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Mercury	61	6.2	200.0	67143	10/16/01	METHOD	EPA 7471
Nickel	70	1.7	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Selenium	93	0.43	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Silver	4.9	0.43	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Thallium	1.1	0.43	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Zinc	2,700	170	100.0	67083	10/12/01	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	154694	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	AR2-11.5	Basis:	dry
Lab ID:	154694-011	Sampled:	10/11/01
Matrix:	Soil	Received:	10/11/01
Units:	mg/Kg	Analyzed:	10/16/01

Moisture: 37%

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Prep	Analysis
Antimony	19	4.6	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Arsenic	980	0.38	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Beryllium	0.17	0.15	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Cadmium	35	0.38	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Chromium	73	0.76	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Copper	1,200	0.76	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Lead	520	0.23	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Mercury	63	5.0	200.0	67143	10/16/01	METHOD	EPA 7471
Nickel	65	1.5	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Selenium	200	0.38	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Silver	11	0.38	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Thallium	ND	0.38	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Zinc	5,400	150	100.0	67083	10/12/01	EPA 3050	EPA 6010B

Curtis & Tompkins, Ltd.
 Analytical Laboratories, Since 1878
 2528 Fifth Street
 Berkeley, CA 94710
 (510) 486-0900 V
 (510) 486-0532 F

FACSIMILE TRANSMISSION
 FACSIMILE TRANSMISSION
 FACSIMILE TRANSMISSION

TO: Bill Carson
 LFR Levine Fricke
 Emeryville, CA

FAX #: (510) 652-2246

FROM: Tracy Babjar

SUBJECT: Analytical Results for Login 154670

DATE: _____
 PAGE 1 of _____

*** If you would like to receive your reports via email (PDF format), please _____
 _____ contact your project manager for details. _____

QA/QC de

THIS FACSIMILE CONTAINS CONFIDENTIAL INFORMATION WHICH MAY BE LEGALLY PRIVILEGED AND WHICH IS INTENDED
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SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd



Curtis & Tompkins, Ltd

COOLER RECEIPT CHECKLIST

Login#: 154670 Date Received: 10/10/01 Number of Coolers: 1
Client: LEP Project: 7545.00.006

- A. Preliminary Examination Phase
Date Opened: 10/10 By (print): Justin (sign) [Signature]
- Did cooler come with a shipping slip (airbill, etc.)?..... YES NO NO
If YES, enter carrier name and airbill number: _____
 - Were custody seals on outside of cooler?..... YES NO NO
How many and where? _____ Seal date: _____ Seal name: _____
 - Were custody seals unbroken and intact at the date and time of arrival?..... YES NO YES
 - Were custody papers dry and intact when received?..... YES NO YES
 - Were custody papers filled out properly (ink, signed, etc.)?..... YES NO YES
 - Did you sign the custody papers in the appropriate place?..... YES NO YES
 - Was project identifiable from custody papers?..... YES NO YES
If YES, enter project name at the top of this form.
 - If required, was sufficient ice used? Samples should be 2-6 degrees C. YES NO
Type of ice: wet Temperature: chilled

- B. Login Phase
Date Logged In: 10/10 By (print): Justin (sign) [Signature]
- Describe type of packing in cooler: Ziplocks
 - Did all bottles arrive unbroken?..... YES NO YES
 - Were labels in good condition and complete (ID, date, time, signature, etc.)?..... YES NO YES
 - Did bottle labels agree with custody papers?..... YES NO YES
 - Were appropriate containers used for the tests indicated?..... YES NO YES
 - Were correct preservatives added to samples?..... YES NO YES
 - Was sufficient amount of sample sent for tests indicated?..... YES NO YES
 - Were bubbles absent in VOA samples? If NO, list sample IDs below..... YES NO YES
 - Was the client contacted concerning this sample delivery?..... YES NO YES
If YES, give details below.
Who was called? _____ By whom? _____ Date: _____

Additional Comments: Metals list no provided
so i put filter d hold



Lab #:	154670	Location:	Zeneca
Client:	LFR Levine Fricke	Analysis:	EPA 9040B
Project#:	7545.00.078	Batch#:	67027
Analyte:	PH	Sampled:	10/10/01
Matrix:	Water	Received:	10/10/01
Units:	SU	Analyzed:	10/10/01
Diln Fac:	1.000		

		5.7	1.0
A4-9B	154670-001	6.9	1.0
A4-5B	154670-002	6.2	1.0
A4-12B	154670-003	4.2	1.0
A4-13B	154670-004	6.1	1.0
A4-17B	154670-005	3.2	1.0
FB-12B	154670-006	5.1	1.0
A4-10B	154670-007		

RL- Reporting Limit
Page 1 of 1



California Title 26 Metals

Lab #:	154670	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.078	Sampled:	10/10/01
Field ID:	A4-9B	Received:	10/10/01
Lab ID:	154670-001	Analyzed:	10/15/01
Matrix:	Filtrate		
Units:	ug/L		

Element	Result	RL	DL	Pass	Batch	Prepared	Analysis
Antimony	ND		50	1.000	67051	10/11/01	EPA 6010B
Arsenic	370		5.0	1.000	67051	10/11/01	EPA 6010B
Barium	52		10	1.000	67051	10/11/01	EPA 6010B
Beryllium	ND		2.0	1.000	67051	10/11/01	EPA 6010B
Cadmium	51		5.0	1.000	67051	10/11/01	EPA 6010B
Chromium	ND		10	1.000	67051	10/11/01	EPA 6010B
Cobalt	120		20	1.000	67051	10/11/01	EPA 6010B
Copper	ND		10	1.000	67051	10/11/01	EPA 6010B
Lead	ND		3.0	1.000	67051	10/11/01	EPA 6010B
Mercury	ND		0.20	1.000	67111	10/15/01	EPA 7470A
Molybdenum	ND		20	1.000	67051	10/11/01	EPA 6010B
Nickel	440		20	1.000	67051	10/11/01	EPA 6010B
Selenium	12		5.0	1.000	67051	10/11/01	EPA 6010B
Silver	ND		5.0	1.000	67051	10/11/01	EPA 6010B
Thallium	ND		5.0	1.000	67051	10/11/01	EPA 6010B
Vanadium	ND		10	1.000	67051	10/11/01	EPA 6010B
Zinc	21,000		400	20.00	67051	10/11/01	EPA 6010B

ND= Not Detected
 RL Reporting Limit
 Page 1 of 1



California Title 26 Metals

Lab #:	154670	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.078		
Field ID:	A4-5B	Diln Fac:	1.000
Lab ID:	154670-002	Sampled:	10/10/01
Matrix:	Filtrate	Received:	10/10/01
Units:	ug/L	Analyzed:	10/15/01

Element	Result	RL	Batch	Prepared	Analysis
Antimony	ND	60	67051	10/11/01	EPA 6010B
Arsenic	400	5.0	67051	10/11/01	EPA 6010B 360
Barium	39	10	67051	10/11/01	EPA 6010B
Beryllium	ND	2.0	67051	10/11/01	EPA 6010B
Cadmium	ND	5.0	67051	10/11/01	EPA 6010B
Chromium	ND	10	67051	10/11/01	EPA 6010B
Cobalt	ND	20	67051	10/11/01	EPA 6010B
Copper	ND	10	67051	10/11/01	EPA 6010B
Lead	ND	3.0	67051	10/11/01	EPA 6010B
Mercury	ND	0.20	67111	10/15/01	EPA 7470A
Molybdenum	ND	20	67051	10/11/01	EPA 6010B
Nickel	ND	20	67051	10/11/01	EPA 6010B
Selenium	ND	5.0	67051	10/11/01	EPA 6010B
Silver	ND	5.0	67051	10/11/01	EPA 6010B
Vanadium	ND	5.0	67051	10/11/01	EPA 6010B
Zinc	31	10	67051	10/11/01	EPA 6010B

ND= Not Detected
 RL Reporting Limit
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California Title 26 Metals			
Lab #:	154670	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.078		
Field ID:	A4-12B	Diln Fac:	1.000
Lab ID:	154670-003	Sampled:	10/10/01
Matrix:	Filtrate	Received:	10/10/01
Units:	ug/L	Analyzed:	10/15/01

Analyte	Result	RI	Batch	Prepared	Analysis
Antimony	ND	60	67051	10/11/01	EPA 6010B
Arsenic	89	5.0	67051	10/11/01	EPA 6010B
Barium	130	10	67051	10/11/01	EPA 6010B
Beryllium	ND	2.0	67051	10/11/01	EPA 6010B
Cadmium	6.4	5.0	67051	10/11/01	EPA 6010B
Chromium	ND	10	67051	10/11/01	EPA 6010B
Cobalt	32	20	67051	10/11/01	EPA 6010B
Copper	ND	10	67051	10/11/01	EPA 6010B
Lead	3.2	3.0	67051	10/11/01	EPA 6010B
Mercury	ND	0.20	67111	10/15/01	EPA 7470A
Molybdenum	ND	20	67051	10/11/01	EPA 6010B
Nickel	43	20	67051	10/11/01	EPA 6010B
Selenium	ND	5.0	67051	10/11/01	EPA 6010B
Silver	ND	5.0	67051	10/11/01	EPA 6010B
Sodium	ND	5.0	67051	10/11/01	EPA 6010B
Vanadium	ND	10	67051	10/11/01	EPA 6010B
Zinc	130	20	67051	10/11/01	EPA 6010B

ND= Not Detected
 RI Reporting Limit
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Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	15#670	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.078		
Field ID:	A4-13B	Sampled:	10/10/01
Lab ID:	15#670-004	Received:	10/10/01
Matrix:	Filtrate	Analyzed:	10/15/01
Units:	ug/L		

Element	Result	RL	DIL	PAR	Batch	Prepared	Analysis
Antimony	ND	60	1.000		67051	10/11/01	EPA 6010B
Arsenic	25	5.0	1.000		67051	10/11/01	EPA 6010B
Barium	140	10	1.000		67051	10/11/01	EPA 6010B
Beryllium	ND	2.0	1.000		67051	10/11/01	EPA 6010B
Cadmium	37	5.0	1.000		67051	10/11/01	EPA 6010B
Chromium	ND	10	1.000		67051	10/11/01	EPA 6010B
Cobalt	110	20	1.000		67051	10/11/01	EPA 6010B
Copper	ND	10	1.000		67051	10/11/01	EPA 6010B
Lead	59	3.0	1.000		67051	10/11/01	EPA 6010B
Mercury	ND	0.20	1.000		67111	10/15/01	EPA 7470A
Molybdenum	ND	20	1.000		67051	10/11/01	EPA 6010B
Nickel	380	20	1.000		67051	10/11/01	EPA 6010B
Selenium	24	5.0	1.000		67051	10/11/01	EPA 6010B
Silver	ND	5.0	1.000		67051	10/11/01	EPA 6010B
Lithium	7.6	5.0	1.000		67051	10/11/01	EPA 6010B
Vanadium	ND	10	1.000		67051	10/11/01	EPA 6010B
Zinc	19.000	400	20.00		67051	10/11/01	EPA 6010B

ND= Not Detected
 R Reporting Limit
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Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	154670	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.078		
Field ID:	A4-17B	Diln Fac:	1.000
Lab ID:	154670-005	Sampled:	10/10/01
Matrix:	Filtrate	Received:	10/10/01
Units:	ug/L	Analyzed:	10/15/01

