

Appendix B-1
AOC Delineation Analytical Reports



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

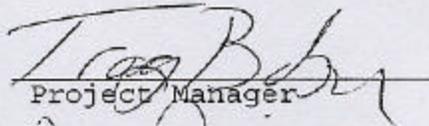
Prepared for:

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

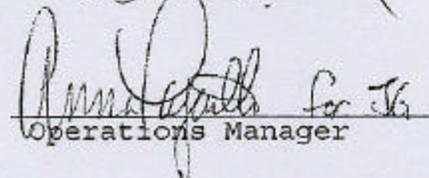
Date: 13-MAR-02
Lab Job Number: 157163
Project ID: 51-00070007.00-11100
Location: Rhodia

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: **157163**
Client: **URS Corporation**
Project #: **51-00070007.00-11100**
Location: **Rhodia**

Sampled Date: **02/22/02**
Received Date: **02/22/02**

CASE NARRATIVE

This hardcopy data package contains samples and QC results for three soil samples, which were received from the site referenced above on February 22, 2002. The samples were received intact. All results were corrected for moisture.

Metals (EPA 6010B):

For the matrix spikes of sample EMBANKMENT-5-0-6 (CT# 157163-001), the recoveries for copper and zinc 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.

General Chemistry:

No analytical problems were encountered.

157163

URS Greiner Woodward Clyde
 500 12th Street, Suite 200, Oakland, CA 94607-4014
 510.893.3600

Chain of Custody Record

Custody

PROJECT NO. 5-00090007-00 1100		ANALYSES						Number of Containers	REMARKS (Sample preservation, handling procedures, etc.)
SAMPLERS: (Signature) <i>[Signature]</i>		Sample Matrix (Soil, Water, Air)	EPA Method	EPA Method	EPA Method	EPA Method			
DATE	TIME	SAMPLE NUMBER							
12/22	10:15	EMBANKMENT 4-0-6	✓	✓	✓	✓	1	Regular TAT Results to Heather Pomy 874-3049 TB 2/22/02 unable to identify which samples are Embankment 6 of which are Embankment 4-4 Client will help to re-sample both sed.	
		EMBANKMENT 4-6-12					1		
		EMBANKMENT 4-12-24					1		
		EMBANKMENT 5-0-6					1		
		EMBANKMENT 5-6-12					1		
		EMBANKMENT 5-12-24					1		
		EMBANKMENT 6-0-6					1		
		EMBANKMENT 6-6-12					1		
		EMBANKMENT 6-12-24					1		
							TOTAL NUMBER OF CONTAINERS	9	
RELINQUISHED BY: (Signature) <i>[Signature]</i>		DATE/TIME 2/22/02 5:30	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>[Signature]</i>	DATE/TIME 2/22/02			

-1
-2
-3

90

TB 2/22/02

unable to identify which samples are Embankment 6 of which are Embankment 4-4

Client will help to re-sample both sed.

[Signature]
2/22/02
Khan

Percent Moisture Summary Report

Date: 26-FEB-02
 Batch: 70384
 Analyst: MLT

Sample	Method	Date	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
157158-001	CLP SOW 390	26-FEB-02	15.8715	22.0278	21.1466	86	14
157158-002	CLP SOW 390	26-FEB-02	15.5342	21.6134	20.6691	84	16
157158-003	CLP SOW 390	26-FEB-02	15.791	21.9157	21.0461	86	14
157158-004	CLP SOW 390	26-FEB-02	15.811	22.7964	20.7429	71	29
157158-005	CLP SOW 390	26-FEB-02	15.9605	21.6094	19.7952	68	32
157158-006	CLP SOW 390	26-FEB-02	15.8041	21.9102	19.9557	68	32
157158-007	CLP SOW 390	26-FEB-02	15.0027	22.2825	17.9442	40	60
157158-008	CLP SOW 390	26-FEB-02	15.5708	21.5172	17.9031	39	61
157158-009	CLP SOW 390	26-FEB-02	15.1533	20.246	17.393	44	56
157163-001	CLP SOW 390	26-FEB-02	14.9656	20.7543	18.7506	65	35
157163-002	CLP SOW 390	26-FEB-02	15.3112	21.6321	19.3989	65	35
157163-003	CLP SOW 390	26-FEB-02	15.0023	20.5538	18.5245	63	37
QC171256	CLP SOW 390	26-FEB-02	15.9384	21.8408	20.9556	85	15
of 157158-001					RPD:	0.8%	4.7%



Curtis & Tompkins, Ltd.

Copper

Lab #:	157163	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Sampled:	02/22/02
Matrix:	Soil	Received:	02/22/02
Units:	mg/Kg	Prepared:	02/28/02
Batch#:	70465	Analyzed:	03/01/02

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Diln	Pac
EMBANKMENT-5-0-6	SAMPLE	157163-001	3,700	12	dry	35%		20.00
EMBANKMENT-5-6-12	SAMPLE	157163-002	1,200	7.1	dry	35%		10.00
EMBANKMENT-5-12-24	SAMPLE	157163-003	1,500	6.9	dry	37%		10.00
	BLANK	QC171555	ND	0.50	as received			1.000

Not Detected

RL= Reporting Limit

Page 1 of 1

Copper

Lab #:	157163	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	70465
Units:	mg/Kg	Prepared:	02/28/02
Basis:	as received	Analyzed:	03/01/02

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC171556	12.50	12.70	102	72-120		
BSD	QC171557	12.50	12.80	102	72-120	1	20



Copper

Lab #:	157163	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Basis:	dry
Field ID:	EMBANKMENT-5-0-6	Diln Fac:	1.000
Type:	SSPIKE	Batch#:	70465
MSS Lab ID:	157163-001	Sampled:	02/22/02
Lab ID:	QC171558	Received:	02/22/02
Matrix:	Soil	Prepared:	02/28/02
Units:	mg/Kg	Analyzed:	03/01/02

MSS Result	Spiked	Result	%REC	Limits	Moisture
3,712	16.09	4,622 >LR	5652 NM	62-150	35%

NM= Not Meaningful

>LR= Response exceeds instrument's linear range



Copper			
Lab #:	157163	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Basis:	dry
Field ID:	EMBANKMENT-5-0-6	Diln Fac:	20.00
Type:	SDUP	Batch#:	70465
MSS Lab ID:	157163-001	Sampled:	02/22/02
Lab ID:	QCL71559	Received:	02/22/02
Matrix:	Soil	Prepared:	02/28/02
Units:	mg/Kg	Analyzed:	03/01/02

MSS Result	Result	RL	Moisture	RPD	Lim
3,712	4,419	15	35%	17	40



Curtis & Tompkins, Ltd.

Zinc			
Lab #:	157163	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Sampled:	02/22/02
Matrix:	Soil	Received:	02/22/02
Units:	mg/Kg	Prepared:	02/28/02
Batch#:	70465	Analyzed:	03/01/02

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Diln	Fac
EMBANKMENT-5-0-6	SAMPLE	157163-001	430	25	dry	35%		20.00
EMBANKMENT-5-6-12	SAMPLE	157163-002	190	14	dry	35%		10.00
EMBANKMENT-5-12-24	SAMPLE	157163-003	260	14	dry	37%		10.00
	BLANK	QC171555	ND	1.0	as received			1.000

Zinc			
Lab #:	157163	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	70465
Units:	mg/Kg	Prepared:	02/28/02
Basis:	as received	Analyzed:	03/01/02

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC171556	25.00	24.65	99	65-120		
BSD	QC171557	25.00	24.85	99	65-120	1	20

Zinc

Lab #:	157163	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Basis:	dry
Field ID:	EMBANKMENT-5-0-6	Diln Fac:	1.000
Type:	SSPIKE	Batch#:	70465
MSS Lab ID:	157163-001	Sampled:	02/22/02
Lab ID:	QC171558	Received:	02/22/02
Matrix:	Soil	Prepared:	02/28/02
Units:	mg/Kg	Analyzed:	03/01/02

MSS Result	Spiked	Result	%REC	Limits	Moisture
432.3	32.19	319.3 >LR	-351	NM 55-150	35%

= Not Meaningful

>LR= Response exceeds instrument's linear range



Zinc			
Lab #:	157163	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Basis:	dry
Field ID:	EMBANKMENT-5-0-6	Diln Fac:	20.00
Type:	SDUP	Batch#:	70465
MSS Lab ID:	157163-001	Sampled:	02/22/02
Lab ID:	QC171559	Received:	02/22/02
Matrix:	Soil	Prepared:	02/28/02
Units:	mg/Kg	Analyzed:	03/01/02

MSS Result	Result	RL	Moisture	RPD	Lim
432.3	515.8	30	35%	18	38



Curtis & Tompkins, Ltd.

pH			
Lab #:	157163	Location:	Rhodia
Client:	URS Corporation	Analysis:	EPA 9045C
Project#:	51-00070007.00-11100		
Analyte:	pH	Batch#:	70466
Matrix:	Soil	Sampled:	02/22/02
Units:	SU	Received:	02/22/02
Diln Fac:	1.000	Analyzed:	02/28/02

Field ID	Lab ID	Result	RL
EMBANKMENT-5-0-6	157163-001	6.3	1.0
EMBANKMENT-5-6-12	157163-002	5.0	1.0
EMBANKMENT-5-12-24	157163-003	4.5	1.0

pH			
Lab #:	157163	Location:	Rhodia
Client:	URS Corporation	Analysis:	EPA 9045C
Project#:	51-00070007.00-11100		
Analyte:	pH	Units:	SU
Field ID:	EMBANKMENT-5-12-24	Diln Fac:	1.000
Type:	SDUP	Batch#:	70466
MSS Lab ID:	157163-003	Sampled:	02/22/02
Lab ID:	QC171560	Received:	02/22/02
Matrix:	Soil	Analyzed:	02/28/02

MSS Result	Result	RL	RPD	Lim
4.540	4.500	1.0	1	20



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

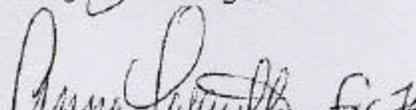
Date: 13-MAR-02
Lab Job Number: 157272
Project ID: 51-00070007.00-11100
Location: Rhodia

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: 157272
Client: URS Corporation
Project #: 51-00070007.00-11100
Location: Rhodia

Sampled Date: 03/01/02
Received Date: 03/02/02

CASE NARRATIVE

This hardcopy data package contains samples and QC results for six soil samples, which were received from the site referenced above on March 02, 2002. The samples were received intact. All results were corrected for moisture.

Metals (EPA 6010B):

For the matrix spikes of sample CT# 157225-001, the recoveries for copper 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.

General Chemistry:

No analytical problems were encountered.

CT# 157272

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

Chain of Custody Record

PROJECT NO.
 51-00076002.00 11/00

SAMPLERS: (Signature)
[Signature]

DATE TIME SAMPLE NUMBER

Sample Matrix (Soil, Water, Air)	ANALYSES								Number of Containers		
	EPA Method	EPA Method	EPA Method	EPA Method	Copper	Zinc	pH	Moisture Content		TOC	Ammonia

REMARKS
 (Sample preservation, handling procedures, etc.)

Just but not on 00072?