Element	Result	Reporting Limit	Batch	Prepared	Analysis
Antimony	ND		60	67051 10/11/01	EPA 6010B
Arsenic	13		5.0	67051 10/11/01	EPA 6010B
Barium	210		10	67051 10/11/01	EPA 6010B
Beryllium	ND		2.0	67051 10/11/01	EPA 6010B
Cadmium	7.9		5.0	67051 10/11/01	EPA 6010B
Chromium	ND		10	67051 10/11/01	EPA 6010B
Cobalt	30		20	67051 10/11/01	EPA 6010B
Copper	ND		10	67051 10/11/01	EPA 6010B
Lead	3.5		3.0	67051 10/11/01	EPA 6010B
Mercury	ND		0.20	67111 10/15/01	EPA 7470A
Molybdenum	ND		20	67051 10/11/01	EPA 6010B
Nickel	54		20	67051 10/11/01	EPA 6010B
Selenium	9.4		5.0	67051 10/11/01	EPA 6010B
Silver	ND		5.0	67051 10/11/01	EPA 6010B
llium	14		5.0	67051 10/11/01	EPA 6010B
Vanadium	ND		10	67051 10/11/01	EPA 6010B
Zinc	35		20	67051 10/11/01	EPA 6010B

ND= Not Detected
 F Reporting Limit
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Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	154670	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	75&5.00.078		
Field ID:	PB-128	Sampled:	10/10/01
Lab ID:	154670-006	Received:	10/10/01
Matrix:	Filtrate	Analyzed:	10/15/01
Units:	ug/L		

Element	Result	RL	Dil. Fc	Batch	Prepared	Agency
Antimony	ND	60	1.000	67051	10/11/01	EPA 6010B
Arsenic	92	5.0	1.000	67051	10/11/01	EPA 6010B
Barium	27	10	1.000	67051	10/11/01	EPA 6010B
Beryllium	4.1	2.0	1.000	67051	10/11/01	EPA 6010B
Cadmium	160	5.0	1.000	67051	10/11/01	EPA 6010B
Chromium	150	10	1.000	67051	10/11/01	EPA 6010B
Cobalt	250	20	1.000	67051	10/11/01	EPA 6010B
Copper	14,000	10	1.000	67051	10/11/01	EPA 6010B
Lead	54	3.0	1.000	67051	10/11/01	EPA 6010B
Mercury	ND	0.20	1.000	67111	10/15/01	EPA 7470A
Molybdenum	ND	20	1.000	67051	10/11/01	EPA 6010B
Nickel	790	20	1.000	67051	10/11/01	EPA 6010B
Selenium	12	5.0	1.000	67051	10/11/01	EPA 6010B
Silver	ND	5.0	1.000	67051	10/11/01	EPA 6010B
Thallium	18	5.0	1.000	67051	10/11/01	EPA 6010B
Vanadium	22	10	1.000	67051	10/11/01	EPA 6010B
Zinc	33,000	400	20.00	67051	10/11/01	EPA 6010B

ND Not Detected
 RL Reporting Limit
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Curtis & Tompkins, Ltd

California Title 26 Method

Lab #:	154670	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.078		
Field ID:	A4-10B	Sampled:	10/10/01
Lab ID:	154670-007	Received:	10/10/01
Matrix:	Filtrate	Analyzed:	10/15/01
Units:	ug/L		

Analyte	Result	Reporting Limit	Factor	Batch	Prepared	Analysis
Antimony	ND	50	1.000	67051	10/11/01	EPA 6010B
Arsenic	59	5.0	1.000	67051	10/11/01	EPA 6010B
Barium	89	10	1.000	67051	10/11/01	EPA 6010B
Beryllium	ND	2.0	1.000	67051	10/11/01	EPA 6010B
Cadmium	46	5.0	1.000	67051	10/11/01	EPA 6010B
Chromium	ND	10	1.000	67051	10/11/01	EPA 6010B
Cobalt	98	20	1.000	67051	10/11/01	EPA 6010B
Copper	ND	10	1.000	67051	10/11/01	EPA 6010B
Lead	3.2	3.0	1.000	67051	10/11/01	EPA 6010B
Mercury	ND	0.20	1.000	67111	10/15/01	EPA 7470A
Molybdenum	ND	20	1.000	67051	10/11/01	EPA 6010B
Nickel	420	20	1.000	67051	10/11/01	EPA 6010B
Selenium	9.3	5.0	1.000	67051	10/11/01	EPA 6010B
Silver	ND	5.0	1.000	67051	10/11/01	EPA 6010B
llium	ND	5.0	1.000	67051	10/11/01	EPA 6010B
Vanadium	ND	10	1.000	67051	10/11/01	EPA 6010B
Zinc	21,000	400	20.00	67051	10/11/01	EPA 6010B

ND= Not Detected
 Reporting Limit
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California Title 25 Metals

Lab #:	154670	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.078	Analysis:	EPA 6010B
Type:	BLANK	Diln fac:	1.000
Lab ID:	QC158560	Batch#:	67051
Matrix:	Filtrate	Prepared:	10/11/01
Units:	ug/L	Analyzed:	10/15/01

Analyte	Result	Limit
Antimony	ND	60
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	ND	5.0
Chromium	ND	10
Cobalt	ND	20
Copper	ND	10
Lead	ND	3.0
Molybdenum	ND	20
Nickel	ND	20
Selenium	ND	5.0
Silver	ND	5.0
Thallium	ND	5.0
Vanadium	ND	10
Zinc	ND	20

~ Not Detected
 - Reporting Limit
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Curtis & Tompkins, Ltd

California Title 26 Methods

Lab #:	154670	Location:	Zeneca
Client:	LFR Levine Pricke	Prep:	METHOD
Project#:	7545.00.078	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	67111
Lab ID:	QC158790	Prepared:	10/15/01
Matrix:	Filtrate	Analyzed:	10/15/01
Units:	ug/L		

ND	0.20
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ND= Not Detected
 Reporting Limit
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Cummins & Tompkins, Ltd.

Cummins Title 26 Metals

Lab #:	154670	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.078	Analysis:	EPA 6010B
Matrix:	Filtrate	Batch#:	67051
Units:	ug/L	Prepared:	10/11/01
Diln Fac:	1.000	Analyzed:	10/15/01

type: BS Lab ID: QC158561

Element	Sp. Len	Result	Unit	Limit
Antimony	500.0	587.0	117	75-123
Arsenic	100.0	112.0	112	80-120
Barium	2,000	2,040	102	80-116
Beryllium	50.00	54.00	108	80-116
Cadmium	50.00	52.50	105	80-126
Chromium	200.0	209.0	105	80-113
Cobalt	500.0	514.0	103	80-112
Copper	250.0	259.0	104	80-114
Lead	100.0	107.0	107	78-120
Molybdenum	400.0	432.0	108	80-114
Nickel	500.0	524.0	105	80-116
Selenium	100.0	107.0	107	79-120
Silver	50.00	51.70	103	80-120
Thallium	100.0	102.0	102	80-119
Vanadium	500.0	527.0	105	80-111
Zinc	500.0	517.0	103	72-126

type: BSD Lab ID: QC158562

Element	Sp. Len	Result	Unit	Limit	RPD
Antimony	500.0	567.0	113	75-123	3
Arsenic	100.0	108.0	108	80-120	4
Barium	2,000	2,040	102	80-116	0
Beryllium	50.00	54.50	109	80-116	1
Cadmium	50.00	53.10	106	80-126	1
Chromium	200.0	211.0	106	80-113	1
Cobalt	500.0	517.0	103	80-112	1
Copper	250.0	261.0	104	80-114	1
Lead	100.0	108.0	108	78-120	1
Molybdenum	400.0	433.0	108	80-114	0
Nickel	500.0	528.0	106	80-116	1
Selenium	100.0	111.0	111	79-120	4
Silver	50.00	51.60	103	80-120	0
Thallium	100.0	102.0	102	80-119	0
Vanadium	500.0	530.0	106	80-111	1
Zinc	500.0	521.0	104	72-126	1

Relative Percent Difference
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Curtis & Tompkins, Ltd.

California Title 26 Metals			
Lab #:	154670	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.078	Analysis:	EPA 6010B
Field ID:	A4-17B	Diln Fac:	1.000
Type:	SDUP	Batch#:	670S1
MSS Lab ID:	154670-005	Sampled:	10/10/01
Lab ID:	QC158563	Received:	10/10/01
Matrix:	Filtrate	Prepared:	10/11/01
Units:	ug/L	Analyzed:	10/15/01

Analysis	MSS Result	Result	RL	RPD	Lim
Antimony	<60.00	ND	60	NC	29
Arsenic	12.70	11.90	5.0	7	42
Barium	206.0	206.0	10	0	20
Beryllium	<2.000	ND	2.0	NC	20
Cadmium	7.290	7.970	5.0	1	25
Chromium	<10.00	ND	10	NC	20
Cobalt	29.90	29.60	20	1	20
Copper	<10.00	ND	10	NC	20
Lead	3.500	4.570	3.0	27	29
Molybdenum	<20.00	ND	20	NC	20
Nickel	53.70	53.50	20	0	20
Selenium	9.390	10.30	5.0	9	40
Silver	<5.000	ND	5.0	NC	30
Thallium	14.30	17.60	5.0	21	41
Vanadium	<10.00	ND	10	NC	41
Zinc	35.40	34.50	20	3	33

NC= Not Calculated

ND= Not Detected

RL= Reporting Limit

RPD= Relative Percent Difference

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Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	154670	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.078	Analysis:	EPA 6010B
Field ID:	A4-17B	Diln Fac:	1.000
Type:	SSPIKE	Batch#:	67051
MSS Lab ID:	154670-005	Sampled:	10/10/01
Lab ID:	QC158564	Received:	10/10/01
Matrix:	Filtrate	Prepared:	10/11/01
Units:	ug/L	Analyzed:	10/15/01

Analysis	MSS Result	Spiked	Result	REC	Lim. val
Antimony	15.70	500.0	471.0	91	64-128
Arsenic	12.70	100.0	116.0	103	65-131
Barium	206.0	2,000	2,000	90	75-120
Beryllium	<0.2500	50.00	46.80	94	71-124
Cadmium	7.890	50.00	53.70	92	70-127
Chromium	1.170	200.0	184.0	91	70-124
Cobalt	29.90	500.0	488.0	92	73-122
Copper	<0.6200	250.0	238.0	95	74-122
Lead	3.500	100.0	97.10	94	66-128
Molybdenum	6.190	400.0	391.0	96	72-122
Nickel	53.70	500.0	507.0	91	70-126
Selenium	9.390	100.0	108.0	99	65-132
Silver	<0.6200	50.00	47.90	96	72-125
Thallium	14.30	100.0	101.0	87	58-134
Vanadium	1.290	500.0	473.0	94	58-134
Zinc	35.40	500.0	520.0	97	69-129



California Title 26 Metals

Lab #:	154670	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.078	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	67111
Matrix:	Filtrate	Prepared:	10/15/01
Units:	ug/L	Analyzed:	10/15/01
Diln Fac:	1.000		

Sample	Lab ID	Spiked	Result	REC	Limit	RPD	Lim
BS	QC158791	5.000	4.310	86	80-116		
BSD	QC158792	5.000	4.300	86	80-116	0	20

RPD= Relative Percent Difference
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California Title 26 Metals

Lab #:	154670	Location:	Zeneca
Client:	LFR Levine Fracke	Prep:	METHOD
Project#:	7545.00-078	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	67111
Type:	SDUP	Sampled:	10/12/01
MSS Lab ID:	154723-011	Received:	10/12/01
Lab ID:	QC158793	Prepared:	10/15/01
Matrix:	Filtrate	Analyzed:	10/15/01
Units:	ug/L		

MSS Result	Result	RL	RPD	Lim
<0.2000	ND	0.20	NC	22

NC= Not Calculated
 ND= Not Detected
 RL= Reporting Limit
 RPD= Relative Percent Difference
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Priority Pollutant Metals			
Lab #:	154694	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	AR1-5	Basis:	dry
Lab ID:	154694-012	Sampled:	10/11/01
Matrix:	Soil	Received:	10/11/01
Units:	mg/Kg	Analyzed:	10/16/01