3/1/02	9:00	Embankment 6-0-6	S					X	X	X	X		1	Results to Heather Pohl 510-874-3049 HOLD
	-	Embankment 6-6-12	S					X	X	X	X		1	
	-	Embankment 6-12-24	S					X	X	X	X		1	
	-	Embankment 4-6-6	S					X	X	X	X		1	
	-	Embankment 4-6-12	S					X	X	X	X		1	
	-	Embankment 4-12-24	S					X	X	X	X		1	
	-	DT2-3W-12-24	S					X	X	X	X		1	
	-	DT2-3W-0-6	S					X	X	X	X		1	
	-	DT2-3W-6-12	S					X	X	X	X		1	
	-	DT2-3W-12-24	2										1	

Received On Ice
 Cold Ambient Intact

Preservation Correct?
 Yes No N/A

~~HEATER~~
~~HEATER~~
~~SAMPLES~~

~~Hold~~ ~~HEATER~~ ~~SAMPLES~~ TOTAL NUMBER OF CONTAINERS 9

RELINQUISHED BY: (Signature) *[Signature]* DATE/TIME 3/1/02 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: 06-MAR-02
 Batch: 70607
 Analyst: MLT

Sample	Method	Date	Tare(g)	Wet(g)	Dry(g)	Percent Solids	Percent Moisture
157225-001	CLP SOW 390	06-MAR-02	15.7908	22.2824	21.6155	90	10
157249-001	CLP SOW 390	06-MAR-02	15.6591	22.6052	22.4117	97	3
157249-002	CLP SOW 390	06-MAR-02	15.9914	23.6719	23.5008	98	2
157249-003	CLP SOW 390	06-MAR-02	15.8138	23.1667	23.0744	99	1
157249-004	CLP SOW 390	06-MAR-02	15.7417	23.1916	23.0283	98	2
157252-001	CLP SOW 390	06-MAR-02	15.2715	22.7069	20.7855	74	26
157252-002	CLP SOW 390	06-MAR-20	15.0072	24.2615	21.6812	72	28
157252-003	CLP SOW 390	06-MAR-02	15.955	24.1355	21.9608	73	27
157252-004	CLP SOW 390	06-MAR-02	15.0114	22.9493	20.906	74	26
157252-005	CLP SOW 390	06-MAR-02	15.5151	23.1222	21.0718	73	27
157272-001	CLP SOW 390	06-MAR-02	15.214	24.1435	18.9065	41	59
157272-002	CLP SOW 390	06-MAR-02	15.7659	23.009	18.2795	35	65
157272-003	CLP SOW 390	06-MAR-02	15.9634	23.7863	20.2111	54	46
157272-004	CLP SOW 390	06-MAR-02	15.3796	21.9075	20.0616	72	28
157272-005	CLP SOW 390	06-MAR-02	15.3528	24.2017	20.9884	64	36
157272-006	CLP SOW 390	06-MAR-02	15.2549	22.5054	19.5602	59	41
157301-001	CLP SOW 390	06-MAR-02	15.3068	23.5771	23.0709	94	6
QC172097	CLP SOW 390	06-MAR-02	15.5774	22.9818	20.9445	72	28
of 157252-005						RPD: 0.8%	2.1%



Copper

Lab #:	157272	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Sampled:	03/01/02
Matrix:	Soil	Received:	03/01/02
Units:	mg/Kg	Prepared:	03/06/02
Batch#:	70614		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Diln	Fac	Analyzed
EMBANKMENT 6-0-6	SAMPLE	157272-001	900	1.2	dry	59%	1.000		03/08/02
EMBANKMENT 6-6-12	SAMPLE	157272-002	5,400	24	dry	65%	20.00		03/08/02
EMBANKMENT 6-12-24	SAMPLE	157272-003	290	0.77	dry	46%	1.000		03/08/02
EMBANKMENT 4-0-6	SAMPLE	157272-004	5,700	12	dry	28%	20.00		03/08/02
EMBANKMENT 4-6-12	SAMPLE	157272-005	7,700	13	dry	36%	20.00		03/08/02
EMBANKMENT 4-12-24	SAMPLE	157272-006	9,500	14	dry	41%	20.00		03/08/02
	BLANK	QC172117	ND	0.50	as received		1.000		03/07/02

Not Detected

RL= Reporting Limit

Page 1 of 1

Copper

Lab #:	157272	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	70614
Units:	mg/Kg	Prepared:	03/06/02
Basis:	as received	Analyzed:	03/07/02

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC172118	12.50	13.10	105	72-120		
BSD	QC172119	12.50	11.45	92	72-120	13	20

Copper

Lab #:	157272	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	70614
MSS Lab ID:	157225-001	Sampled:	02/27/02
Matrix:	Soil	Received:	02/28/02
Units:	mg/Kg	Prepared:	03/06/02
Basis:	dry	Analyzed:	03/07/02

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC172120	69.26	13.42	64.95	-32 NM	62-150	10%		
MSD	QC172121		12.68	69.51	2 NM	62-150	10%	8	40

: Not Meaningful

RrD= Relative Percent Difference



Zinc			
Lab #:	157272	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Sampled:	03/01/02
Matrix:	Soil	Received:	03/01/02
Units:	mg/Kg	Prepared:	03/06/02
Batch#:	70614		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Diln	Fac	Analyzed
EMBANKMENT 6-0-6	SAMPLE	157272-001	370	2.4	dry	59%	1.000		03/08/02
EMBANKMENT 6-6-12	SAMPLE	157272-002	1,400	47	dry	65%	20.00		03/08/02
EMBANKMENT 6-12-24	SAMPLE	157272-003	1,400	31	dry	46%	20.00		03/08/02
EMBANKMENT 4-0-6	SAMPLE	157272-004	1,500	25	dry	28%	20.00		03/08/02
EMBANKMENT 4-6-12	SAMPLE	157272-005	1,900	26	dry	36%	20.00		03/08/02
EMBANKMENT 4-12-24	SAMPLE	157272-006	1,400	28	dry	41%	20.00		03/08/02
	BLANK	QC172117	ND	1.0	as received		1.000		03/07/02

Zinc

Lab #:	157272	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	70614
Units:	mg/Kg	Prepared:	03/06/02
Basis:	as received	Analyzed:	03/07/02

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC172118	25.00	21.05	84	65-120		
BSD	QC172119	25.00	22.45	90	65-120	6	20

Zinc

Lab #:	157272	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	70614
MSS Lab ID:	157225-001	Sampled:	02/27/02
Matrix:	Soil	Received:	02/28/02
Units:	mg/Kg	Prepared:	03/06/02
Basis:	dry	Analyzed:	03/07/02

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC172120	76.23	26.84	91.25	56	55-150	10%		
MSD	QC172121		25.37	92.34	63	55-150	10%	3	38

pH			
Lab #:	157272	Location:	Rhodia
Client:	URS Corporation	Analysis:	EPA 9045C
Project#:	51-00070007.00-11100		
Analyte:	pH	Batch#:	70743
Matrix:	Soil	Sampled:	03/01/02
Units:	SU	Received:	03/01/02
Diln Fac:	1.000	Analyzed:	03/11/02

Field ID	Lab ID	Result	RL
EMBANKMENT 6-0-6	157272-001	6.7	1.0
EMBANKMENT 6-6-12	157272-002	6.8	1.0
EMBANKMENT 6-12-24	157272-003	6.9	1.0
EMBANKMENT 4-0-6	157272-004	4.5	1.0
EMBANKMENT 4-6-12	157272-005	4.4	1.0
EMBANKMENT 4-12-24	157272-006	4.6	1.0



pH			
Lab #:	157272	Location:	Rhodia
Client:	URS Corporation	Analysis:	EPA 9045C
Project#:	51-00070007.00-11100		
Analyte:	pH	Units:	SU
Field ID:	EMBANKMENT 4-12-24	Diln Fac:	1.000
Type:	SDUP	Batch#:	70743
MSS Lab ID:	157272-006	Sampled:	03/01/02
Lab ID:	QC172623	Received:	03/01/02
Matrix:	Soil	Analyzed:	03/11/02

MSS Result	Result	RL	RPD	Lim
4.600	4.650	1.0	1	20



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

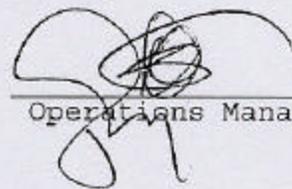
Date: 12-MAR-02
Lab Job Number: 157130
Project ID: 51-00070007.00-11100
Location: Rhodia

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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Curtis & Tompkins, Ltd.

Laboratory Numbers: 157130
Client: **URS Corporation**
Project #: 51-00070007.00-11100
Location: **Rhodia**

Sampled Date: 02/21/02
Received Date: 02/21/02

CASE NARRATIVE

This hardcopy data package contains samples and QC results for seven soil samples, which were received from the site referenced above on February 21, 2002. The samples were received intact. All results have been corrected for moisture.

Metals (EPA 6010B):

No analytical problems were encountered.

General Chemistry:

No analytical problems were encountered.

Particle Size:

PTS Laboratories, Inc. in Santa Fe Springs, California performed the analysis. No analytical problems were encountered.



Curtis & Tompkins, Ltd.

Copper

Lab #:	157130	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Sampled:	02/21/02
Matrix:	Soil	Received:	02/21/02
Units:	mg/Kg	Prepared:	02/21/02
Batch#:	70323	Analyzed:	02/22/02

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Diln	Fac
DT-7-1W-0-6	SAMPLE	157130-003	110	12	dry	58%	10.00	
DT-9-1W-0-6	SAMPLE	157130-004	630	7.5	dry	36%	10.00	
DT-8-1W-0-6	SAMPLE	157130-005	240	8.2	dry	40%	10.00	
DT-2-1E-0-6	SAMPLE	157130-006	200	8.5	dry	43%	10.00	
DT-2-1W-0-6	SAMPLE	157130-007	1,200	16	dry	74%	10.00	
	BLANK	QC171026	ND	0.50	as received		1.000	

Copper			
Lab #:	157130	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	70323
Units:	mg/Kg	Prepared:	02/21/02
Basis:	as received	Analyzed:	02/22/02

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC171027	12.50	11.75	94	67-114		
BSD	QC171028	12.50	11.65	93	67-114	1	20



Copper

Lab #:	157130	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	70323
MSS Lab ID:	157110-002	Sampled:	02/20/02
Matrix:	Soil	Received:	02/20/02
Units:	mg/Kg	Prepared:	02/21/02
Basis:	dry	Analyzed:	02/22/02

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC171029	7.164	12.54	20.11	103	24-150	11%		
MSD	QC171030		12.00	19.06	99	24-150	11%	3	38

Zinc			
Lab #:	157130	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Sampled:	02/21/02
Matrix:	Soil	Received:	02/21/02
Units:	mg/Kg	Prepared:	02/21/02
Batch#:	70323	Analyzed:	02/22/02

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Diln Fac
DT-7-1W-0-6	SAMPLE	157130-003	240	24	dry	58%	10.00
DT-9-1W-0-6	SAMPLE	157130-004	330	15	dry	36%	10.00
DT-8-1W-0-6	SAMPLE	157130-005	610	16	dry	40%	10.00
DT-2-1E-0-6	SAMPLE	157130-006	370	17	dry	43%	10.00
DT-2-1W-0-6	SAMPLE	157130-007	4,400	32	dry	74%	10.00
	BLANK	QC171026	ND	1.0	as received		1.000



Zinc

Lab #:	157130	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	70323
Units:	mg/Kg	Prepared:	02/21/02
Basis:	as received	Analyzed:	02/22/02

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC171027	25.00	23.45	94	57-119		
BSD	QC171028	25.00	22.85	91	57-119	3	20

Zinc			
Lab #:	157130	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	70323
MSS Lab ID:	157110-002	Sampled:	02/20/02
Matrix:	Soil	Received:	02/20/02
Units:	mg/Kg	Prepared:	02/21/02
Basis:	dry	Analyzed:	02/22/02