Moisture: 27%

Analyte	Result	RL	Diln	Fac	Batch#	Prepared	Prep	Analysis
Antimony	ND	4.0	1.000		67083	10/12/01	EPA 3050	EPA 6010B
Arsenic	71	0.33	1.000		67083	10/12/01	EPA 3050	EPA 6010B
Beryllium	0.22	0.13	1.000		67083	10/12/01	EPA 3050	EPA 6010B
Cadmium	2.7	0.33	1.000		67083	10/12/01	EPA 3050	EPA 6010B
Chromium	36	0.66	1.000		67083	10/12/01	EPA 3050	EPA 6010B
Copper	73	0.66	1.000		67083	10/12/01	EPA 3050	EPA 6010B
Lead	48	0.20	1.000		67083	10/12/01	EPA 3050	EPA 6010B
Mercury	0.36	0.022	1.000		67143	10/16/01	METHOD	EPA 7471
Nickel	47	1.3	1.000		67083	10/12/01	EPA 3050	EPA 6010B
Selenium	3.3	0.33	1.000		67083	10/12/01	EPA 3050	EPA 6010B
Silver	0.76	0.33	1.000		67083	10/12/01	EPA 3050	EPA 6010B
Thallium	ND	0.33	1.000		67083	10/12/01	EPA 3050	EPA 6010B
Zinc	490	130	100.0		67083	10/12/01	EPA 3050	EPA 6010B

Priority Pollutant Metals			
Lab #:	154694	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	AR1-8	Diln Fac:	1.000
Lab ID:	154694-013	Sampled:	10/11/01
Matrix:	Soil	Received:	10/11/01
Units:	mg/Kg	Analyzed:	10/16/01
Basis:	dry		

Moisture: 23%

Analyte	Result	RL	Batch#	Prepared	Prep	Analysis
Antimony	ND	3.6	67083	10/12/01	EPA 3050	EPA 6010B
Arsenic	23	0.30	67083	10/12/01	EPA 3050	EPA 6010B
Beryllium	0.17	0.12	67083	10/12/01	EPA 3050	EPA 6010B
Cadmium	1.4	0.30	67083	10/12/01	EPA 3050	EPA 6010B
Chromium	24	0.60	67083	10/12/01	EPA 3050	EPA 6010B
Copper	11	0.60	67083	10/12/01	EPA 3050	EPA 6010B
Lead	4.8	0.18	67083	10/12/01	EPA 3050	EPA 6010B
Mercury	0.13	0.019	67143	10/16/01	METHOD	EPA 7471
Nickel	31	1.2	67083	10/12/01	EPA 3050	EPA 6010B
Selenium	0.61	0.30	67083	10/12/01	EPA 3050	EPA 6010B
Silver	ND	0.30	67083	10/12/01	EPA 3050	EPA 6010B
Thallium	ND	0.30	67083	10/12/01	EPA 3050	EPA 6010B
Zinc	28	1.2	67083	10/12/01	EPA 3050	EPA 6010B

Priority Pollutant Metals			
Lab #:	154694	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	A4-16-5.5	Basis:	dry
Lab ID:	154694-014	Sampled:	10/11/01
Matrix:	Soil	Received:	10/11/01
Units:	mg/Kg	Analyzed:	10/16/01

Moisture: 26%

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Prep	Analysis
Antimony	ND	3.8	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Arsenic	100	0.32	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Beryllium	ND	0.13	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Cadmium	24	0.32	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Chromium	2.6	0.63	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Copper	860	0.63	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Lead	71	0.19	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Mercury	1,000	98	5,000	67143	10/16/01	METHOD	EPA 7471
Nickel	36	1.3	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Selenium	2.4	0.32	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Silver	5.0	0.32	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Thallium	ND	0.32	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Zinc	6,400	130	100.0	67083	10/12/01	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	154694	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	A4-16-11.5	Basis:	dry
Lab ID:	154694-015	Sampled:	10/11/01
Matrix:	Soil	Received:	10/11/01
Units:	mg/Kg	Analyzed:	10/16/01

Moisture: 17%

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Prep	Analysis
Antimony	ND	3.4	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Arsenic	1.9	0.28	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Beryllium	0.23	0.11	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Cadmium	1.3	0.28	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Chromium	30	0.56	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Copper	19	0.56	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Lead	6.8	0.17	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Mercury	5.4	4.3	200.0	67143	10/16/01	METHOD	EPA 7471
Nickel	43	1.1	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Selenium	ND	0.28	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Silver	ND	0.28	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Thallium	ND	0.28	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Zinc	81	1.1	1.000	67083	10/12/01	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 3050
Project#:	510996706700	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC158681	Batch#:	67083
Matrix:	Soil	Prepared:	10/12/01
Units:	mg/Kg	Analyzed:	10/16/01
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Arsenic	ND	0.25
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Copper	ND	0.50
Lead	ND	0.15
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Zinc	ND	1.0

Priority Pollutant Metals			
Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC158930	Batch#:	67143
Matrix:	Soil	Prepared:	10/16/01
Units:	mg/Kg	Analyzed:	10/16/01
Result	RL		
ND	0.020		

Priority Pollutant Metals			
Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 3050
Project#:	510996706700	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	67083
Units:	mg/Kg	Prepared:	10/12/01
Basis:	as received	Analyzed:	10/16/01
Diln Fac:	1.000		

Type: BS Lab ID: QC158682

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	93.50	94	60-129
Arsenic	50.00	44.45	89	64-116
Beryllium	2.500	2.300	92	70-114
Cadmium	10.00	8.300	83	59-114
Chromium	100.0	90.00	90	68-111
Copper	12.50	11.60	93	67-114
Lead	100.0	86.50	87	66-110
Nickel	25.00	22.10	88	68-111
Selenium	50.00	41.65	83	61-110
Silver	10.00	9.000	90	57-116
Thallium	50.00	41.70	83	60-111
Zinc	25.00	21.50	86	57-119

Type: BSD Lab ID: QC158683

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	94.00	94	60-129	1	20
Arsenic	50.00	45.60	91	64-116	3	20
Beryllium	2.500	2.385	95	70-114	4	20
Cadmium	10.00	8.600	86	59-114	4	20
Chromium	100.0	92.50	93	68-111	3	20
Copper	12.50	11.75	94	67-114	1	20
Lead	100.0	89.00	89	66-110	3	20
Nickel	25.00	22.85	91	68-111	3	20
Selenium	50.00	42.10	84	61-110	1	20
Silver	10.00	9.150	92	57-116	2	20
Thallium	50.00	43.75	88	60-111	5	20
Zinc	25.00	22.10	88	57-119	3	20

Priority Pollutant Metals			
Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 3050
Project#:	510996706700	Analysis:	EPA 6010B
Field ID:	A4-6-7	Diln Fac:	1.000
Type:	SDUP	Batch#:	67083
MSS Lab ID:	154723-002	Sampled:	10/12/01
Lab ID:	QC158684	Received:	10/12/01
Matrix:	Soil	Prepared:	10/12/01
Units:	mg/Kg	Analyzed:	10/16/01
Basis:	dry		

Moisture: 17%

Analyte	MSS Result	Result	RL	RPD	Lim
Antimony	<3.459	ND	3.4	NC	46
Arsenic	3.459	3.854	0.29	11	36
Beryllium	0.3851	0.3769	0.11	2	25
Cadmium	1.614	1.702	0.29	5	27
Chromium	28.02	34.95	0.57	22	32
Copper	20.75	19.99	0.57	4	38
Lead	5.938	4.939	0.17	18	41
Nickel	45.71	38.43	1.1	17	35
Selenium	0.6053	0.3877	0.29	44 *	34
Silver	<0.2882	ND	0.29	NC	23
Thallium	<0.2882	ND	0.29	NC	36
Zinc	35.97	37.23	1.1	3	37

*= Value outside of QC limits; see narrative

NC= Not Calculated

ND= Not Detected

RL= Reporting Limit

RPD= Relative Percent Difference

Page 1 of 1

Priority Pollutant Metals

Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 3050
Project#:	510996706700	Analysis:	EPA 6010B
Field ID:	A4-6-7	Diln Fac:	1.000
Type:	SSPIKE	Batch#:	67083
MSS Lab ID:	154723-002	Sampled:	10/12/01
Lab ID:	QC158685	Received:	10/12/01
Matrix:	Soil	Prepared:	10/12/01
Units:	mg/Kg	Analyzed:	10/16/01
Basis:	dry		

Moisture: 17%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<1.566	119.9	28.23	24	15-142
Arsenic	3.459	59.94	48.43	75	38-124
Beryllium	0.3851	2.997	2.895	84	46-120
Cadmium	1.614	11.99	11.03	79	37-117
Chromium	28.02	119.9	130.7	86	21-137
Copper	20.75	14.99	35.90	101	24-150
Lead	5.938	119.9	98.90	78	24-132
Nickel	45.71	29.97	77.92	107	21-142
Selenium	0.6053	59.94	37.94	62	32-118
Silver	<0.08916	11.99	9.770	82	45-118
Thallium	<0.1928	59.94	45.97	77	42-112
Zinc	35.97	29.97	66.53	102	20-146

Priority Pollutant Metals			
Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	67143
Units:	mg/Kg	Prepared:	10/16/01
Basis:	as received	Analyzed:	10/16/01

Type	Lab ID	Spiked	Result	TREC	Limits	RPD	Lim
BS	QC158931	0.5000	0.5120	102	80-114		
BSD	QC158932	0.5000	0.5130	103	80-114	0	20

Priority Pollutant Metals

Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Basis:	dry
Field ID:	A4-6-5.5	Diln Fac:	200.0
Type:	SDUP	Batch#:	67143
MSS Lab ID:	154723-001	Sampled:	10/12/01
Lab ID:	QC158933	Received:	10/12/01
Matrix:	Soil	Prepared:	10/16/01
Units:	mg/Kg	Analyzed:	10/16/01

MSS Result	Result	RL	Moisture	RPD	Lim
56.98	63.23	4.5	18%	10	35

Priority Pollutant Metals					
Lab #:	154694	Location:	UCB-Richmond Field Sta.		
Client:	URS Corporation	Prep:	METHOD		
Project#:	510996706700	Analysis:	EPA 7471		
Analyte:	Mercury	Basis:	dry		
Field ID:	A4-6-5.5	Diln Fac:	200.0		
Type:	MS	Batch#:	67143		
MSS Lab ID:	154723-001	Sampled:	10/12/01		
Lab ID:	QC158934	Received:	10/12/01		
Matrix:	Soil	Prepared:	10/16/01		
Units:	mg/Kg	Analyzed:	10/16/01		
MSS Result	Spiked	Result	%REC	Limits	Moisture
56.98	0.5646	70.46	2388	NM 62-135	18%

pH			
Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Analysis:	EPA 9045C
Project#:	510996706700		
Analyte:	pH	Batch#:	67160
Matrix:	Soil	Sampled:	10/11/01
Units:	SU	Received:	10/11/01
Diln Fac:	1.000	Analyzed:	10/16/01

Field ID	Lab ID	Result	RL
PB12-0	154694-007	2.1	1.0
ARI-2.5	154694-008	2.8	1.0
AR2-4	154694-009	7.2	1.0
AR2-11	154694-010	7.6	1.0
AR2-11.5	154694-011	7.0	1.0
AR1-5	154694-012	6.5	1.0
AR1-8	154694-013	8.6	1.0
A4-16-5.5	154694-014	5.9	1.0
A4-16-11.5	154694-015	7.8	1.0

pH				
Lab #:	154694	Location:	UCB-Richmond Field Sta.	
Client:	URS Corporation	Analysis:	EPA 9045C	
Project#:	510996706700			
Analyte:	pH	Units:	SU	
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000	
Type:	SDUP	Batch#:	67160	
MSS Lab ID:	154573-003	Sampled:	09/30/01	
Lab ID:	QC158989	Received:	10/04/01	
Matrix:	Miscell.	Analyzed:	10/16/01	
MSS Result	Result	RL	RPD	Lim
12.45	12.46	1.0	0	20

pH			
Lab #:	154694	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Analysis:	EPA 9040B
Project#:	510996706700		
Analyte:	pH	Batch#:	67098
Matrix:	Water	Sampled:	10/11/01
Units:	SU	Received:	10/11/01
Diln Fac:	1.000	Analyzed:	10/11/01

Field ID	Lab ID	Result	RL
A4-9A	154694-002	7.1	1.0
A4-13A	154694-003	6.7	1.0

pH				
Lab #:	154694	Location:	UCB-Richmond Field Sta.	
Client:	URS Corporation	Analysis:	EPA 9040B	
Project#:	510996706700			
Analyte:	pH	Units:	SU	
Field ID:	ZZZZZZZZZ	Diln Fac:	1.000	
Type:	SDUP	Batch#:	67098	
MSS Lab ID:	154700-003	Sampled:	10/11/01	
Lab ID:	QC158878	Received:	10/11/01	
Matrix:	Water	Analyzed:	10/11/01	
MSS Result	Result	RL	RPD	Lim
7.900	7.910	1.0	0	20

Curtis & Tompkins, Ltd
Analytical Laboratories. Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 V
(510)486-0532 F

FACSIMILE TRANSMISSION
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TO: Bill Carson
LFR Levine Fricke
Emeryville, CA

DATE: _____

PAGE 1 of _____

FAX #: (510) 652-2246

FROM: Tracy Babjar

SUBJECT: Analytical Results for Login 154699

*** If you would like to receive your reports via email (PDF format), please _____
_____ contact your project manager for details. _____

This facsimile contains CONFIDENTIAL INFORMATION which may be LEGALLY PRIVILEGED and which is intended
only for the use of the addressee(s) named above. If you received this facsimile in error, please
notify us immediately by telephone at (510) 486-0900. Thank you.

1-11-01

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

SAMPLE COLLECTOR: **DLFR** 1900 Powell Street, 12th Floor, Emeryville, California 94608-1827, (510) 652-4500 Fax: (510) 652-2248

PROJECT NO: 1245.00.078 PROJECT NAME: *Zubrick*

SECTION NO: DATE: 10/11/01 SAMPLER'S INITIALS: *LMP*

SERIAL NO: **No: 100255**

SAMPLER (Signature): *[Signature]*

SAMPLE ID	Date	Time	Lab Sample No		TYPE	ANALYSES					REMARKS	
			No of Containers	Weld		TPH (eq. air/dry)	BTEX (eq. air/dry)	VOCs (eq. air/dry)	Meth (eq. air/dry)	PH		
A4-12A	10/11/01	8:12	1	Y								
A4-9A	↓	9:02	↓	↓								
A4-13A	↓	10:44	↓	↓								
A4-5A	↓	10:26	↓	↓								
A4-10B	10/11/01	5:24	1	X								

SAMPLE RECEIPT:	Method of Shipment:	Requested by:	Relinquished by:
<input type="checkbox"/> Intact <input type="checkbox"/> Cold <input checked="" type="checkbox"/> On Ice <input type="checkbox"/> Ambient	<i>Hand Delivered</i>	<i>[Signature]</i>	<i>[Signature]</i>
Preservatives Contact?	Lab Report No: 0	(DATE)	(DATE)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	FAX CONFIRMATION TO:	(TIME)	(TIME)
ANALYTICAL LABORATORY:	<i>Bill [Signature]</i>	(SIGNATURE)	(SIGNATURE)
<i>CJT</i>	FAX RESULTS TO:	(PRINTED NAME)	(PRINTED NAME)
	<i>Bill [Signature]</i>	(COMPANY)	(COMPANY)
	SEND TO:	RECEIVED BY:	RECEIVED BY (LABORATORY)
	<i>Bill [Signature]</i>	(SIGNATURE)	(SIGNATURE)
	SEND TO:	(TIME)	(TIME)
	<i>Bill [Signature]</i>	(PRINTED NAME)	(PRINTED NAME)

TAT: *None*

100%: Metals CM141 RCRA LUFT 624 LUFT

8760 LUT 8240 LUT 8010 LUT 624 LUT

Please follow up on accuracy

NO DISADVANTAGE

Sample added in field

Please fax results to Bill [Signature] (USE) and Jane Anderson (Zubrick)

Preservation Contact
 Bill [Signature]

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

SAMPLE COLLECTOR DLFR LEVINE / FRICKE	1900 Powell Street, 12th Floor Emeryville, California 94608-1627 (510) 652-4500 Fax (510) 652-2246	PROJECT NO: 1545.00.078	SECTION NO:	DATE: 10/11/01	SERIAL NO: No 100254
PROJECT NAME: Zeneca		SAMPLER (SQUID #): 100254		SAMPLER INITIALS: GM	
SAMPLE ANALYSES					

Sample ID	Date	Time	Lab Sample No	No of Containers	TYPE	ANALYSES			REMARKS	
						VOCs (EPA 8160)	TRG (EPA 8130)	TRG (EPA 8130)		
AR-2 11-12'	10/11/01	1:18	1	1	Soil				<div style="border: 1px solid black; padding: 5px; display: inline-block;"> Preservation Complete <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A </div>	
AR-3 9-10'	10/11/01	1:50	1	1	Soil					

SAMPLE RECEIPT <input type="checkbox"/> Intact <input type="checkbox"/> Cold <input checked="" type="checkbox"/> On Ice <input type="checkbox"/> Ambient Preserve/Verify Contact?	COOLER TEMP Cooler No	METHOD OF PRESERVATION LAB REPORT NO	RECEIVED BY (SIGNATURE) RECEIVED BY (DATE)
ANALYTICAL LABORATORY:	FAX/CRC CONFIRMATION TO SEND COPY TO	RECEIVED BY (SIGNATURE) RECEIVED BY (DATE)	RECEIVED BY (LABORATORY) RECEIVED BY (DATE)

RECEIVED TO (PRINTED NAME) RECEIVED TO (DATE)	RECEIVED BY (SIGNATURE) RECEIVED BY (DATE)	RECEIVED BY (LABORATORY) RECEIVED BY (DATE)	RECEIVED BY (DATE) RECEIVED BY (TIME)
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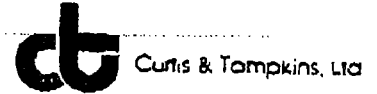


Lab #:	154699	Location:	Zeneca
Client:	LFR Levine Fricke	Analysis:	EPA 9040B
Project#:	7545.00.D78		
Analysate:	pH	Batch#:	67097
Matrix:	Water	Sampled:	10/11/01
Units:	SU	Received:	10/11/01
Filter Fac:	1.000	Analyzed:	10/12/01



Sample ID	Lab ID	Result	Limit
4-12A	154699-001	6.3	1.0
4-9A	154699-002	7.3	1.0
4-13A	154699-003	7.0	1.0
4-5A	154699-004	6.5	1.0
4-16B	154699-005	6.8	1.0

= Reporting Limit
Page 1 of 1



Lab #:	154699	Location:	Keneca
Client:	LFR Levine Fricke	Analysis:	EPA 9040B
Project#:	7545.00.078		
Analyte:	pH	Units:	SU
Field ID:	A4-16B	Diln Fac:	1.000
Type:	SDDP	Batch#:	67097
MSS Lab ID:	154699-005	Sampled:	10/11/01
Lab ID:	QC158741	Received:	10/11/01
Matrix:	Water	Analyzed:	10/12/01

6.840	6.850	1.0	0	20
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L= Reporting Limit
Relative Percent Difference
Page 1 of 1



Lab #:	154699	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.078		
Field ID:	A4-12A	Sampled:	10/11/01
Lab ID:	154699-001	Received:	10/11/01
Matrix:	Filtrate	Analyzed:	10/17/01
Units:	ug/L		

Element	Concentration	Units	Recovery	Lab #	Date	Method
Antimony	ND	60	1.000	67149	10/16/01	EPA 6010B
Arsenic	18	5.0	1.000	67149	10/16/01	EPA 6010B
Barium	18	10	1.000	67149	10/16/01	EPA 6010B
Beryllium	ND	2.0	1.000	67149	10/16/01	EPA 6010B
Cadmium	6.6	5.0	1.000	67149	10/16/01	EPA 6010B
Chromium	ND	10	1.000	67149	10/16/01	EPA 6010B
Cobalt	110 J	20	1.000	67149	10/16/01	EPA 6010B
Copper	ND	10	1.000	67149	10/16/01	EPA 6010B
Lead	ND	3.0	1.000	67149	10/16/01	EPA 6010B
Mercury	ND	0.20	1.000	67176	10/17/01	EPA 7470A
Molybdenum	ND	20	1.000	67149	10/16/01	EPA 6010B
Nickel	150	20	1.000	67149	10/16/01	EPA 6010B
Selenium	5.6	5.0	1.000	67149	10/16/01	EPA 6010B
Silver	ND	5.0	1.000	67149	10/16/01	EPA 6010B
Sodium	22	5.0	1.000	67149	10/16/01	EPA 6010B
Titanium	ND	10	1.000	67149	10/16/01	EPA 6010B
Zinc	400	400	20.00	67149	10/16/01	EPA 6010B

Not Detected
 Reporting Limit
 Page 1 of 1



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Lab #:	154699	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.078		
Field ID:	A4-9A	Diln Fac:	1.000
Lab ID:	154699-002	Sampled:	10/11/01
Matrix:	Filtrate	Received:	10/11/01
Units:	ug/L	Analyzed:	10/17/01

Element	Result	Units	Lab #	Date	Method
Antimony	ND	60	67149	10/16/01	EPA 6010B
Arsenic	ND	5.0	67149	10/16/01	EPA 6010B
Barium	18	10	67149	10/16/01	EPA 6010B
Beryllium	ND	2.0	67149	10/16/01	EPA 6010B
Cadmium	ND	5.0	67149	10/16/01	EPA 6010B
Chromium	ND	10	67149	10/16/01	EPA 6010B
Cobalt	UT	20	67149	10/16/01	EPA 6010B
Copper	ND	10	67149	10/16/01	EPA 6010B
Lead	ND	3.0	67149	10/16/01	EPA 6010B
Mercury	ND	0.20	67176	10/17/01	EPA 7470A
Molybdenum	ND	20	67149	10/16/01	EPA 6010B
Nickel	ND	20	67149	10/16/01	EPA 6010B
Selenium	ND	5.0	67149	10/16/01	EPA 6010B
Silver	UT	5.0	67149	10/16/01	EPA 6010B
Sodium	ND	5.0	67149	10/16/01	EPA 6010B
Titanium	ND	10	67149	10/16/01	EPA 6010B
Zinc	ND	20	67149	10/16/01	EPA 6010B

Not Detected
 Reporting Limit
 Page 1 of 1



Lab #:	154699	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.078		
Field ID:	A4-13A	Diln Fac:	1.000
Lab ID:	154699-003	Sampled:	10/11/01
Matrix:	Filtrate	Received:	10/11/01
Units:	ug/L	Analyzed:	10/17/01

Element	Result	Reporting Limit	Lab ID	Date	Preparation	EPA Method
Antimony	ND		60	67149	10/16/01	EPA 6010B
Arsenic	15	15	5.0	67149	10/16/01	EPA 6010B
Barium	14	14	10	67149	10/16/01	EPA 6010B
Beryllium	ND		2.0	67149	10/16/01	EPA 6010B
Cadmium	ND		5.0	67149	10/16/01	EPA 6010B
Chromium	ND		10	67149	10/16/01	EPA 6010B
Cobalt	ND	UJ	20	67149	10/16/01	EPA 6010B
Copper	ND		10	67149	10/16/01	EPA 6010B
Lead	ND		3.0	67149	10/16/01	EPA 6010B
Mercury	ND		0.20	67176	10/17/01	EPA 7470A
Molybdenum	ND		20	67149	10/16/01	EPA 6010B
Nickel	22	22	20	67149	10/16/01	EPA 6010B
Selenium	8.2	8.2	5.0	67149	10/16/01	EPA 6010B
Silver	ND	UJ	5.0	67149	10/16/01	EPA 6010B
Sodium	10	10	5.0	67149	10/16/01	EPA 6010B
Titanium	ND		10	67149	10/16/01	EPA 6010B
Zinc	600	600	20	67149	10/16/01	EPA 6010B