Type	Lab ID	MSS Result	Spiked	Result	EREC	Limits	Moisture	RPD	Lim
MS	QC171029	43.09	25.08	69.72	106	20-146	11%		
MSD	QC171030		24.01	66.74	99	20-146	11%	3	37



pH			
Lab #:	157130	Location:	Rhodia
Client:	URS Corporation	Analysis:	EPA 9045C
Project#:	51-00070007.00-11100		
Analyte:	pH	Batch#:	70327
Matrix:	Soil	Sampled:	02/21/02
Units:	SU	Received:	02/21/02
Diln Fac:	1.000	Analyzed:	02/22/02

Field ID	Lab ID	Result	RL
DT-7-1W-0-6	157130-003	5.5	1.0
DT-9-1W-0-6	157130-004	4.2	1.0
DT-8-1W-0-6	157130-005	5.4	1.0
DT-2-1E-0-6	157130-006	7.3	1.0
DT-2-1W-0-6	157130-007	6.8	1.0

pH				
Lab #:	157130	Location:	Rhodia	
Client:	URS Corporation	Analysis:	EPA 9045C	
Project#:	51-00070007.00-11100			
Analyte:	pH	Units:	SU	
Field ID:	DT-2-1W-0-6	Diln Fac:	1.000	
Type:	SDUP	Batch#:	70327	
MSS Lab ID:	157130-007	Sampled:	02/21/02	
Lab ID:	QC171043	Received:	02/21/02	
Matrix:	Soil	Analyzed:	02/22/02	
MSS Result	Result	RL	RPD	Lim
6.830	6.880	1.0	1	20



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

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ANALYTICAL REPORT

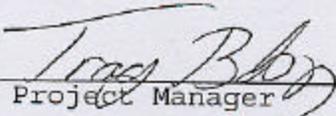
Prepared for:

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

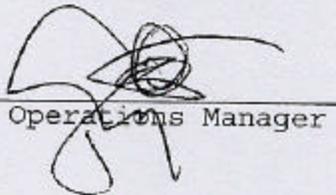
Date: 12-MAR-02
Lab Job Number: 157184
Project ID: 51-00070007.00-11100
Location: Rhodia

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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Laboratory Numbers: 157184
Client: URS Corporation
Project #: 51-00070007.00-11100
Location: Rhodia

Sampled Date: 02/21/02
Received Date: 02/22/02

CASE NARRATIVE

This hardcopy data package contains samples and QC results for twenty-two soil samples, which were received from the site referenced above on February 22, 2002. The samples were received intact. All results have been corrected for moisture.

Metals (EPA 6010B):

For the sample spikes of DT-1-1W-6-12 (CT# 157184-001) and DT-9-1W-6-12 (CT# 157184-021), the recoveries for copper and zinc are considered not meaningful (NM) as the sample concentration for these elements are four times greater than the spiked level. No analytical problems were encountered.

General Chemistry:

No analytical problems were encountered.

Particle Size:

PTS Laboratories, Inc. in Santa Fe Springs, California performed the analysis. No analytical problems were encountered.

157194

~~FIELD~~

URS

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

Chain of Custody Record

PROJECT NO.
E1-00070007.00 11100

SAMPLERS: (Signature) *[Signature]*

DATE TIME SAMPLE NUMBER

Sample Matrix (Spot, Water, Air)	ANALYSES
EPA Method 8000	TOC
EPA Method 8000	Grain Size
EPA Method 8000	Ammonia
EPA Method 8000	Salinity
EPA Method 8000	Moisture
EPA Method 8000	pH
EPA Method 8000	Copper
EPA Method 8000	Bio

Number of Containers

REMARKS
(Sample preservation, handling procedures, etc.)
Results to Heather Pohl
URS Corp. com
56-874-349

02/21	1349	X DT-1-1E-6-12	S	✓	✓	✓	✓	✓	✓	✓	(2)	3	- HOLD
	1400	DT-3-1W-6-12	S								1	1	- HOLD
	1339	X DT-1-1W-6-12	S								(2)	3	- HOLD
	1350	DT-3-1E-6-12	S								1	1	- HOLD
		DT-1-1E-12-24	S								2	2	- HOLD
		DT-1-1E-0-6	S								1	1	ANALYZE
		DT-1-3W-0-6	S								2	2	- HOLD
		DT-1-3W-6-12	S								2	2	- HOLD
		DT-1-3W-12-24	S								2	2	- HOLD
		X DT-1-2W-0-6	S								(2)	2	- HOLD
		DT-1-2W-6-12	S								2	2	- HOLD
		DT-1-2W-12-24	S								2	2	- HOLD
		DT-1-1W-0-6	S								1	1	ANALYZE
		DT-1-1W-6-12	S								2	2	- HOLD
		X DT-1-2E-0-6	S								(2)	2	- HOLD
		DT-1-2E-6-12	S								2	2	- HOLD
		DT-1-2E-12-24	S								2	2	- HOLD
		DT-1-3E-0-6	S								2	2	- HOLD
		DT-1-3E-6-12	S								2	2	- HOLD
		DT-1-3E-12-24	S								2	2	- HOLD
		DT-7-1W-0-6	S								2	2	ANALYZE
		DT-9-1W-0-6	S								1	1	ANALYZE
		DT-8-1W-0-6	S								1	1	ANALYZE
		DT-2-1E-0-6	S								2	2	ANALYZE
		DT-2-1W-0-6	S								2	2	ANALYZE

Notes:
Homogenize all samples
Kushlan
Don
Copper 100
off & no. Cont
Reserve 0.1m

TOTAL NUMBER OF CONTAINERS
46

RELINQUISHED BY: (Signature) *[Signature]*

DATE/TIME
2/21/04 4pm

RECEIVED BY: (Signature) *[Signature]*

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

METHOD OF SHIPMENT:
VBS
DANGER

SHIPPED BY: (Signature)

COURIER: (Signature)

RECEIVED FOR LAB BY (Signature)

DATE/TIME



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

Chain of Custody Record

PROJECT NO. 51-00070007.00			ANALYSES							Number of Containers	REMARKS (Sample preservation, handling procedures, etc.)	
SAMPLERS (Signature)			Sample Matrix (S/Sol, G/Solids, A/S)	EPA Method Copper	EPA Method Boron	EPA Method pH	EPA Method Arsenic	TDS	Conductivity			Salinity
DATE	TIME	SAMPLE NUMBER										
02/24/02		DT-3-3E-0-6	S	✓	✓	✓	✓	✓	✓	✓	2	Results to Heaton Pore 510-874-3049 Hold ANALYZE except marked- 2 Register TAT Grain Size
		DT-3-3E-6-12		✓	✓	✓	✓	✓	✓	✓	2	
		DT-3-3E-12-24		✓	✓	✓	✓	✓	✓	✓	2	
		DT-3-3W-0-6		✓	✓	✓	✓	✓	✓	✓	2	
		DT-3-3W-6-12		✓	✓	✓	✓	✓	✓	✓	2	
		DT-3-3W-12-24		✓	✓	✓	✓	✓	✓	✓	2	
		DT-DIP-2		✓	✓	✓	✓	✓	✓	✓	2	
		DT-DIP-3		✓	✓	✓	✓	✓	✓	✓	2	
		DT-DIP-11		✓	✓	✓	✓	✓	✓	✓	2	
		DT-DIP-10	S								2	
		DT-4-1W-0-6		✓	✓	✓	✓	✓	✓	✓	1	
		xDT-4-1W-6-12									2	
		DT-4-1W-12-24									2	
		DT-4-1E-0-6		✓	✓	✓	✓	✓	✓	✓	1	
		xDT-4-1E-6-12									2	
		DT-4-1E-12-24									2	
		xDT-4-2E-0-6									2	
		DT-4-2E-6-12									2	
		DT-4-2E-12-24									2	
		DT-4-3E-0-6									2	
		DT-4-3E-6-12									2	
		DT-4-3E-12-24		✓	✓	✓	✓	✓	✓	✓	2	
<p>Hold All SAMPLES except marked</p>										TOTAL NUMBER OF CONTAINERS	42	
RELINQUISHED BY: (Signature)		DATE/TIME	RECEIVED BY: (Signature)		RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)			
METHOD OF SHIPMENT:		SHIPPED BY: (Signature)		COURIER: (Signature)		RECEIVED FOR LAB BY (Signature)		DATE/TIME				

1730

204

Code 1

URS Greiner Woodward Clyde
500 12th Street, Suite 200, Oakland, CA 94607-4014
510.893.3600

Chain of Custody Record

PROJECT NO. 2-0070007.00		SAMPLES: (Signature)	Sample Matrix (Soil, Water, Air)	ANALYSES							Number of Containers	REMARKS (Sample preservation, handling procedures, etc.)
DATE	TIME			SAMPLE NUMBER	TOC	Ammonia	Sulfate	Organic SIZ	Other	Other		
02/21/02		DT-DUP-1	S	✓	✓	✓	✓	✓	✓	✓	1	Results to Heather Pelt 510-874-3049 HOLD ALL SAMPLES except marked
		DT-3-1E-12-24	S	✓	✓	✓	✓	✓	✓	✓	2	
		DT-3-1W-12-24	S	✓	✓	✓	✓	✓	✓	✓	2	
		XDT-3-2W-0-6	S	✓	✓	✓	✓	✓	✓	✓	2	
		DT-3-2W-6-12	S	✓	✓	✓	✓	✓	✓	✓	2	
		DT-3-2W-12-24	S	✓	✓	✓	✓	✓	✓	✓	2	
		XDT-3-2E-0-6	S	✓	✓	✓	✓	✓	✓	✓	2	
		DT-3-2E-6-12	S	✓	✓	✓	✓	✓	✓	✓	2	
		DT-3-2E-12-24	S	✓	✓	✓	✓	✓	✓	✓	2	
		DT-3-3E-0-6	S	✓	✓	✓	✓	✓	✓	✓	2	
		DT-3-3E-6-12	S	✓	✓	✓	✓	✓	✓	✓	2	
		DT-3-3E-12-24	S	✓	✓	✓	✓	✓	✓	✓	2	
		DT-3-1E-6-12	S							✓	1	
		DT-3-1E-0-6	S							✓	1	
		DT-3-1W-0-6	S							✓	1	
		DT-3-1W-6-12	S							✓	1	
02/21/02		DT-5-1E-0-6	S							✓	1	
		XDT-5-1E-6-12	S	✓	✓	✓	✓	✓	✓	✓	2	
		DT-5-1E-12-24	S	✓	✓	✓	✓	✓	✓	✓	2	
		DT-5-1W-0-6	S							✓	1	
		XDT-5-1W-6-12	S	✓	✓	✓	✓	✓	✓	✓	2	
		DT-5-1W-12-24	S	✓	✓	✓	✓	✓	✓	✓	2	
		XDT-5-2E-0-6	S	✓	✓	✓	✓	✓	✓	✓	2	
		DT-5-2E-6-12	S	✓	✓	✓	✓	✓	✓	✓	2	
		DT-5-2E-12-24	S	✓	✓	✓	✓	✓	✓	✓	2	
		XDT-5-2W-0-6	S	✓	✓	✓	✓	✓	✓	✓	2	
		DT-5-2W-6-12	S	✓	✓	✓	✓	✓	✓	✓	2	
		DT-5-2W-12-24	S	✓	✓	✓	✓	✓	✓	✓	2	

HOLD ALL ANALYSES! except circled/ marked

TOTAL NUMBER OF CONTAINERS 49

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
<i>[Signature]</i>	2/21/02 5:30				
METHOD OF SHIPMENT:	SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY: (Signature)	DATE/TIME	
			<i>[Signature]</i>	2/21/02	

1730

3 of 4

Coiler 214

URS

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

Chain of Custody Record

PROJECT NO. SI-00070007.00			ANALYSES										Number of Containers	REMARKS (Sample preservation, handling procedures, etc.)
SAMPLERS: (Signature) <i>[Signature]</i>			Sample Matrix (Soil, Water, Air)	Element	Method	Method	Method	Method	Method	Method	Method	Method		
DATE	TIME	SAMPLE NUMBER		Copper	Zinc	Pb	Mn	TC	Ammonia	Sulfide	Crash Size			
2/2/02		DT-6-1W-0-6	S	---	---	---	---	---	---	---	---	1	Hubs Are SAMPLES Results to Heather Pohl 510-874-3044	
		DT-6-1W-6-12										2		
		DT-6-1W-12-24										2		
		DT-6-2W-0-6										2		
		DT-6-2W-6-12										2		
		DT-6-2W-12-24										2		
		DT-6-3W-0-6										2		
		DT-6-3W-6-12										2		
		DT-6-3W-12-24										2		
		DT-6-4W-0-6										2		
		DT-6-4W-6-12										2		
		DT-6-4W-12-24										2		
		DT-7-1W-6-12										2		
		DT-7-1W-12-24										2		
		DT-7-2W-0-6										2		
		DT-7-2W-6-12										2		
		DT-7-2W-12-24										2		
		DT-7-3W-0-6										2		
		DT-7-3W-6-12										2		
		DT-7-3W-12-24										2		
		DT-DUP-4										2		
		DT-DUP-5										2		
		DT-DUP-6										2		
		DT-DUP-7										2		
		DT-DUP-8										2		
		DT-DUP-9										2		
TOTAL NUMBER OF CONTAINERS 51 51														
RELINQUISHED BY: (Signature) <i>[Signature]</i>			DATE/TIME 2/2/02 1530	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>[Signature]</i>		DATE/TIME 2/2/02		

1730

4 864

cooler 3 + 4



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

Chain of Custody Record

PROJECT NO.		SAMPLE NUMBER	Sample Matrix (Soil, Water, Air)	ANALYSES							Number of Containers	REMARKS (Sample preservation, handling procedures, etc.)
SAMPLERS (Signature)				Copper	Zinc	pH	Pressure	TOC	Ammonia	Salinity		
DATE	TIME											
8/22/02		XDT-8-1W-6-12	S								2	Results to Heather Pohl 510-874-3049 Hold All SAMPLES!
		DT-8-1W-12-24									1	
		XDT-8-2W-0-6									1	
		DT-8-2W-6-12									1	
		DT-8-2W-12-24									1	
		DT-8-3W-0-6									1	
		DT-8-3W-6-12									1	
		DT-8-3W-12-24									1	
		XDT-9-1W-6-12									1	
		DT-9-1W-12-24									1	
		XDT-9-2W-0-6									1	
		DT-9-2W-6-12									1	
		DT-9-2W-12-24									1	
		DT-9-3W-0-6									1	
		DT-9-3W-6-12									1	
		DT-9-3W-12-24									1	
		DT-2-1E-6-12									2	
		DT-2-1E-12-24									1	
		DT-2-2E-0-6									1	
		DT-2-2E-6-12									1	
		DT-2-2E-12-24									1	
		DT-2-3E-0-6									1	
		DT-2-3E-6-12									1	
		DT-2-3E-12-24									1	
		XDT-2-1W-6-12									1	
		DT-2-1W-12-24									1	
		XDT-2-2W-0-6									1	
		DT-2-2W-6-12									1	

HOLD ALL SAMPLES

TOTAL NUMBER OF CONTAINERS: 26

RELINQUISHED BY: (Signature) <i>C. Han</i>	DATE/TIME 8/22/02 15:30	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>[Signature]</i>	DATE/TIME 2/22/02	

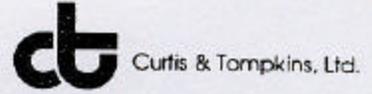
1730

Copper

Lab #: 157184
 Client: URS Corporation
 Project#: 51-00070007.00-11100
 Analyte: Copper
 Matrix: Soil
 Units: mg/Kg
 Location: Rhodia
 Prep: EPA 3050
 Analysis: EPA 6010E
 Received: 02/22/02
 Prepared: 02/26/02

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Diin	Pac	Batch#	Sampled	Analyzed
DT-2-1W-6-12	SAMPLE	157184-005	1,200	11	dry	57%	10.00		70422	02/22/02	02/28/02
DT-2-2W-0-6	SAMPLE	157184-006	870	22	dry	78%	10.00		70422	02/22/02	02/28/02
DT-4-1E-6-12	SAMPLE	157184-012	440	11	dry	57%	10.00		70422	02/22/02	02/28/02
DT-4-2E-0-6	SAMPLE	157184-013	650	11	dry	56%	10.00		70422	02/22/02	02/28/02
DT-5-1W-6-12	SAMPLE	157184-014	730	8.3	dry	43%	10.00		70422	02/22/02	02/28/02
DT-5-2W-0-6	SAMPLE	157184-015	1,400	9.9	dry	57%	10.00		70422	02/22/02	02/28/02
DT-5-1E-6-12	SAMPLE	157184-016	450	7.4	dry	36%	10.00		70422	02/22/02	02/28/02
DT-5-2E-0-6	SAMPLE	157184-017	1,200	7.3	dry	44%	10.00		70422	02/22/02	02/28/02
DT-6-2W-0-6	SAMPLE	157184-018	440	8.1	dry	40%	10.00		70422	02/21/02	02/28/02
DT-9-1W-6-12	SAMPLE	157184-021	210	0.71	dry	32%	1.000		70423	02/22/02	02/27/02
DT-9-2W-0-6	SAMPLE	157184-022	560	0.84	dry	41%	1.000		70423	02/22/02	02/27/02
	BLANK	QC171394	ND	0.50	as received				70422		02/28/02
	BLANK	QC171399	ND	0.50	as received				70423		02/27/02

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





Copper			
Lab #:	157184	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	70422
Units:	mg/Kg	Prepared:	02/26/02
Basis:	as received	Analyzed:	02/28/02

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC171395	12.50	12.75	102	67-114		
BSD	QC171396	12.50	12.55	100	67-114	2	20

RPD= Relative Percent Difference



Copper			
Lab #:	157184	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Basis:	dry
Field ID:	DT-1-1W-6-12	Diln Fac:	1.000
Type:	SSPIKE	Batch#:	70422
MSS Lab ID:	157184-001	Sampled:	02/21/02
Lab ID:	QC171397	Received:	02/21/02
Matrix:	Soil	Prepared:	02/26/02
Units:	mg/Kg	Analyzed:	02/28/02

MSS Result	Spiked	Result	%REC	Limits	Moisture
113.7	22.50	143.1	131	NM 24-150	45%



Copper			
Lab #:	157184	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Basis:	dry
Field ID:	DT-1-1W-6-12	Diln Fac:	10.00
Type:	SDUF	Batch#:	70422
MSS Lab ID:	157184-001	Sampled:	02/21/02
Lab ID:	QC171398	Received:	02/21/02
Matrix:	Soil	Prepared:	02/26/02
Units:	mg/Kg	Analyzed:	02/28/02

MSS Result	Result	RL	Moisture	RPD	Lim
113.7	114.9	9.0	45%	1	38

Copper			
Lab #:	157184	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	70423
Units:	mg/Kg	Prepared:	02/26/02
Basis:	as received	Analyzed:	02/27/02

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC171400	12.50	11.85	95	67-114		
BSD	QC171401	12.50	11.75	94	67-114	1	20

Copper			
Lab #:	157184	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Basis:	dry
Field ID:	DT-9-1W-6-12	Diln Fac:	1.000
Type:	SSPIKE	Batch#:	70423
MSS Lab ID:	157184-021	Sampled:	02/22/02
Lab ID:	QC171402	Received:	02/22/02
Matrix:	Soil	Prepared:	02/26/02
Units:	mg/Kg	Analyzed:	02/27/02

MSS Result	Spiked	Result	%REC	Limits	Moisture
207.4	15.19	241.2	223	NM 24-150	32%



Curtis & Tompkins, Ltd.

Copper			
Lab #:	157184	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Basis:	dry
Field ID:	DT-9-1W-6-12	Diln Fac:	1.000
Type:	SDUP	Batch#:	70423
MSS Lab ID:	157184-021	Sampled:	02/22/02
Lab ID:	QC171403	Received:	02/22/02
Matrix:	Soil	Prepared:	02/26/02
Units:	mg/Kg	Analyzed:	02/27/02

MSS Result	Result	RL	Moisture	RPD	Lim
207.4	233.8	0.69	32%	12	38

RL= Reporting Limit

RPD= Relative Percent Difference

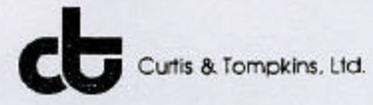
Page 1 of 1

Zinc

Lab #: 157184
 Client: URS Corporation
 Project#: SL-00070007.00-11100
 Analyte: Zinc
 Matrix: Soil
 Location: Rhodia
 Prep: EPA 3050
 Analysis: EPA 6010B
 Units: mg/kg
 Prepared: 02/25/02

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Diln.Fac	Batch#	Sampled	Received	Analyzed
DT-1-1W-6-12	SAMPLE	157184-001	920	18	dry	45%	10.00	70422	02/21/02	02/21/02	02/28/02
DT-1-2W-0-6	SAMPLE	157184-002	460	22	dry	58%	10.00	70422	02/21/02	02/21/02	02/28/02
DT-1-1E-6-12	SAMPLE	157184-003	1,500	19	dry	55%	10.00	70422	02/21/02	02/21/02	02/28/02
DT-1-2E-0-6	SAMPLE	157184-004	400	35	dry	72%	10.00	70422	02/21/02	02/21/02	02/28/02
DT-2-1W-6-12	SAMPLE	157184-005	3,700	22	dry	57%	10.00	70422	02/22/02	02/22/02	02/28/02
DT-2-2W-0-6	SAMPLE	157184-006	3,100	43	dry	78%	10.00	70422	02/22/02	02/22/02	02/28/02
DT-3-1W-6-12	SAMPLE	157184-007	910	13	dry	28%	10.00	70422	02/21/02	02/21/02	02/28/02
DT-3-2W-0-6	SAMPLE	157184-008	820	14	dry	35%	10.00	70422	02/21/02	02/21/02	02/28/02
DT-3-1E-6-12	SAMPLE	157184-009	1,800	19	dry	52%	10.00	70422	02/21/02	02/22/02	02/28/02
DT-3-2E-0-6	SAMPLE	157184-010	880	15	dry	37%	10.00	70422	02/21/02	02/22/02	02/28/02
DT-4-1W-6-12	SAMPLE	157184-011	1,000	22	dry	56%	10.00	70422	02/22/02	02/22/02	02/28/02
DT-4-1E-6-12	SAMPLE	157184-012	900	21	dry	57%	10.00	70422	02/22/02	02/22/02	02/28/02
DT-4-2E-0-6	SAMPLE	157184-013	1,100	21	dry	56%	10.00	70422	02/22/02	02/22/02	02/28/02
DT-5-1W-6-12	SAMPLE	157184-014	530	17	dry	43%	10.00	70422	02/22/02	02/22/02	02/28/02
DT-5-2W-0-6	SAMPLE	157184-015	990	20	dry	57%	10.00	70422	02/22/02	02/22/02	02/28/02
DT-5-1E-6-12	SAMPLE	157184-016	1,400	15	dry	36%	10.00	70422	02/22/02	02/22/02	02/28/02
DT-5-2E-0-6	SAMPLE	157184-017	840	15	dry	44%	10.00	70422	02/22/02	02/22/02	02/28/02
DT-6-2W-0-6	SAMPLE	157184-018	850	16	dry	40%	10.00	70422	02/21/02	02/22/02	02/28/02
DT-8-1W-6-12	SAMPLE	157184-019	1,200	17	dry	44%	10.00	70422	02/22/02	02/22/02	02/28/02
DT-8-2W-0-6	SAMPLE	157184-020	680	20	dry	52%	10.00	70422	02/22/02	02/22/02	02/28/02
DT-9-1W-6-12	SAMPLE	157184-021	220	1.4	dry	32%	1.000	70423	02/22/02	02/22/02	02/27/02
DT-9-2W-0-6	SAMPLE	157184-022	210	1.7	dry	41%	1.000	70423	02/22/02	02/22/02	02/27/02
	BLANK	QCL171394	ND	1.0	as received		1.000	70423			02/27/02
	BLANK	QCL171399	ND	1.0	as received		1.000	70423			02/27/02

ND= Not Detected
 RL= Reporting Limit
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Zinc

Lab #:	157184	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	70422
Units:	mg/Kg	Prepared:	02/26/02
Basis:	as received	Analyzed:	02/28/02

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC171395	25.00	24.15	97	57-119		
BSD	QC171396	25.00	23.70	95	57-119	2	20



Curtis & Tompkins, Ltd.