Not Detected
 L- Reporting Limit
 Page 1 of 1



Lab #:	154699	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.078		
Field ID:	A4-5A	Diln Fac:	1.000
Lab ID:	154699-004	Sampled:	10/11/01
Matrix:	Filtrate	Received:	10/11/01
Units:	ug/L	Analyzed:	10/17/01

Element	Concentration	RL	Lab #	Date	Method
Antimony	ND	60	67149	10/16/01	EPA 6010B
Arsenic	16	5.0	67149	10/16/01	EPA 6010B
Barium	13	10	67149	10/16/01	EPA 6010B
Beryllium	ND	2.0	67149	10/16/01	EPA 6010B
Cadmium	ND	5.0	67149	10/16/01	EPA 6010B
Chromium	ND	10	67149	10/16/01	EPA 6010B
Cobalt	ND <i>UJ</i>	20	67149	10/16/01	EPA 6010B
Copper	ND	10	67149	10/16/01	EPA 6010B
Lead	ND	3.0	67149	10/16/01	EPA 6010B
Mercury	ND	0.20	67176	10/17/01	EPA 7470A
Molybdenum	ND	20	67149	10/16/01	EPA 6010B
Nickel	21	20	67149	10/16/01	EPA 6010B
Selenium	8.3	5.0	67149	10/16/01	EPA 6010B
Silver	ND <i>UJ</i>	5.0	67149	10/16/01	EPA 6010B
Thallium	13	5.0	67149	10/16/01	EPA 6010B
Vanadium	ND	10	67149	10/16/01	EPA 6010B
Zinc	600	20	67149	10/16/01	EPA 6010B

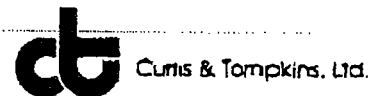
N Not Detected
 RL Reporting Limit
 Page 1 of 1



Curtis & Tompkins, Ltd

Lab #:	154699	Location:	Zeneca
Client:	LPR Levine Fricke	Prep:	METHOD
Project#:	7545.00.078		
Field ID:	A4-16B	Diln Fac:	1.000
Lab ID:	154699-005	Sampled:	10/11/01
Matrix:	Filtrate	Received:	10/11/01
Units:	ug/L	Analyzed:	10/17/01

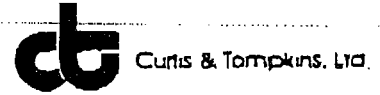
Element	Result	Unit	Lab #	Date	Method
Antimony	ND		60	67149	10/16/01 EPA 6010B
Arsenic	15		5.0	67149	10/16/01 EPA 6010B
Barium	150		10	67149	10/16/01 EPA 6010B
Beryllium	ND		2.0	67149	10/16/01 EPA 6010B
Cadmium	ND		5.0	67149	10/16/01 EPA 6010B
Chromium	ND		10	67149	10/16/01 EPA 6010B
Cobalt	ND	UJ	20	67149	10/16/01 EPA 6010B
Copper	ND		10	67149	10/16/01 EPA 6010B
Lead	ND		3.0	67149	10/16/01 EPA 6010B
Mercury	0.39		0.20	67176	10/17/01 EPA 7470A
Molybdenum	ND		20	67149	10/16/01 EPA 6010B
Nickel	ND		20	67149	10/16/01 EPA 6010B
Selenium	ND		5.0	67149	10/16/01 EPA 6010B
Silver	ND	UJ	5.0	67149	10/16/01 EPA 6010B
Sodium	ND		5.0	67149	10/16/01 EPA 6010B
Vanadium	ND		10	67149	10/16/01 EPA 6010B
Zinc	270		20	67149	10/16/01 EPA 6010B



b #:	154699	Location:	Zeneca
ient:	LFR Levine Fricke	Prep:	METHOD
roject#:	7545.00.078	Analysis:	EPA 6010B
pe:	BLANK	Diln Fac:	1.000
b ID:	QC158949	Batch#:	67149
rix:	Filtrate	Prepared:	10/16/01
its:	ug/L	Analyzed:	10/17/01

Antimony	ND	60
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	ND	5.0
Chromium	ND	10
Cobalt	ND	20
Copper	ND	10
Lead	ND	3.0
Lead	ND	20
Nickel	ND	20
Mercury	ND	5.0
Molybdenum	ND	5.0
Niobium	ND	5.0
Vanadium	ND	10
Zinc	ND	20

Not Detected
Reporting Limit
Page 1 of 1



[REDACTED]			
Sample #:	154699	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Object#:	7545.00.078	Analysis:	EPA 7470A
Matrix:	Mercury	Diln Fac:	1.000
Sample:	BLANK	Batch#:	67176
Sample ID:	QC159046	Prepared:	10/17/01
Matrix:	Water	Analyzed:	10/17/01
Unit:	ug/L		
[REDACTED]			
ND	0.20		

. Not Detected
= Reporting Limit
Page 1 of 1



Sample #:	154699	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project #:	7545.00.078	Analysis:	EPA 6010B
Matrix:	Filtrate	Batch#:	67149
Units:	ug/L	Prepared:	10/16/01
Concn in Sac:	1.000	Analyzed:	10/17/01

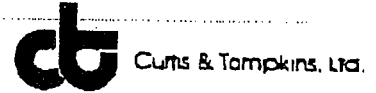
Sample: BS Lab ID: QC158950

Element	Concn	Concn	Concn	Concn
Antimony	500.0	445.0	89	75-123
Arsenic	100.0	98.70	99	80-120
Barium	2,000	1,870	94	80-116
Beryllium	50.00	47.30	95	80-116
Bismuth	50.00	46.50	93	80-126
Bromine	200.0	187.0	94	80-113
Calcium	500.0	455.0	91	80-112
Copper	250.0	234.0	94	80-114
Cadmium	100.0	92.70	93	78-120
Chromium	400.0	382.0	96	80-114
Cobalt	500.0	452.0	92	80-116
Chlorine	100.0	94.90	95	79-120
Silver	50.00	47.90	96	80-120
Sodium	100.0	90.50	91	80-119
Magnesium	500.0	476.0	95	80-111
Zinc	500.0	471.0	94	72-126

Sample: BSD Lab ID: QC158951

Element	Concn	Concn	Concn	Concn	Concn
Antimony	500.0	490.0	98	75-123	10
Arsenic	100.0	98.30	98	80-120	0
Barium	2,000	1,890	95	80-116	1
Beryllium	50.00	46.80	94	80-116	1
Bismuth	50.00	45.90	92	80-126	2
Bromine	200.0	185.0	93	80-113	1
Calcium	500.0	451.0	90	80-112	1
Copper	250.0	231.0	92	80-114	1
Cadmium	100.0	93.80	94	78-120	1
Chromium	400.0	389.0	97	80-114	2
Cobalt	500.0	458.0	92	80-116	1
Chlorine	100.0	94.80	95	79-120	0
Silver	50.00	47.30	95	80-120	1
Sodium	100.0	91.80	92	80-119	1
Magnesium	500.0	471.0	94	80-111	1
Zinc	500.0	468.0	94	72-126	1

RPD = Relative Percent Difference
 Page 1 of 1



b #:	154699	Location:	Zeneca
ient:	LFR Levine Fricke	Prep:	METHOD
oject#:	7545.00.078	Analysis:	EPA 6010B
eld ID:	A4-12A	Batch#:	67149
pe:	SDUP	Sampled:	10/11/01
S Lab ID:	154699-001	Received:	10/11/01
b ID:	QC158952	Prepared:	10/16/01
rix:	Filtrate	Analyzed:	10/17/01
its:	ug/L		

imony	<60.00	ND		60	NC	29	1.000
enic	18.10		15.10	5.0	18	42	1.000
xium	18.00		15.90	10	12	20	1.000
ryllium	<2.000	ND		2.0	NC	20	1.000
dmium	6.580		6.140	5.0	7	25	1.000
romium	<10.00	ND		10	NC	20	1.000
balt	107.0		99.20	20	8	20	1.000
pper	<10.00	ND		10	NC	20	1.000
ad	<3.000	ND		3.0	NC	29	1.000
lybdenum	<20.00	ND		20	NC	20	1.000
ckel	147.0		137.0	20	7	20	1.000
mium	9.210		8.560	5.0	7	40	1.000
ver	<5.000	ND		5.0	NC	30	1.000
allium	22.00		19.20	5.0	14	41	1.000
nadium	<10.00	ND		10	NC	41	1.000
nc	5,840		7,240	400	21	33	20.00

= Not Calculated
 = Not Detected
 Reporting Limit
 - Relative Percent Difference
 (e 1 of 1



Curtis & Tompkins, Ltd.

b #:	154699	Location:	Zeneca
ient:	LFR Levine Fricke	Prep:	METHOD
object#:	7545.00.078	Analysis:	EPA 6010B
eld ID:	A4-12A	Diln Fac:	1.000
pe:	SSPIKE	Batch#:	67149
S Lab ID:	154699-001	Sampled:	10/11/01
b ID:	QC158953	Received:	10/11/01
rix:	Filtrate	Prepared:	10/16/01
its:	ug/L	Analyzed:	10/17/01

Element	Concentration	Limit	Concentration	Limit	Concentration	Limit
timony	26.40	500.0	445.0	84	64-128	
enic	18.10	100.0	101.0	83	65-131	
rium	18.00	2,000	1,570	78	75-120	
ryllium	<0.2500	50.00	37.60	75	71-124	
dmium	6.580	50.00	42.80	72	70-127	
romium	<1.100	200.0	146.0	73	70-124	
balt	107.0	500.0	461.0	71	73-122	
pper	<0.6200	250.0	195.0	78	74-122	
ad	2.030	100.0	79.80	78	66-128	
lybdenum	4.880	400.0	337.0	83	72-122	
ckel	147.0	500.0	495.0	70	70-126	
inium	9.210	100.0	92.10	83	65-132	
ver	<0.6200	50.00	29.80	60	72-125	
allium	22.00	100.0	93.70	72	58-134	
nadium	0.6510	500.0	369.0	78	58-134	

value outside of QC limits; see narrative
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Lab #:	154699	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	7545.00.078	Analysis:	BPA 7470A
Analyte:	Mercury	Batch#:	67176
Matrix:	Water	Prepared:	10/17/01
Units:	ug/L	Analyzed:	10/17/01
Inj Fac:	1.000		

	QC159047	5.000	5.520	110	80-116		
ID	QC159048	5.000	5.510	110	80-116	0	20

RD = Relative Percent Difference
Page 1 of 1



Curtis & Tompkins, Ltd.