Zinc			
Lab #:	157184	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Basis:	dry
Field ID:	DT-1-1W-6-12	Diln Fac:	1.000
Type:	SSPIKE	Batch#:	70422
MSS Lab ID:	157184-001	Sampled:	02/21/02
Lab ID:	QC171397	Received:	02/21/02
Matrix:	Soil	Prepared:	02/26/02
Units:	mg/Kg	Analyzed:	02/28/02

MSS Result	Spiked	Result	%REC	Limits	Moisture
922.5	45.00	756.1 >LR	-370	NM 20-146	45%

NM= Not Meaningful
>LR= Response exceeds instrument's linear range
Page 1 of 1

Zinc			
Lab #:	157184	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Basis:	dry
Field ID:	DT-1-1W-6-12	Diln Fac:	10.00
Type:	SDUP	Batch#:	70422
MSS Lab ID:	157184-001	Sampled:	02/21/02
Lab ID:	QC171398	Received:	02/21/02
Matrix:	Soil	Prepared:	02/26/02
Units:	mg/Kg	Analyzed:	02/28/02

MSS Result	Result	RL	Moisture	RPD	Lim
922.5	922.7	18	45%	0	37

Zinc			
Lab #:	157184	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	70423
Units:	mg/Kg	Prepared:	02/26/02
Basis:	as received	Analyzed:	02/27/02

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lin
BS	QC171400	25.00	21.35	85	57-119		
BSD	QC171401	25.00	21.15	85	57-119	1	20

Zinc			
Lab #:	157184	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Basis:	dry
Field ID:	DT-9-1W-6-12	Diln Fac:	1.000
Type:	SSPIKE	Batch#:	70423
MSS Lab ID:	157184-021	Sampled:	02/22/02
Lab ID:	QC171402	Received:	02/22/02
Matrix:	Soil	Prepared:	02/26/02
Units:	mg/Kg	Analyzed:	02/27/02

MSS Result	Spiked	Result	%REC	Limits	Moisture
223.1	30.38	260.7 >LR	124	NM 20-146	32%

Zinc			
Lab #:	157184	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Basis:	dry
Field ID:	DT-9-1W-6-12	Diln Fac:	1.000
Type:	SDUP	Batch#:	70423
MSS Lab ID:	157184-021	Sampled:	02/22/02
Lab ID:	QC171403	Received:	02/22/02
Matrix:	Soil	Prepared:	02/26/02
Units:	mg/Kg	Analyzed:	02/27/02

MSS Result	Result	RL	Moisture	RPD	Lim
223.1	233.1	1.4	32%	4	37



Curtis & Tompkins, Ltd.

pH			
Lab #:	157184	Location:	Rhodia
Client:	URS Corporation	Analysis:	EPA 9045C
Project#:	51-00070007.00-11100		
Analyte:	pH	Diln Fac:	1.000
Matrix:	Soil	Analyzed:	02/27/02
Units:	SU		

Field ID	Lab ID	Result	RL	Batch#	Sampled	Received
DT-1-1W-6-12	157184-001	7.0	1.0	70449	02/21/02	02/21/02
DT-1-2W-0-6	157184-002	6.9	1.0	70449	02/21/02	02/21/02
DT-1-1E-6-12	157184-003	7.3	1.0	70449	02/21/02	02/21/02
DT-1-2E-0-6	157184-004	7.2	1.0	70449	02/21/02	02/21/02
DT-2-1W-6-12	157184-005	7.2	1.0	70449	02/22/02	02/22/02
DT-2-2W-0-6	157184-006	6.9	1.0	70449	02/22/02	02/22/02
DT-3-1W-6-12	157184-007	4.8	1.0	70449	02/21/02	02/21/02
DT-3-2W-0-6	157184-008	5.6	1.0	70449	02/21/02	02/22/02
DT-3-1E-6-12	157184-009	7.3	1.0	70449	02/21/02	02/22/02
DT-3-2E-0-6	157184-010	7.1	1.0	70449	02/21/02	02/22/02
DT-4-1W-6-12	157184-011	6.6	1.0	70450	02/22/02	02/22/02
DT-4-1E-6-12	157184-012	6.9	1.0	70450	02/22/02	02/22/02
DT-4-2E-0-6	157184-013	6.7	1.0	70450	02/22/02	02/22/02
DT-5-1W-6-12	157184-014	6.2	1.0	70450	02/22/02	02/22/02
DT-5-2W-0-6	157184-015	6.8	1.0	70450	02/22/02	02/22/02
DT-5-1E-6-12	157184-016	7.0	1.0	70450	02/22/02	02/22/02
DT-5-2E-0-6	157184-017	6.7	1.0	70450	02/22/02	02/22/02
DT-6-2W-0-6	157184-018	5.8	1.0	70450	02/21/02	02/22/02
DT-8-1W-6-12	157184-019	5.4	1.0	70450	02/22/02	02/22/02
DT-8-2W-0-6	157184-020	7.1	1.0	70450	02/22/02	02/22/02
DT-9-1W-6-12	157184-021	4.6	1.0	70450	02/22/02	02/22/02
DT-9-2W-0-6	157184-022	4.7	1.0	70450	02/22/02	02/22/02

RL= Reporting Limit

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Curtis & Tompkins, Ltd.

pH			
Lab #:	157184	Location:	Rhodia
Client:	URS Corporation	Analysis:	EPA 9045C
Project#:	51-00070007.00-11100		
Analyte:	pH	Units:	SU
Type:	SDUP	Diln Fac:	1.000
Matrix:	Soil	Analyzed:	02/27/02

Field ID	MSS Lab ID	Lab ID	MSS Result	Result	RL	RPD	Lim	Batch#	Sampled	Received
EMBANKMENT-3-12-24	157158-009	QC171495	7.210	7.300	1.0	1	20	70449	02/21/02	02/21/02
DT-9-2W-0-6	157184-022	QC171497	4.700	4.740	1.0	1	20	70450	02/22/02	02/22/02



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: 07-MAR-02
Lab Job Number: 157158
Project ID: 51-00070007.00-11100
Location: Rhodia

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 Becker
Project Manager

Reviewed by: [Signature]
Operations Manager

This package may be reproduced only in its entirety.

Laboratory Numbers: 157158
Client: **URS Corporation**
Project #: 51-00070007.00-11100
Location: Rhodia

Sampled Date: 02/21/02
Received Date: 02/21/02

CASE NARRATIVE

This hardcopy data package contains samples and QC results for nine soil samples, which were received from the site referenced above on February 21, 2002. The samples were received intact. All results were corrected for moisture.

Metals (EPA 6010B):

No analytical problems were encountered.

General Chemistry:

No analytical problems were encountered.

157158



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

Chain of Custody Record

PROJECT NO. SI-00070007.00 11100		ANALYSES				Number of Containers	REMARKS (Sample preservation, handling procedures, etc.)
SAMPLERS: (Signature) <i>[Signature]</i>		Sample Matrix (Soil, Water, Air)	EPA Method 8260	EPA Method 8210	EPA Method 8215		
DATE	TIME	SAMPLE NUMBER					
1	02/26/02 15	Embankment-1-0-6	S	✓	✓	✓	Regular TAT Results to Kather Pohl
2		Embankment-1-6-12	S	✓	✓	✓	
3		Embankment-1-12-24	S	✓	✓	✓	
4		Embankment-2-0-6	S	✓	✓	✓	
5		Embankment-2-6-12	S	✓	✓	✓	
6		Embankment-2-12-24	S	✓	✓	✓	
7		Embankment-3-0-6	S	✓	✓	✓	
8		Embankment-3-6-12	S	✓	✓	✓	
9		Embankment-3-12-24	S	✓	✓	✓	

TOTAL NUMBER OF CONTAINERS 9

RELINQUISHED BY: (Signature) <i>[Signature]</i>	DATE/TIME 02/26/02 14:00	RECEIVED BY: (Signature) <i>[Signature]</i>	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
METHOD OF SHIPMENT: Delivery received	SHIPPED BY: (Signature) <i>[Signature]</i>	COURIER: (Signature)	RECEIVED FOR LAB BY (Signature)	DATE/TIME	

[Handwritten signature] 2/21/02

Percent Moisture Summary Report

Date: 26-FEB-02
 Batch: 70384
 Analyst: MLT

Sample	Method	Date	Tare(g)	Wet(g)	Dry(g)	Percent Solids	Percent Moisture
157158-001	CLP SOW 390	26-FEB-02	15.8715	22.0278	21.1466	86	14
157158-002	CLP SOW 390	26-FEB-02	15.5342	21.6134	20.6691	84	16
157158-003	CLP SOW 390	26-FEB-02	15.791	21.9157	21.0461	86	14
157158-004	CLP SOW 390	26-FEB-02	15.811	22.7964	20.7429	71	29
157158-005	CLP SOW 390	26-FEB-02	15.9605	21.6094	19.7952	68	32
157158-006	CLP SOW 390	26-FEB-02	15.8041	21.9102	19.9557	68	32
157158-007	CLP SOW 390	26-FEB-02	15.0027	22.2825	17.9442	40	60
157158-008	CLP SOW 390	26-FEB-02	15.5708	21.5172	17.9031	39	61
157158-009	CLP SOW 390	26-FEB-02	15.1533	20.246	17.393	44	56
157163-001	CLP SOW 390	26-FEB-02	14.9656	20.7543	18.7506	65	35
157163-002	CLP SOW 390	26-FEB-02	15.3112	21.6321	19.3989	65	35
157163-003	CLP SOW 390	26-FEB-02	15.0023	20.5538	18.5245	63	37
QC171256	CLP SOW 390	26-FEB-02	15.9384	21.8408	20.9556	85	15
of 157158-001					RPD:	0.8%	4.7%

Copper

Lab #:	157158	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Sampled:	02/21/02
Matrix:	Soil	Received:	02/21/02
Units:	mg/Kg	Prepared:	02/25/02
Batch#:	70369		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Diln	Fac	Analyzed
EMBANKMENT-1-0-6	SAMPLE	157158-001	32	0.53	dry	14%	1.000		02/26/02
EMBANKMENT-1-6-12	SAMPLE	157158-002	44	0.54	dry	16%	1.000		02/26/02
EMBANKMENT-1-12-24	SAMPLE	157158-003	54	0.53	dry	14%	1.000		02/26/02
EMBANKMENT-2-0-6	SAMPLE	157158-004	1,000	0.52	dry	29%	1.000		02/26/02
EMBANKMENT-2-6-12	SAMPLE	157158-005	2,300	13	dry	32%	20.00		02/27/02
EMBANKMENT-2-12-24	SAMPLE	157158-006	750	0.69	dry	32%	1.000		02/26/02
EMBANKMENT-3-0-6	SAMPLE	157158-007	630	1.1	dry	60%	1.000		02/26/02
EMBANKMENT-3-6-12	SAMPLE	157158-008	620	0.99	dry	61%	1.000		02/26/02
EMBANKMENT-3-12-24	SAMPLE	157158-009	2,000	1.1	dry	56%	1.000		02/26/02
	BLANK	QC171202	ND	0.50	as received		1.000		02/25/02



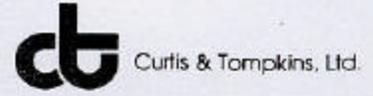
Copper			
Lab #:	157158	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	70369
Units:	mg/Kg	Prepared:	02/25/02
Basis:	as received	Analyzed:	02/25/02

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC171203	12.50	11.60	93	67-114		
BSD	QC171204	12.50	11.50	92	67-114	1	20

Copper

Lab #:	157158	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	70369
MSS Lab ID:	157150-012	Sampled:	02/20/02
Matrix:	Soil	Received:	02/21/02
Units:	mg/Kg	Prepared:	02/25/02
Basis:	as received	Analyzed:	02/25/02

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC171205	13.82	11.79	22.55	74	24-150		
MSD	QC171206		12.32	23.50	79	24-150	2	38





Zinc

Lab #:	157158	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Sampled:	02/21/02
Matrix:	Soil	Received:	02/21/02
Units:	mg/Kg	Prepared:	02/25/02
Batch#:	70369		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Diln	Fac	Analyzed
EMBANKMENT-1-0-6	SAMPLE	157158-001	84	1.1	dry	14%	1.000		02/26/02
EMBANKMENT-1-6-12	SAMPLE	157158-002	64	1.1	dry	16%	1.000		02/26/02
EMBANKMENT-1-12-24	SAMPLE	157158-003	55	1.1	dry	14%	1.000		02/26/02
EMBANKMENT-2-0-6	SAMPLE	157158-004	120	1.0	dry	29%	1.000		02/26/02
EMBANKMENT-2-6-12	SAMPLE	157158-005	200	1.3	dry	32%	1.000		02/26/02
EMBANKMENT-2-12-24	SAMPLE	157158-006	190	1.4	dry	32%	1.000		02/26/02
EMBANKMENT-3-0-6	SAMPLE	157158-007	360	2.2	dry	60%	1.000		02/26/02
EMBANKMENT-3-6-12	SAMPLE	157158-008	600	39	dry	61%	20.00		02/27/02
EMBANKMENT-3-12-24	SAMPLE	157158-009	1,600	43	dry	56%	20.00		02/27/02
	BLANK	QC171202	ND	1.0	as received		1.000		02/25/02

Zinc			
Lab #:	157158	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	70369
Units:	mg/Kg	Prepared:	02/25/02
Basis:	as received	Analyzed:	02/25/02

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC171203	25.00	20.80	83	57-119		
BSD	QC171204	25.00	20.70	83	57-119	0	20

Zinc

Lab #: 157158
 Client: URS Corporation
 Project#: 51-00070007.00-11100
 Analyte: Zinc
 Field ID: ZZZZZZZZZZ
 MSS Lab ID: 157150-012
 Matrix: Soil
 Units: mg/Kg
 Basis: as received

Location: Rhodia
 Prep: EPA 3050
 Analysis: EPA 6010B
 Diln Fac: 1.000
 Batch#: 70369
 Sampled: 02/20/02
 Received: 02/21/02
 Prepared: 02/25/02
 Analyzed: 02/25/02

Type	Lab ID	MSS Result	Spiked	Result	REC	Limits	RPD	Lim
MS	QC171205	22.27	23.58	36.60	61	20-146		
MSD	QC171206		24.63	38.33	65	20-146	2	37



Curtis & Tompkins, Ltd.

pH			
Lab #:	157158	Location:	Rhodia
Client:	URS Corporation	Analysis:	EPA 9045C
Project#:	51-00070007.00-11100		
Analyte:	pH	Batch#:	70449
Matrix:	Soil	Sampled:	02/21/02
Units:	SU	Received:	02/21/02
Diln Fac:	1.000	Analyzed:	02/27/02

Field ID	Lab ID	Result	RL
EMBANKMENT-1-0-6	157158-001	8.0	1.0
EMBANKMENT-1-6-12	157158-002	8.2	1.0
EMBANKMENT-1-12-24	157158-003	8.5	1.0
EMBANKMENT-2-0-6	157158-004	4.2	1.0
EMBANKMENT-2-6-12	157158-005	4.3	1.0
EMBANKMENT-2-12-24	157158-006	5.4	1.0
EMBANKMENT-3-0-6	157158-007	7.3	1.0
EMBANKMENT-3-6-12	157158-008	7.7	1.0
EMBANKMENT-3-12-24	157158-009	7.2	1.0



pH			
Lab #:	157158	Location:	Rhodia
Client:	URS Corporation	Analysis:	EPA 9045C
Project#:	51-00070007.00-11100		
Analyte:	pH	Units:	SU
Field ID:	EMBANKMENT-3-12-24	Diln Fac:	1.000
Type:	SDUP	Batch#:	70449
MSS Lab ID:	157158-009	Sampled:	02/21/02
Lab ID:	QC171495	Received:	02/21/02
Matrix:	Soil	Analyzed:	02/27/02

MSS Result	Result	RL	RPD	Lim
7.210	7.300	1.0	1	20



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

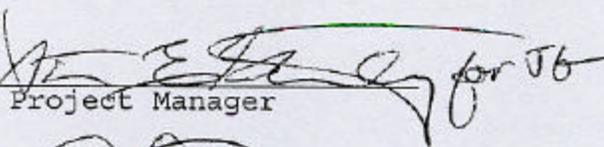
Prepared for:

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

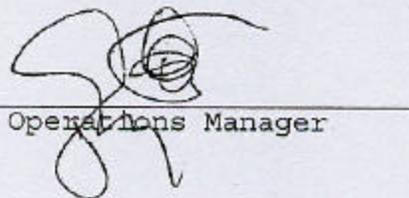
Date: 12-MAR-02
Lab Job Number: 157271
Project ID: 51-00070007.00-11100
Location: Rhodia

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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Curtis & Tompkins, Ltd.

Laboratory Numbers: **157271**
Client: **URS Corporation**
Project #: **51-00070007.00-11100**
Location: **Rhodia**

Sampled Date: **02/21-22/02**
: **03/01/02**
Received Date: **02/22/02**
03/01/02

CASE NARRATIVE

This hardcopy data package contains samples and QC results for thirty-four soil samples, which were received from the site referenced above on February 21st, 22nd and March 1, 2002. The samples were received intact. All results have been corrected for moisture.

Metals (EPA 6010B):

For sample spike of DT-3-1W-12-24 (CT# 157271-011), the recoveries for copper and zinc are considered not meaningful (NM) as the sample concentration for these elements are four times greater than the spiked level. No other analytical problems were encountered.

General Chemistry:

No analytical problems were encountered.

Particle Size:

PTS Laboratories, Inc. in Santa Fe Springs, California performed the analysis. No analytical problems were encountered.

URS-RHODIA INC.
AOC DELINEATION
PHASE III ANALYSES

Submitted to Curtis & Tompkins March 1, 2002

CT# 152271

CT#	Location TAT	Copper 48hr	Zinc 48hr	pH 48hr	%Moisture 48hr	TOC reg	Grain Size reg	Ammonia reg	Salinity reg
	S DT-1-1E-12-24-1		X	X	X	X	X	X	X
	5 DT-1-1W-12-24-2		X	X	X	X	X	X	X
	5 DT-1-2W-6-12-3		X	X	X	X	X	X	X
	5 DT-1-3W-0-6-4		X	X	X	X	X	X	X
	4 DT-2-1W-12-24-5	X	X	X	X	X	X	X	X
	4 DT-2-2W-6-12-6	X	X	X	X	X	X	X	X
	DT-2-3W-0-6-7	X	X	X	X	X	X	X	X
	2 DT-3-1E-12-24-8		X	X	X	X	X	X	X
	2 DT-3-2E-6-12-9		X	X	X	X	X	X	X
	1 DT-3-3E-0-6-10		X	X	X	X	X	X	X
	2 DT-3-1W-12-24-11		X	X	X	X	X	X	X
	2 DT-3-2W-6-12-12		X	X	X	X	X	X	X
	1 DT-3-3W-0-6-13		X	X	X	X	X	X	X
	1 DT-4-1E-12-24-13	X	X	X	X	X	X	X	X
	1 DT-4-2E-6-12-14	X	X	X	X	X	X	X	X
	1 DT-4-3E-0-6-15	X	X	X	X	X	X	X	X
	1 DT-4-1W-12-24-16		X	X	X	X	X	X	X
	3 DT-5-1E-12-24-17	X	X	X	X	X	X	X	X
	3 DT-5-2E-6-12-18	X	X	X	X	X	X	X	X
	DT-5-3E-0-6-19	X	X	X	X	X	X	X	X
	2 DT-5-1W-12-24-20	X	X	X	X	X	X	X	X
	2 DT-5-2W-6-12-21	X	X	X	X	X	X	X	X
	3 DT-6-2W-6-12-22	X	X	X	X	X	X	X	X
	3 DT-6-3W-0-6-23	X	X	X	X	X	X	X	X
	4 DT-8-1W-12-24-24		X	X	X	X	X	X	X
	4 DT-8-2W-6-12-25		X	X	X	X	X	X	X
	4 DT-8-3W-0-6-26		X	X	X	X	X	X	X
	4 DT-9-2W-6-12-27	X		X	X	X	X	X	X
	4 DT-9-3W-0-6-28	X		X	X	X	X	X	X
	DT-DUP-1 -29	X	X	X	X	X	X	X	X
	DT-DUP-2 -30	X	X	X	X	X	X	X	X
	DT-DUP-5 -31	X	X	X	X	X	X	X	X
	DT-DUP-6 -32	X	X	X	X	X	X	X	X
	DT-DUP-9 -33	X	X	X	X	X	X	X	X
	DT-DUP-11 -34	X	X	X	X	X	X	X	X

Note: All Duplicate Samples should be run on Regular TAT

Lot 1 75

#1

URS

500 12th Street, Suite 200
Oakland, CA 94607-4014
(510) 893-5600

Chain of Custody Record

PROJECT NO. 51-0007000700		ANALYSES										REMARKS (Sample preservation, handling procedures, etc.)	
SAMPLERS (Signature) <i>[Signature]</i>		Sample Matrix (Soil, Water, Air)	Total Solids	Loss on Ignition	pH	Sulfide	Ammonia	Nitrate	Nitrite	Cyanide	Mercury		Number of Containers
DATE	TIME											SAMPLE NUMBER	
3-31-02		M-3-3E-0-6	XXXXXX	2	Result to Heater Pond 510-874-3049								
		D-3-3E-6-12										2	
		DT-3-3E-12-24										2	Phase III Analytical Log/TAT
		DT-3-3W-0-6										2	
		DT-3-3W-6-12										2	Hold
		DT-2-3W-12-24										2	
		DT-DP-2										2	Analytical
		DT-DP-3										2	
		DT-DP-11										2	Sample? ANALYZE
		DT-DP-10										2	
		DT-4-1W-0-6										1	except marked- 2 Residual TAT Grain Size
		DT-4-1W-6-12										2	
		DT-4-1W-12-24										2	Rush 48h Res TAT
		DT-4-1E-0-6										2	
		DT-4-1E-6-12										2	
		DT-4-1E-12-24										2	
		DT-4-2E-0-6										2	
		DT-4-2E-6-12										2	
		DT-4-2E-12-24										2	
		DT-4-3E-0-6										2	
		DT-4-3E-6-12										2	
		DT-4-3E-12-24										2	