Lab #: 154699
 Client: LFR Levine Fricke
 Project#: 7545.00.078
 Analyte: Mercury
 Field ID: ZZZZZZZZZZ
 YSS Lab ID: 154792-002
 Matrix: Water
 Units: ug/L
 Diln Fac: 1.000

Location: Zeneca
 Prep: XRFHOD
 Analyte: XPA 7470A
 Batch#: 67176
 Sampled: 10/16/01
 Received: 10/16/01
 Prepared: 10/17/01
 Analyzed: 10/17/01

MS	QC159049	<0.04600	5.000	109	80-114	22
MSD	QC159050	5.000	5.430	109	80-114	1

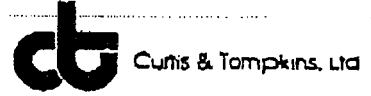
RPD= Relative Percent Difference
 Page 1 of 1



b #:	154699	Location:	Zeneca
ient:	LFR Levine Fricke	Prep:	METHOD
ject#:	7545.00.078	Analysis:	EPA 7470A
alyte:	Mercury	Diln Fac:	1.000
eld ID:	A4-SA	Batch#:	67176
pe:	SDUP	Sampled:	10/11/01
S Lab ID:	154699-004	Received:	10/11/01
b ID:	QC159051	Prepared:	10/17/01
trix:	Filtrate	Analyzed:	10/17/01
irs:	ug/L		

<0.2000	ND	0.20	NC	22
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= Not Calculated
= Not Detected
Reporting Limit
= Relative Percent Difference
Page 1 of 1



Sample #:	154699	Location:	Zeneca
Client:	LFR Levine Fricke	Prep:	METHOD
Project #:	7545.00.078	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	A4-5A	Batch#:	67176
Spec:	MS	Sampled:	10/11/01
Lab ID:	154699-004	Received:	10/11/01
Job ID:	QC159052	Prepared:	10/17/01
Matrix:	Filtrate	Analyzed:	10/17/01
Units:	ug/L		

<0.04600	5.000	5.250	105	80-114
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Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

ANALYTICAL REPORT

Prepared for:

URS Corporation
500 12th Street
Suite 200
Oakland, CA 94607

Date: 23-OCT-01
Lab Job Number: 154723
Project ID: 510996706700
Location: UCB-Richmond Field Sta.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: Tracy Bobic
Project Manager

Reviewed by: [Signature]
Operations Manager

This package may be reproduced only in its entirety.

Laboratory Numbers: 154723
Client: URS Corporation
Location: UCB-Richmond Field Sta.
Project ID: 510996706700

Sampled Date: 10/12/01
Received Date: 10/12/01

CASE NARRATIVE

This hardcopy data package contains sample and QC results for nine soil samples and five water samples, which were received from the site referenced above on October 12, 2001. The samples were received cold and intact. One soil sample was placed on hold upon receipt per the chain of custody. All results have been corrected for moisture.

Metals (EPA 6000/7000): Low silver sample spike recovery was observed for sample AR2 (CT# 154727-001). High selenium relative percent difference was observed for the sample duplicate of CT# 154723-002. The associated blank spike and blank spike duplicate recoveries and (RPDs) passed all criteria. For sample A4 -6-5.5 (CT# 154723-001), the matrix spike recovery for mercury is considered not meaningful (NM) as the sample concentration is four times greater than the spiked level. No other analytical problems were encountered.

General Chemistry: No analytical problems were encountered.

154723



500 12th Street, Suite 200
Oakland, CA 94607-4014
(510) 893-3600

Chain of Custody Record

PROJECT NO.		ANALYSES										Number of Containers	REMARKS	
SAMPLERS: (Signature)		Sample Matrix (Soil, Water, Air)	EPA Method	EPA Method	EPA Method	EPA Method	PP metals	pH	S260	S270				
DATE	TIME											SAMPLE NUMBER		
510996706700														
Bill Copeland														
10/12/01		A4-6-55	S					X	X					<p>RUSH</p> <p>Normal TAT 48 hr TAT</p> <p>* dissolved in groundwater pls filter within 24 hrs</p> <p>← may not be enough sample</p> <p>Results to Bill Copeland CO 574 3192</p>
		A4-6-7						X	X					
		A4-7-5.5						X	X					
		A4-7-9.5						X	X					
		A4-15-4						X	X					
		A4-15-6						X	X					
		A4-15-8.5						X	X					
		A4-14-4.5						X	X					
		A4-14-7						X	X					
	11:00	A4-6	W					X	X					
	11:20	A4-7						X	X					
	11:45	A4-15						X	X					
	12:15	PB11						X	X					
		A4-14	W					X	X					

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY: (Signature) Bill Copeland	DATE/TIME 10/12/01 11:40	RECEIVED BY: (Signature) [Signature]	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
METHOD OF SHIPMENT:	SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY (Signature)	DATE/TIME	

Percent Moisture Summary Report

Date: 15-OCT-01
 Batch: 67116
 Analyst: MLT

Sample	Method	Date	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
154694-007	CLP SOW 390	15-OCT-01	14.9945	20.716	19.8781	85	15
154694-008	CLP SOW 390	15-OCT-01	15.9411	22.2056	20.8417	78	22
154694-009	CLP SOW 390	15-OCT-01	15.3435	20.4926	19.5419	82	18
154694-010	CLP SOW 390	15-OCT-01	15.238	20.5251	18.3028	58	42
154694-011	CLP SOW 390	15-OCT-01	15.006	20.6374	18.5488	63	37
154694-012	CLP SOW 390	15-OCT-01	15.674	20.9606	19.5378	73	27
154694-013	CLP SOW 390	15-OCT-01	15.2629	20.4256	19.24	77	23
154694-014	CLP SOW 390	15-OCT-01	15.6721	21.0714	19.6605	74	26
154694-015	CLP SOW 390	15-OCT-01	15.8061	22.0426	21.001	83	17
154723-001	CLP SOW 390	15-OCT-01	15.0668	20.9797	19.8901	82	18
154723-002	CLP SOW 390	15-OCT-01	15.988	20.9163	20.0931	83	17
154723-003	CLP SOW 390	15-OCT-01	15.3642	20.3718	18.9726	72	28
154723-004	CLP SOW 390	15-OCT-01	15.0951	20.7515	19.8067	83	17
154723-005	CLP SOW 390	15-OCT-01	15.5898	21.0422	19.6434	74	26
154723-006	CLP SOW 390	15-OCT-01	15.9942	20.4625	19.5729	80	20
154723-008	CLP SOW 390	15-OCT-01	15.0759	21.4455	19.7714	74	26
154723-009	CLP SOW 390	15-OCT-01	15.9781	20.9402	20.0603	82	18
154728-001	CLP SOW 390	15-OCT-01	15.731	21.3079	20.6583	88	12
154728-002	CLP SOW 390	15-OCT-01	15.8095	21.0313	20.5203	90	10
QC158838	CLP SOW 390	15-OCT-01	15.5489	20.3556	19.6928	86	14
of 154694-007						RPD: 1.0%	6.0%

Priority Pollutant Metals

Lab #:	154723	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700		
Field ID:	A4-6	Diln Fac:	1.000
Lab ID:	154723-010	Sampled:	10/12/01
Matrix:	Filtrate	Received:	10/12/01
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	60	67084	10/12/01	10/16/01	EPA 6010B
Arsenic	ND	5.0	67084	10/12/01	10/16/01	EPA 6010B
Beryllium	ND	2.0	67084	10/12/01	10/16/01	EPA 6010B
Cadmium	ND	5.0	67084	10/12/01	10/16/01	EPA 6010B
Chromium	ND	10	67084	10/12/01	10/16/01	EPA 6010B
Copper	14	10	67084	10/12/01	10/16/01	EPA 6010B
Lead	ND	3.0	67084	10/12/01	10/16/01	EPA 6010B
Mercury	ND	0.20	67111	10/15/01	10/15/01	EPA 7470A
Nickel	ND	20	67084	10/12/01	10/16/01	EPA 6010B
Selenium	ND	5.0	67084	10/12/01	10/16/01	EPA 6010B
Silver	ND <i>US</i>	5.0	67084	10/12/01	10/16/01	EPA 6010B
Thallium	ND	5.0	67084	10/12/01	10/16/01	EPA 6010B
Zinc	ND	20	67084	10/12/01	10/16/01	EPA 6010B

Priority Pollutant Metals

Lab #:	154723	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700		
Field ID:	A4-7	Diln Fac:	1.000
Lab ID:	154723-011	Sampled:	10/12/01
Matrix:	Filtrate	Received:	10/12/01
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	60	67084	10/12/01	10/16/01	EPA 6010B
Arsenic	58	5.0	67084	10/12/01	10/16/01	EPA 6010B
Beryllium	ND	2.0	67084	10/12/01	10/16/01	EPA 6010B
Cadmium	ND	5.0	67084	10/12/01	10/16/01	EPA 6010B
Chromium	ND	10	67084	10/12/01	10/16/01	EPA 6010B
Copper	ND	10	67084	10/12/01	10/16/01	EPA 6010B
Lead	ND	3.0	67084	10/12/01	10/16/01	EPA 6010B
Mercury	ND	0.20	67111	10/15/01	10/15/01	EPA 7470A
Nickel	ND	20	67084	10/12/01	10/16/01	EPA 6010B
Selenium	10	5.0	67084	10/12/01	10/16/01	EPA 6010B
Silver	ND <i>WJ</i>	5.0	67084	10/12/01	10/16/01	EPA 6010B
Thallium	ND	5.0	67084	10/12/01	10/16/01	EPA 6010B
Zinc	60	20	67084	10/12/01	10/16/01	EPA 6010B

Priority Pollutant Metals

Lab #:	154723	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700		
Field ID:	A4-15	Diln Fac:	1.000
Lab ID:	154723-012	Sampled:	10/12/01
Matrix:	Filtrate	Received:	10/12/01
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	60	67084	10/12/01	10/16/01	EPA 6010B
Arsenic	8.9	5.0	67084	10/12/01	10/16/01	EPA 6010B
Beryllium	ND	2.0	67084	10/12/01	10/16/01	EPA 6010B
Cadmium	ND	5.0	67084	10/12/01	10/16/01	EPA 6010B
Chromium	ND	10	67084	10/12/01	10/16/01	EPA 6010B
Copper	ND	10	67084	10/12/01	10/16/01	EPA 6010B
Lead	ND	3.0	67084	10/12/01	10/16/01	EPA 6010B
Mercury	ND	0.20	67111	10/15/01	10/15/01	EPA 7470A
Nickel	ND	20	67084	10/12/01	10/16/01	EPA 6010B
Selenium	ND	5.0	67084	10/12/01	10/16/01	EPA 6010B
Silver	ND <i>WJ</i>	5.0	67084	10/12/01	10/16/01	EPA 6010B
Thallium	ND	5.0	67084	10/12/01	10/16/01	EPA 6010B
Zinc	54	20	67084	10/12/01	10/16/01	EPA 6010B

Priority Pollutant Metals

Lab #:	154723	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700		
Field ID:	PB11	Diln Fac:	1.000
Lab ID:	154723-013	Sampled:	10/12/01
Matrix:	Filtrate	Received:	10/12/01
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	60	67084	10/12/01	10/16/01	EPA 6010B
Arsenic	31	5.0	67084	10/12/01	10/16/01	EPA 6010B
Beryllium	ND	2.0	67084	10/12/01	10/16/01	EPA 6010B
Cadmium	ND	5.0	67084	10/12/01	10/16/01	EPA 6010B
Chromium	ND	10	67084	10/12/01	10/16/01	EPA 6010B
Copper	34	10	67084	10/12/01	10/16/01	EPA 6010B
Lead	3.1	3.0	67084	10/12/01	10/16/01	EPA 6010B
Mercury	ND	0.20	67111	10/15/01	10/15/01	EPA 7470A
Nickel	180	20	67084	10/12/01	10/16/01	EPA 6010B
Selenium	11	5.0	67084	10/12/01	10/16/01	EPA 6010B
Silver	ND <i>US</i>	5.0	67084	10/12/01	10/16/01	EPA 6010B
Thallium	27	5.0	67084	10/12/01	10/16/01	EPA 6010B
Zinc	29	20	67084	10/12/01	10/16/01	EPA 6010B

Priority Pollutant Metals

Lab #:	154723	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700		
Field ID:	A4-14	Units:	ug/L
Lab ID:	154723-014	Sampled:	10/12/01
Matrix:	Filtrate	Received:	10/12/01