Hold All SAMPLES except *[initials]* TOTAL NUMBER OF CONTAINERS 42

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
METHOD OF SHIPMENT:	SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY: (Signature)	DATE/TIME	

over

2

URS Greiner Woodward Clyde
500 12th Street, Suite 200, Oakland, CA 94607-4014
510.893.3600

Chain of Custody Record

PROJECT NO.
S-00070007.00
SAMPLERS: (Signature)
DATE TIME SAMPLE NUMBER

ANALYSES									
Sample Matrix (Spot, W/plate, Air)	Chloride	EBAL Method	EBAL Method - H	EBAL Method - Moisture	PC	Arsenic	Sulfide	Other	

REMARKS (Sample preservation procedures, etc.)
Phase III Reg TAT

02/21/02	DT-3-1E-12-24	S	X	X	X	X	X	X	X	X	1
	DT-3-1E-12-24	S	X	X	X	X	X	X	X	X	1
	DT-3-2W-0-6	S	✓	✓	✓	✓	✓	✓	✓	✓	2
	DT-3-2W-6-12	S	X	X	X	X	X	X	X	X	2
	DT-3-2W-12-24	S	✓	✓	✓	✓	✓	✓	✓	✓	2
	DT-3-2E-0-6	S	✓	✓	✓	✓	✓	✓	✓	✓	2
	DT-3-2E-6-12	S	X	X	X	X	X	X	X	X	2
	DT-3-2E-12-24	S	✓	✓	✓	✓	✓	✓	✓	✓	2
	DT-3-3E-0-6	S	✓	✓	✓	✓	✓	✓	✓	✓	2
	DT-3-3E-6-12	S	✓	✓	✓	✓	✓	✓	✓	✓	2
	DT-3-3E-12-24	S	✓	✓	✓	✓	✓	✓	✓	✓	2
	DT-3-1E-6-12	S									1
	DT-3-1E-0-6	S									1
	DT-3-1W-0-6	S									1
	DT-3-1W-6-12	S									1
02/22/02	DT-5-1E-0-6	S									1
	DT-5-1E-6-12	S									2
	DT-5-1E-12-24	S	X	X	X	X	X	X	X	X	2
	DT-5-1W-0-6	S									1
	DT-5-1W-6-12	S	✓	✓	✓	✓	✓	✓	✓	✓	2
	DT-5-1W-12-24	S	X	X	X	X	X	X	X	X	2
	DT-5-2E-0-6	S	✓	✓	✓	✓	✓	✓	✓	✓	2
	DT-5-2E-6-12	S	X	X	X	X	X	X	X	X	2
	DT-5-2E-12-24	S	✓	✓	✓	✓	✓	✓	✓	✓	2
	DT-5-2W-0-6	S	✓	✓	✓	✓	✓	✓	✓	✓	2
	DT-5-2W-6-12	S	X	X	X	X	X	X	X	X	2
	DT-5-2W-12-24	S	✓	✓	✓	✓	✓	✓	✓	✓	2

Results to Health P&H
510-874-3049

HOLD ALL SAMPLES
except marked

Analyse Results TAT

Analyse Results TAT

Analyse Results TAT

HOLD ALL ANALYSES!

TOTAL NUMBER OF CONTAINERS
49

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
METHOD OF SHIPMENT:	SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY: (Signature)	DATE/TIME	

7 06 7

(10/11)

(14)

URS

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

Chain of Custody Record

PROJECT NO. 1100 SI-002002 00			ANALYSES							Number of Containers	REMARKS (Sample preservation, handling procedures, etc.)
SAMPLERS (Signature) <i>[Signature]</i>			Sample Matrix: (Soil, Water, Air)	Copper	Zinc	pH	Ammonia	Salinity	Sulfide		
DATE	TIME	SAMPLE NUMBER									
04/22/02		DT-8-1W-6-12		XXXXXX	XXXXXX					2	Results to Heater Phil 510-874-3049 Hold All SAMPLES!
		DT-8-1W-12-24		XXXXXX	XXXXXX						
		DT-8-2W-0-6		XXXXXX	XXXXXX						
		DT-8-2W-6-12		XXXXXX	XXXXXX						
		DT-8-2W-12-24		XXXXXX	XXXXXX						
		DT-8-3W-0-6		XXXXXX	XXXXXX						
		DT-8-3W-6-12									
		DT-8-3W-12-24									
		DT-9-1W-6-12									
		DT-9-1W-12-24									
		DT-9-2W-0-6		XXXXXX	XXXXXX						
		DT-9-2W-6-12		XXXXXX	XXXXXX						
		DT-9-2W-12-24									
		DT-9-3W-0-6		XXXXXX	XXXXXX						
		DT-9-3W-6-12									
		DT-9-3W-12-24									
		DT-2-1E-6-12								2	
		DT-2-1E-12-24									
		DT-2-2E-0-6									
		DT-2-2E-6-12									
		DT-2-2E-12-24									
		DT-2-3E-0-6									
		DT-2-3E-6-12									
		DT-2-3E-12-24									
		DT-7-1W-6-12									
		DT-7-1W-12-24		XXXXXX	XXXXXX						
		DT-7-2W-0-6									
		DT-7-2W-6-12		XXXXXX	XXXXXX						
HOLD ALL SAMPLES										TOTAL NUMBER OF CONTAINERS	30
RELINQUISHED BY: (Signature)			DATE/TIME	RECEIVED BY: (Signature)			DATE/TIME	RECEIVED BY: (Signature)			
METHOD OF SHIPMENT:			SHIPPED BY: (Signature)	COURIER: (Signature)			RECEIVED FOR LAB BY: (Signature)		DATE/TIME		

Phase III

Analytical Phase III

USNY ROSTAT

USNY ROSTAT

URS

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

Chain of Custody Record

PROJECT NO.
51.02770007-02

SAMPLERS: (Signature)
[Signature]

DATE TIME SAMPLE NUMBER

ANALYSES						
Sample Matrix (Soil, Water, Air)	EPA Method	EPA Method	EPA Method	EPA Method	TOT	Other
	✓	✓	✓	✓	✓	✓

Number of Containers

REMARKS
(Sample preservation, handling procedures, etc.)

02/21/02	14:45	DT-1-1E-6-12	S	✓	✓	✓	✓	✓	✓	✓	3	- HOLD		
	14:45	DT-3-1W-6-12	S								1	- HOLD		
	13:30	DT-1-1W-6-12	S								3	- HOLD		
	13:50	DT-3-1E-6-12	S								1	- HOLD		
DT-1-1E-12-24				XXXXXXXXXX (no copy)										ANALYZE
DT-1-3W-0-6				XXXXXXXXXX (no copy)										ANALYZE
		DT-1-3W-6-12	S								2	- HOLD		
		DT-1-3W-12-24	S								2	- HOLD		
		DT-1-3W-0-6	S								2	- HOLD		
DT-1-2W-0-6				XXXXXXXXXX (no copy)										ANALYZE
		DT-1-2W-12-24	S								2	- HOLD		
		DT-1-1W-0-6	S								1	- ANALYZE		
DT-1-1W-12-24				XXXXXXXXXX (no copy)										ANALYZE
		DT-1-2E-0-6	S								2	- HOLD		
		DT-1-2E-6-12	S								2	- HOLD		
		DT-1-2E-12-24	S								2	- HOLD		
		DT-1-3E-0-6	S								2	- HOLD		
		DT-1-3E-6-12	S								2	- HOLD		
		DT-1-3E-12-24	S								2	- ANALYZE		
		DT-7-1W-0-6	S								1	- ANALYZE		
		DT-8-1W-0-6	S								1	- ANALYZE		
		DT-2-1E-0-6	S								2	- ANALYZE		
		DT-2-1W-0-6	S								2	- ANALYZE		

Handwritten notes: "Case III", "1/27/02", "1/28/02"

Handwritten notes: "48W", "Res TAR"

Vertical handwritten notes on the right side: "Nil...", "Hold...", "ANALYZE", "1/27/02", "1/28/02", "1/29/02", "1/30/02", "1/31/02", "2/1/02", "2/2/02", "2/3/02", "2/4/02", "2/5/02", "2/6/02", "2/7/02", "2/8/02", "2/9/02", "2/10/02", "2/11/02", "2/12/02", "2/13/02", "2/14/02", "2/15/02", "2/16/02", "2/17/02", "2/18/02", "2/19/02", "2/20/02", "2/21/02", "2/22/02", "2/23/02", "2/24/02", "2/25/02", "2/26/02", "2/27/02", "2/28/02", "2/29/02", "2/30/02", "3/1/02", "3/2/02", "3/3/02", "3/4/02", "3/5/02", "3/6/02", "3/7/02", "3/8/02", "3/9/02", "3/10/02", "3/11/02", "3/12/02", "3/13/02", "3/14/02", "3/15/02", "3/16/02", "3/17/02", "3/18/02", "3/19/02", "3/20/02", "3/21/02", "3/22/02", "3/23/02", "3/24/02", "3/25/02", "3/26/02", "3/27/02", "3/28/02", "3/29/02", "3/30/02", "3/31/02", "4/1/02", "4/2/02", "4/3/02", "4/4/02", "4/5/02", "4/6/02", "4/7/02", "4/8/02", "4/9/02", "4/10/02", "4/11/02", "4/12/02", "4/13/02", "4/14/02", "4/15/02", "4/16/02", "4/17/02", "4/18/02", "4/19/02", "4/20/02", "4/21/02", "4/22/02", "4/23/02", "4/24/02", "4/25/02", "4/26/02", "4/27/02", "4/28/02", "4/29/02", "4/30/02", "5/1/02", "5/2/02", "5/3/02", "5/4/02", "5/5/02", "5/6/02", "5/7/02", "5/8/02", "5/9/02", "5/10/02", "5/11/02", "5/12/02", "5/13/02", "5/14/02", "5/15/02", "5/16/02", "5/17/02", "5/18/02", "5/19/02", "5/20/02", "5/21/02", "5/22/02", "5/23/02", "5/24/02", "5/25/02", "5/26/02", "5/27/02", "5/28/02", "5/29/02", "5/30/02", "5/31/02", "6/1/02", "6/2/02", "6/3/02", "6/4/02", "6/5/02", "6/6/02", "6/7/02", "6/8/02", "6/9/02", "6/10/02", "6/11/02", "6/12/02", "6/13/02", "6/14/02", "6/15/02", "6/16/02", "6/17/02", "6/18/02", "6/19/02", "6/20/02", "6/21/02", "6/22/02", "6/23/02", "6/24/02", "6/25/02", "6/26/02", "6/27/02", "6/28/02", "6/29/02", "6/30/02", "7/1/02", "7/2/02", "7/3/02", "7/4/02", "7/5/02", "7/6/02", "7/7/02", "7/8/02", "7/9/02", "7/10/02", "7/11/02", "7/12/02", "7/13/02", "7/14/02", "7/15/02", "7/16/02", "7/17/02", "7/18/02", "7/19/02", "7/20/02", "7/21/02", "7/22/02", "7/23/02", "7/24/02", "7/25/02", "7/26/02", "7/27/02", "7/28/02", "7/29/02", "7/30/02", "7/31/02", "8/1/02", "8/2/02", "8/3/02", "8/4/02", "8/5/02", "8/6/02", "8/7/02", "8/8/02", "8/9/02", "8/10/02", "8/11/02", "8/12/02", "8/13/02", "8/14/02", "8/15/02", "8/16/02", "8/17/02", "8/18/02", "8/19/02", "8/20/02", "8/21/02", "8/22/02", "8/23/02", "8/24/02", "8/25/02", "8/26/02", "8/27/02", "8/28/02", "8/29/02", "8/30/02", "8/31/02", "9/1/02", "9/2/02", "9/3/02", "9/4/02", "9/5/02", "9/6/02", "9/7/02", "9/8/02", "9/9/02", "9/10/02", "9/11/02", "9/12/02", "9/13/02", "9/14/02", "9/15/02", "9/16/02", "9/17/02", "9/18/02", "9/19/02", "9/20/02", "9/21/02", "9/22/02", "9/23/02", "9/24/02", "9/25/02", "9/26/02", "9/27/02", "9/28/02", "9/29/02", "9/30/02", "10/1/02", "10/2/02", "10/3/02", "10/4/02", "10/5/02", "10/6/02", "10/7/02", "10/8/02", "10/9/02", "10/10/02", "10/11/02", "10/12/02", "10/13/02", "10/14/02", "10/15/02", "10/16/02", "10/17/02", "10/18/02", "10/19/02", "10/20/02", "10/21/02", "10/22/02", "10/23/02", "10/24/02", "10/25/02", "10/26/02", "10/27/02", "10/28/02", "10/29/02", "10/30/02", "10/31/02", "11/1/02", "11/2/02", "11/3/02", "11/4/02", "11/5/02", "11/6/02", "11/7/02", "11/8/02", "11/9/02", "11/10/02", "11/11/02", "11/12/02", "11/13/02", "11/14/02", "11/15/02", "11/16/02", "11/17/02", "11/18/02", "11/19/02", "11/20/02", "11/21/02", "11/22/02", "11/23/02", "11/24/02", "11/25/02", "11/26/02", "11/27/02", "11/28/02", "11/29/02", "11/30/02", "12/1/02", "12/2/02", "12/3/02", "12/4/02", "12/5/02", "12/6/02", "12/7/02", "12/8/02", "12/9/02", "12/10/02", "12/11/02", "12/12/02", "12/13/02", "12/14/02", "12/15/02", "12/16/02", "12/17/02", "12/18/02", "12/19/02", "12/20/02", "12/21/02", "12/22/02", "12/23/02", "12/24/02", "12/25/02", "12/26/02", "12/27/02", "12/28/02", "12/29/02", "12/30/02", "12/31/02"