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	60	1.000	67084	10/12/01	10/16/01	EPA 6010B
Arsenic	95	5.0	1.000	67084	10/12/01	10/16/01	EPA 6010B
Beryllium	ND	2.0	1.000	67084	10/12/01	10/16/01	EPA 6010B
Cadmium	150	5.0	1.000	67084	10/12/01	10/16/01	EPA 6010B
Chromium	ND	10	1.000	67084	10/12/01	10/16/01	EPA 6010B
Copper	ND	10	1.000	67084	10/12/01	10/16/01	EPA 6010B
Lead	8.3	3.0	1.000	67084	10/12/01	10/16/01	EPA 6010B
Mercury	ND	0.20	1.000	67111	10/15/01	10/15/01	EPA 7470A
Nickel	530	20	1.000	67084	10/12/01	10/16/01	EPA 6010B
Selenium	38	5.0	1.000	67084	10/12/01	10/16/01	EPA 6010B
Silver	ND <i>US</i>	5.0	1.000	67084	10/12/01	10/16/01	EPA 6010B
Thallium	130	5.0	1.000	67084	10/12/01	10/16/01	EPA 6010B
Zinc	27,000	400	20.00	67084	10/12/01	10/16/01	EPA 6010B

Priority Pollutant Metals

Lab #:	154723	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC158686	Batch#:	67084
Matrix:	Filtrate	Prepared:	10/12/01
Units:	ug/L	Analyzed:	10/16/01

Analyte	Result	RL
Antimony	ND	60
Arsenic	ND	5.0
Beryllium	ND	2.0
Cadmium	ND	5.0
Chromium	ND	10
Copper	ND	10
Lead	ND	3.0
Nickel	ND	20
Selenium	ND	5.0
Silver	ND	5.0
Thallium	ND	5.0
Zinc	ND	20

Priority Pollutant Metals			
Lab #:	154723	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	67111
Lab ID:	QC158790	Prepared:	10/15/01
Matrix:	Filtrate	Analyzed:	10/15/01
Units:	ug/L		
Result	RL		
ND	0.20		

Priority Pollutant Metals

Lab #:	154723	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 6010B
Matrix:	Filtrate	Batch#:	67084
Units:	ug/L	Prepared:	10/12/01
Diln Fac:	1.000	Analyzed:	10/16/01

Type: BS Lab ID: QC158687

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	436.0	87	75-123
Arsenic	100.0	101.0	101	80-120
Beryllium	50.00	47.30	95	80-116
Cadmium	50.00	48.40	97	80-126
Chromium	200.0	190.0	95	80-113
Copper	250.0	234.0	94	80-114
Lead	100.0	95.30	95	78-120
Nickel	500.0	478.0	96	80-116
Selenium	100.0	98.00	98	79-120
Silver	50.00	48.00	96	80-120
Thallium	100.0	95.90	96	80-119
Zinc	500.0	481.0	96	72-126

Type: BSD Lab ID: QC158688

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	479.0	96	75-123	9	21
Arsenic	100.0	99.90	100	80-120	1	20
Beryllium	50.00	47.50	95	80-116	0	20
Cadmium	50.00	48.50	97	80-126	0	20
Chromium	200.0	190.0	95	80-113	0	21
Copper	250.0	231.0	92	80-114	1	24
Lead	100.0	96.50	97	78-120	1	20
Nickel	500.0	480.0	96	80-116	0	23
Selenium	100.0	101.0	101	79-120	3	20
Silver	50.00	47.70	95	80-120	1	26
Thallium	100.0	97.00	97	80-119	1	20
Zinc	500.0	482.0	96	72-126	0	26

RPD= Relative Percent Difference

Priority Pollutant Metals

Lab #:	154723	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 6010B
Field ID:	AR2	Diln Fac:	1.000
Type:	SDUP	Batch#:	67084
MSS Lab ID:	154727-001	Sampled:	10/12/01
Lab ID:	QC158689	Received:	10/12/01
Matrix:	Filtrate	Prepared:	10/12/01
Units:	ug/L	Analyzed:	10/16/01

Analyte	MSS Result	Result	RL	RPD	Lim
Antimony	<60.00	ND	60	NC	29
Arsenic	104.0	109.0	5.0	5	42
Beryllium	<2.000	ND	2.0	NC	20
Cadmium	19.50	19.60	5.0	1	25
Chromium	<10.00	ND	10	NC	20
Copper	<10.00	ND	10	NC	20
Lead	<3.000	ND	3.0	NC	29
Nickel	124.0	127.0	20	2	20
Selenium	32.50	37.20	5.0	13	40
Silver	<5.000	ND	5.0	NC	30
Thallium	<5.000	ND	5.0	NC	41
Zinc	822.0	832.0	20	1	33

NC= Not Calculated

ND= Not Detected

RL= Reporting Limit

RPD= Relative Percent Difference

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Priority Pollutant Metals

Lab #:	154723	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 6010B
Field ID:	AR2	Diln Fac:	1.000
Type:	SSPIKE	Batch#:	67084
MSS Lab ID:	154727-001	Sampled:	10/12/01
Lab ID:	QC158690	Received:	10/12/01
Matrix:	Filtrate	Prepared:	10/12/01
Units:	ug/L	Analyzed:	10/16/01

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	58.80	500.0	514.0	91	64-128
Arsenic	104.0	100.0	207.0	103	65-131
Beryllium	0.7750	50.00	44.70	88	71-124
Cadmium	19.50	50.00	64.20	89	70-127
Chromium	<1.100	200.0	174.0	87	70-124
Copper	<0.6200	250.0	228.0	91	74-122
Lead	2.150	100.0	91.40	89	66-128
Nickel	124.0	500.0	569.0	89	70-126
Selenium	32.50	100.0	126.0	94	65-132
Silver	<0.6200	50.00	29.80	60 *	72-125
Thallium	<4.100	100.0	91.70	92	58-134
Zinc	822.0	500.0	1,290	94	69-129

Priority Pollutant Metals			
Lab #:	154723	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	67111
Matrix:	Filtrate	Prepared:	10/15/01
Units:	ug/L	Analyzed:	10/15/01
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC158791	5.000	4.310	86	80-116		
BSD	QC158792	5.000	4.300	86	80-116	0	20

Priority Pollutant Metals			
Lab #:	154723	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	A4-7	Batch#:	67111
Type:	SDUP	Sampled:	10/12/01
MSS Lab ID:	154723-011	Received:	10/12/01
Lab ID:	QC158793	Prepared:	10/15/01
Matrix:	Filtrate	Analyzed:	10/15/01
Units:	ug/L		

MSS Result	Result	RL	RPD	Lim
<0.2000	ND	0.20	NC	22

NC= Not Calculated
 ND= Not Detected
 RL= Reporting Limit
 RPD= Relative Percent Difference
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Priority Pollutant Metals

Lab #:	154723	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	A4-7	Batch#:	67111
Type:	MS	Sampled:	10/12/01
MSS Lab ID:	154723-011	Received:	10/12/01
Lab ID:	QC158794	Prepared:	10/15/01
Matrix:	Filtrate	Analyzed:	10/15/01
Units:	ug/L		

MSS Result	Spiked	Result	%REC	Limits
0.05000	5.000	4.970	98	80-114

Priority Pollutant Metals			
Lab #:	154723	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	A4-6-5.5	Basis:	dry
Lab ID:	154723-001	Sampled:	10/12/01
Matrix:	Soil	Received:	10/12/01
Units:	mg/Kg	Analyzed:	10/16/01

Moisture: 18%

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Prep	Analysis
Antimony	ND	3.5	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Arsenic	64	0.29	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Beryllium	0.12	0.12	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Cadmium	5.0	0.29	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Chromium	11	0.58	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Copper	680	0.58	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Lead	160	0.17	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Mercury	57	4.2	200.0	67143	10/16/01	METHOD	EPA 7471
Nickel	34	1.2	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Selenium	1.2	0.29	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Silver	1.9	0.29	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Thallium	ND	0.29	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Zinc	590	120	100.0	67083	10/12/01	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	154723	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	A4-6-7	Diln Fac:	1.000
Lab ID:	154723-002	Sampled:	10/12/01
Matrix:	Soil	Received:	10/12/01
Units:	mg/Kg	Analyzed:	10/16/01
Basis:	dry		

Moisture: 17%

Analyte	Result	RL	Batch#	Prepared	Prep	Analysis
Antimony	ND	3.5	67083	10/12/01	EPA 3050	EPA 6010B
Arsenic	3.5	0.29	67083	10/12/01	EPA 3050	EPA 6010B
Beryllium	0.39	0.12	67083	10/12/01	EPA 3050	EPA 6010B
Cadmium	1.6	0.29	67083	10/12/01	EPA 3050	EPA 6010B
Chromium	28	0.58	67083	10/12/01	EPA 3050	EPA 6010B
Copper	21	0.58	67083	10/12/01	EPA 3050	EPA 6010B
Lead	5.9	0.17	67083	10/12/01	EPA 3050	EPA 6010B
Mercury	0.22	0.020	67143	10/16/01	METHOD	EPA 7471
Nickel	46	1.2	67083	10/12/01	EPA 3050	EPA 6010B
Selenium	0.61	0.29	67083	10/12/01	EPA 3050	EPA 6010B
Silver	ND	0.29	67083	10/12/01	EPA 3050	EPA 6010B
Thallium	ND	0.29	67083	10/12/01	EPA 3050	EPA 6010B
Zinc	36	1.2	67083	10/12/01	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	154723	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	A4-7-5.5	Basis:	dry
Lab ID:	154723-003	Sampled:	10/12/01
Matrix:	Soil	Received:	10/12/01
Units:	mg/Kg	Analyzed:	10/16/01

Moisture: 28%

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Prep	Analysis
Antimony	ND	4.1	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Arsenic	57	0.34	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Beryllium	ND	0.14	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Cadmium	4.1	0.34	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Chromium	0.88	0.68	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Copper	430	0.68	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Lead	91	0.20	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Mercury	62	4.3	200.0	67143	10/16/01	METHOD	EPA 7471
Nickel	18	1.4	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Selenium	1.3	0.34	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Silver	1.6	0.34	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Thallium	ND	0.34	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Zinc	220	1.4	1.000	67083	10/12/01	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	154723	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	A4-7-9.5	Diln Fac:	1.000
Lab ID:	154723-004	Sampled:	10/12/01
Matrix:	Soil	Received:	10/12/01
Units:	mg/Kg	Analyzed:	10/16/01
Basis:	dry		

Moisture: 17%

Analyte	Result	RL	Batch#	Prepared	Prep	Analysis
Antimony	ND	3.5	67083	10/12/01	EPA 3050	EPA 6010B
Arsenic	3.1	0.29	67083	10/12/01	EPA 3050	EPA 6010B
Beryllium	0.17	0.12	67083	10/12/01	EPA 3050	EPA 6010B
Cadmium	1.2	0.29	67083	10/12/01	EPA 3050	EPA 6010B
Chromium	22	0.59	67083	10/12/01	EPA 3050	EPA 6010B
Copper	35	0.59	67083	10/12/01	EPA 3050	EPA 6010B
Lead	9.8	0.18	67083	10/12/01	EPA 3050	EPA 6010B
Mercury	0.44	0.020	67143	10/16/01	METHOD	EPA 7471
Nickel	29	1.2	67083	10/12/01	EPA 3050	EPA 6010B
Selenium	ND	0.29	67083	10/12/01	EPA 3050	EPA 6010B
Silver	ND	0.29	67083	10/12/01	EPA 3050	EPA 6010B
Thallium	ND	0.29	67083	10/12/01	EPA 3050	EPA 6010B
Zinc	40	1.2	67083	10/12/01	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	154723	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	A4-15-4	Basis:	dry
Lab ID:	154723-005	Sampled:	10/12/01
Matrix:	Soil	Received:	10/12/01
Units:	mg/Kg	Analyzed:	10/16/01

Moisture: 26%

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Prep	Analysis
Antimony	ND	3.9	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Arsenic	57	0.33	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Beryllium	ND	0.13	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Cadmium	13	0.33	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Chromium	1.8	0.65	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Copper	2,700	65	100.0	67083	10/12/01	EPA 3050	EPA 6010B
Lead	82	0.20	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Mercury	0.82	0.022	1.000	67143	10/16/01	METHOD	EPA 7471
Nickel	56	1.3	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Selenium	7.2	0.33	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Silver	12	0.33	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Thallium	ND	0.33	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Zinc	2,300	130	100.0	67083	10/12/01	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	154723	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	A4-15-6	Basis:	dry
Lab ID:	154723-006	Sampled:	10/12/01
Matrix:	Soil	Received:	10/12/01
Units:	mg/Kg	Analyzed:	10/16/01

Moisture: 20%

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Prep	Analysis
Antimony	ND	3.5	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Arsenic	11	0.29	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Beryllium	0.14	0.12	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Cadmium	2.0	0.29	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Chromium	24	0.58	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Copper	3,800	58	100.0	67083	10/12/01	EPA 3050	EPA 6010B
Lead	180	0.17	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Mercury	0.33	0.022	1.000	67143	10/16/01	METHOD	EPA 7471
Nickel	20	1.2	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Selenium	0.81	0.29	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Silver	0.35	0.29	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Thallium	ND	0.29	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Zinc	170	1.2	1.000	67083	10/12/01	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	154723	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	A4-14-4.5	Basis:	dry
Lab ID:	154723-008	Sampled:	10/12/01
Matrix:	Soil	Received:	10/12/01
Units:	mg/Kg	Analyzed:	10/16/01

Moisture: 26%

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Prep	Analysis
Antimony	ND	3.4	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Arsenic	49	0.28	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Beryllium	ND	0.11	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Cadmium	29	0.28	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Chromium	2.0	0.57	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Copper	2,300	57	100.0	67083	10/12/01	EPA 3050	EPA 6010B
Lead	62	0.17	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Mercury	0.63	0.023	1.000	67143	10/16/01	METHOD	EPA 7471
Nickel	29	1.1	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Selenium	1.8	0.28	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Silver	9.2	0.28	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Thallium	ND	0.28	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Zinc	2,900	110	100.0	67083	10/12/01	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	154723	Project#:	510996706700
Client:	URS Corporation	Location:	UCB-Richmond Field Sta.
Field ID:	A4-14-7	Basis:	dry
Lab ID:	154723-009	Sampled:	10/12/01
Matrix:	Soil	Received:	10/12/01
Units:	mg/Kg	Analyzed:	10/16/01

Moisture: 18%

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Prep	Analysis
Antimony	ND	3.5	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Arsenic	1.6	0.29	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Beryllium	0.29	0.12	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Cadmium	1.8	0.29	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Chromium	20	0.58	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Copper	57	0.58	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Lead	3.1	0.18	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Mercury	0.063	0.021	1.000	67143	10/16/01	METHOD	EPA 7471
Nickel	30	1.2	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Selenium	ND	0.29	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Silver	ND	0.29	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Thallium	ND	0.29	1.000	67083	10/12/01	EPA 3050	EPA 6010B
Zinc	690	120	100.0	67083	10/12/01	EPA 3050	EPA 6010B

Priority Pollutant Metals

Lab #:	154723	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 3050
Project#:	510996706700	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC158681	Batch#:	67083
Matrix:	Soil	Prepared:	10/12/01
Units:	mg/Kg	Analyzed:	10/16/01
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Arsenic	ND	0.25
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Copper	ND	0.50
Lead	ND	0.15
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Zinc	ND	1.0

Priority Pollutant Metals

Lab #:	154723	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC158930	Batch#:	67143
Matrix:	Soil	Prepared:	10/16/01
Units:	mg/Kg	Analyzed:	10/16/01

Result	RL
ND	0.020

Priority Pollutant Metals

Lab #:	154723	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 3050
Project#:	510996706700	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	67083
Units:	mg/Kg	Prepared:	10/12/01
Basis:	as received	Analyzed:	10/16/01
Diln Fac:	1.000		

Type: BS Lab ID: QC158682

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	93.50	94	60-129
Arsenic	50.00	44.45	89	64-116
Beryllium	2.500	2.300	92	70-114
Cadmium	10.00	8.300	83	59-114
Chromium	100.0	90.00	90	68-111
Copper	12.50	11.60	93	67-114
Lead	100.0	86.50	87	66-110
Nickel	25.00	22.10	88	68-111
Selenium	50.00	41.65	83	61-110
Silver	10.00	9.000	90	57-116
Thallium	50.00	41.70	83	60-111
Zinc	25.00	21.50	86	57-119

Type: BSD Lab ID: QC158683

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	94.00	94	60-129	1	20
Arsenic	50.00	45.60	91	64-116	3	20
Beryllium	2.500	2.385	95	70-114	4	20
Cadmium	10.00	8.600	86	59-114	4	20
Chromium	100.0	92.50	93	68-111	3	20
Copper	12.50	11.75	94	67-114	1	20
Lead	100.0	89.00	89	66-110	3	20
Nickel	25.00	22.85	91	68-111	3	20
Selenium	50.00	42.10	84	61-110	1	20
Silver	10.00	9.150	92	57-116	2	20
Thallium	50.00	43.75	88	60-111	5	20
Zinc	25.00	22.10	88	57-119	3	20

RPD= Relative Percent Difference

Priority Pollutant Metals			
Lab #:	154723	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 3050
Project#:	510996706700	Analysis:	EPA 6010B
Field ID:	A4-6-7	Diln Fac:	1.000
Type:	SDUP	Batch#:	67083
MSS Lab ID:	154723-002	Sampled:	10/12/01
Lab ID:	QC158684	Received:	10/12/01
Matrix:	Soil	Prepared:	10/12/01
Units:	mg/Kg	Analyzed:	10/16/01
Basis:	dry		

Moisture: 17%

Analyte	MSS Result	Result	RL	RPD	Lim
Antimony	<3.459	ND	3.4	NC	46
Arsenic	3.459	3.854	0.29	11	36
Beryllium	0.3851	0.3769	0.11	2	25
Cadmium	1.614	1.702	0.29	5	27
Chromium	28.02	34.95	0.57	22	32
Copper	20.75	19.99	0.57	4	38
Lead	5.938	4.939	0.17	18	41
Nickel	45.71	38.43	1.1	17	35
Selenium	0.6053	0.3877	0.29	44 *	34
Silver	<0.2882	ND	0.29	NC	23
Thallium	<0.2882	ND	0.29	NC	36
Zinc	35.97	37.23	1.1	3	37

*= Value outside of QC limits; see narrative

NC= Not Calculated

ND= Not Detected

RL= Reporting Limit

RPD= Relative Percent Difference

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Priority Pollutant Metals

Lab #:	154723	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	EPA 3050
Project#:	510996706700	Analysis:	EPA 6010B
Field ID:	A4-6-7	Diln Fac:	1.000
Type:	SSPIKE	Batch#:	67083
MSS Lab ID:	154723-002	Sampled:	10/12/01
Lab ID:	QC158685	Received:	10/12/01
Matrix:	Soil	Prepared:	10/12/01
Units:	mg/Kg	Analyzed:	10/16/01
Basis:	dry		

Moisture: 17%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<1.566	119.9	28.23	24	15-142
Arsenic	3.459	59.94	48.43	75	38-124
Beryllium	0.3851	2.997	2.895	84	46-120
Cadmium	1.614	11.99	11.03	79	37-117
Chromium	28.02	119.9	130.7	86	21-137
Copper	20.75	14.99	35.90	101	24-150
Lead	5.938	119.9	98.90	78	24-132
Nickel	45.71	29.97	77.92	107	21-142
Selenium	0.6053	59.94	37.94	62	32-118
Silver	<0.08916	11.99	9.770	82	45-118
Thallium	<0.1928	59.94	45.97	77	42-112
Zinc	35.97	29.97	66.53	102	20-146

Priority Pollutant Metals

Lab #:	154723	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	67143
Units:	mg/Kg	Prepared:	10/16/01
Basis:	as received	Analyzed:	10/16/01

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC158931	0.5000	0.5120	102	80-114		
BSD	QC158932	0.5000	0.5130	103	80-114	0	20

Priority Pollutant Metals

Lab #:	154723	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Basis:	dry
Field ID:	A4-6-5.5	Diln Fac:	200.0
Type:	SDUP	Batch#:	67143
MSS Lab ID:	154723-001	Sampled:	10/12/01
Lab ID:	QC158933	Received:	10/12/01
Matrix:	Soil	Prepared:	10/16/01
Units:	mg/Kg	Analyzed:	10/16/01

MSS Result	Result	RL	Moisture	RPD	Lim
56.98	63.23	4.5	18%	10	35

Priority Pollutant Metals

Lab #:	154723	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Prep:	METHOD
Project#:	510996706700	Analysis:	EPA 7471
Analyte:	Mercury	Basis:	dry
Field ID:	A4-6-5.5	Diln Fac:	200.0
Type:	MS	Batch#:	67143
MSS Lab ID:	154723-001	Sampled:	10/12/01
Lab ID:	QC158934	Received:	10/12/01
Matrix:	Soil	Prepared:	10/16/01
Units:	mg/Kg	Analyzed:	10/16/01

MSS Result	Spiked	Result	%REC	Limits	Moisture
56.98	0.5646	70.46	2388	NM 62-135	18%

NM= Not Meaningful

pH			
Lab #:	154723	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Analysis:	EPA 9040B
Project#:	510996706700		
Analyte:	pH	Batch#:	67097
Matrix:	Water	Sampled:	10/12/01
Units:	SU	Received:	10/12/01
Diln Fac:	1.000	Analyzed:	10/12/01

Field ID	Lab ID	Result	RL
A4-6	154723-010	7.5	1.0
A4-7	154723-011	6.9	1.0
A4-15	154723-012	7.1	1.0
PB11	154723-013	7.3	1.0
A4-14	154723-014	6.1	1.0

pH					
Lab #:	154723	Location:	UCB-Richmond Field Sta.		
Client:	URS Corporation	Analysis:	EPA 9040B		
Project#:	510996706700				
Analyte:	pH	Units:	SU		
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000		
Type:	SDUP	Batch#:	67097		
MSS Lab ID:	154699-005	Sampled:	10/11/01		
Lab ID:	QC158741	Received:	10/11/01		
Matrix:	Water	Analyzed:	10/12/01		
MSS Result	Result	RL	RPD	Lim	
6.840	6.850	1.0	0	20	

RL= Reporting Limit

RPD= Relative Percent Difference

pH			
Lab #:	154723	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Analysis:	EPA 9045C
Project#:	510996706700		
Analyte:	pH	Batch#:	67118
Matrix:	Soil	Sampled:	10/12/01
Units:	SU	Received:	10/12/01
Diln Fac:	1.000	Analyzed:	10/15/01

Field ID	Lab ID	Result	RL
A4-6-5.5	154723-001	7.4	1.0
A4-6-7	154723-002	8.6	1.0
A4-7-5.5	154723-003	7.1	1.0
A4-7-9.5	154723-004	5.2	1.0
A4-15-4	154723-005	2.4	1.0
A4-15-6	154723-006	5.7	1.0
A4-14-4.5	154723-008	5.3	1.0
A4-14-7	154723-009	5.0	1.0

pH			
Lab #:	154723	Location:	UCB-Richmond Field Sta.
Client:	URS Corporation	Analysis:	EPA 9045C
Project#:	510996706700		
Analyte:	pH	Units:	SU
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SDUP	Batch#:	67118
MSS Lab ID:	154518-001	Sampled:	09/28/01
Lab ID:	QC158840	Received:	10/02/01
Matrix:	Miscell.	Analyzed:	10/15/01

MSS Result	Result	RL	RPD	Lim
7.250	7.270	1.0	0	20

RL= Reporting Limit

RPD= Relative Percent Difference