TOTAL NUMBER OF CONTAINERS: 46

RELINQUISHED BY: (Signature) <i>[Signature]</i>	DATE/TIME 2/27/02	RECEIVED BY: (Signature) <i>[Signature]</i>	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
METHOD OF SHIPMENT TRUCK	SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY: (Signature)	DATE/TIME	

Copper			
Lab #:	157271	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Received:	02/22/02
Units:	mg/Kg	Analyzed:	03/05/02

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared
DT-2-1W-12-24	SAMPLE	157271-005	1,200	0.95	dry	61%	70547	02/22/02	03/04/02
DT-2-2W-6-12	SAMPLE	157271-006	2,200	2.2	dry	79%	70547	02/22/02	03/04/02
DT-2-3W-0-6	SAMPLE	157271-007	320	2.3	dry	80%	70547	02/21/02	03/04/02
DT-4-1E-12-24	SAMPLE	157271-013	500	0.99	dry	54%	70547	02/22/02	03/04/02
DT-4-2E-6-12	SAMPLE	157271-014	570	1.0	dry	52%	70547	02/22/02	03/04/02
DT-4-3E-0-6	SAMPLE	157271-015	130	0.84	dry	51%	70547	02/22/02	03/04/02
DT-5-1E-12-24	SAMPLE	157271-017	680	0.81	dry	55%	70547	02/21/02	03/04/02
DT-5-2E-6-12	SAMPLE	157271-018	660	0.94	dry	49%	70547	02/21/02	03/04/02
DT-5-3E-0-6	SAMPLE	157271-019	610	1.7	dry	75%	70547	02/21/02	03/04/02
DT-5-1W-12-24	SAMPLE	157271-020	660	0.69	dry	43%	70547	02/22/02	03/04/02
DT-5-2W-6-12	SAMPLE	157271-021	310	0.80	dry	47%	70574	02/22/02	03/05/02
DT-6-2W-6-12	SAMPLE	157271-022	260	0.80	dry	39%	70574	02/21/02	03/05/02
DT-6-3W-0-6	SAMPLE	157271-023	440	0.81	dry	39%	70574	02/21/02	03/05/02
T-9-2W-6-12	SAMPLE	157271-027	490	0.75	dry	41%	70574	02/22/02	03/05/02
I-9-3W-0-6	SAMPLE	157271-028	560	1.4	dry	67%	70574	02/22/02	03/05/02
DT-DUP-1	SAMPLE	157271-029	130	0.61	dry	32%	70574	02/21/02	03/05/02
DT-DUP-2	SAMPLE	157271-030	360	0.79	dry	38%	70574	02/22/02	03/05/02
DT-DUP-5	SAMPLE	157271-031	310	0.83	dry	41%	70574	02/21/02	03/05/02
DT-DUP-6	SAMPLE	157271-032	720	0.93	dry	52%	70574	02/21/02	03/05/02
DT-DUP-9	SAMPLE	157271-033	1,000	0.88	dry	52%	70574	02/21/02	03/05/02
DT-DUP-11	SAMPLE	157271-034	2,400	1.5	dry	68%	70574	02/21/02	03/05/02
	BLANK	QC171856	ND	0.50	as received		70547		03/04/02
	BLANK	QC171968	ND	0.50	as received		70574		03/05/02



Copper			
Lab #:	157271	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	70547
Units:	mg/Kg	Prepared:	03/04/02
Basis:	as received	Analyzed:	03/05/02

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC171857	12.50	10.39	83	72-120		
BSD	QC171858	12.50	10.43	83	72-120	0	20

Copper			
Lab #:	157271	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Basis:	dry
Field ID:	DT-3-1W-12-24	Diln Fac:	1.000
Type:	SDUP	Batch#:	70547
MSS Lab ID:	157271-011	Sampled:	02/21/02
Lab ID:	QC171859	Received:	02/22/02
Matrix:	Soil	Prepared:	03/04/02
Units:	mg/Kg	Analyzed:	03/05/02

MSS Result	Result	RL	Moisture	RPD	Lim
122.1	125.2	0.59	33%	3	40



Copper			
Lab #:	157271	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Basis:	dry
Field ID:	DT-3-1W-12-24	Diln Fac:	1.000
Type:	SSPIKE	Batch#:	70547
MSS Lab ID:	157271-011	Sampled:	02/21/02
Lab ID:	QC171860	Received:	02/22/02
Matrix:	Soil	Prepared:	03/04/02
Units:	mg/Kg	Analyzed:	03/05/02

MSS Result	Spiked	Result	%REC	Limits	Moisture
122.1	18.29	134.1	66 NM	62-150	33%

Copper			
Lab #:	157271	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	70574
Units:	mg/Kg	Prepared:	03/05/02
Basis:	as received	Analyzed:	03/05/02

Type	Lab ID	Spiked	Result	REC	Limits	RPD	Lim
BS	QC171969	12.50	10.47	84	72-120		
BSD	QC171970	12.50	10.24	82	72-120	2	20

Copper

Lab #: 157271
 Client: URS Corporation
 Project#: 51-00070007.00-11100
 Analyte: Copper
 Field ID: ZZZZZZZZZZ
 MSS Lab ID: 157230-001
 Matrix: Soil
 Units: mg/Kg
 Basis: as received

Location: Rhodia
 Prep: BPA 3050
 Analysis: BPA 6010B
 Diln Fac: 1.000
 Batch#: 70574
 Sampled: 02/27/02
 Received: 02/27/02
 Prepared: 03/05/02
 Analyzed: 03/05/02

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC171971	7.827	11.57	16.50	75	62-150		
MSD	QC171972		12.14	16.80	74	62-150	1	40



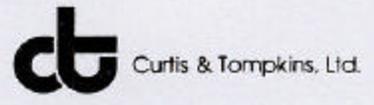
Zinc

Lab #: 157271
 Client: URS Corporation
 Project#: 51-00070007.00-11100
 Analyte: Zinc
 Matrix: Soil
 Units: mg/Kg

Location: Rhodia
 Prep: EPA 3050
 Analysis: EPA 6010B
 Diln Fac: 1.000
 Analyzed: 03/05/02

Field ID	Type	Lab ID	Result	PL	Mass	Moisture	Batch#	Sampled	Received	Prepared
DT-1-1B-12-24	SAMPLE	157271-001	1,300	1.9	dry	484	70547	02/21/02	02/22/02	03/04/02
DT-1-1W-12-24	SAMPLE	157271-002	820	1.9	dry	494	70547	02/21/02	02/22/02	03/04/02
DT-1-2W-6-12	SAMPLE	157271-003	1,200	2.5	dry	624	70547	02/21/02	02/23/02	03/04/02
DT-1-3W-0-6	SAMPLE	157271-004	140	1.9	dry	544	70547	02/21/02	02/22/02	03/04/02
DT-2-1W-12-24	SAMPLE	157271-005	4,200	1.9	dry	614	70547	02/22/02	02/22/02	03/04/02
DT-2-2W-6-12	SAMPLE	157271-006	6,300	4.3	dry	794	70547	02/22/02	02/22/02	03/04/02
DT-2-3W-0-6	SAMPLE	157271-007	880	4.7	dry	804	70547	02/21/02	02/22/02	03/04/02
DT-3-1E-12-24	SAMPLE	157271-008	1,300	1.8	dry	504	70547	02/21/02	02/22/02	03/04/02
DT-3-2E-6-12	SAMPLE	157271-009	2,000	1.8	dry	494	70547	02/21/02	02/22/02	03/04/02
DT-3-3E-0-6	SAMPLE	157271-010	1,800	2.6	dry	714	70547	02/21/02	02/22/02	03/04/02
DT-3-1W-12-24	SAMPLE	157271-011	500	1.4	dry	334	70547	02/21/02	02/22/02	03/04/02
DT-3-2W-6-12	SAMPLE	157271-012	410	1.3	dry	304	70547	02/21/02	02/22/02	03/04/02
DT-4-1E-12-24	SAMPLE	157271-013	530	2.0	dry	544	70547	02/22/02	02/22/02	03/04/02
DT-4-2E-6-12	SAMPLE	157271-014	480	2.0	dry	524	70547	02/22/02	02/22/02	03/04/02
DT-4-3E-0-6	SAMPLE	157271-015	300	1.7	dry	514	70547	02/22/02	02/22/02	03/04/02
DT-4-1W-12-24	SAMPLE	157271-016	980	2.0	dry	514	70547	02/22/02	02/22/02	03/04/02
DT-5-1E-12-24	SAMPLE	157271-017	1,900	1.6	dry	554	70547	02/21/02	02/22/02	03/04/02
DT-5-2E-6-12	SAMPLE	157271-018	1,500	1.9	dry	494	70547	02/21/02	02/22/02	03/04/02

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



Zinc

Lab #: 157271
 Client: URS Corporation
 Project#: 51-00070007.00-11100
 Analyte: Zinc
 Matrix: Soil
 Units: mg/Kg
 Location: Rhodia
 Prep: EPA 3050
 Analysis: EPA 6010B
 Diln Fac: 1.000
 Analyzed: 03/05/02

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Match#	Sampled	Received	Prepared
DT-5-3E-0-6	SAMPLE	157271-019	670	3.5	dry	75%	70547	02/21/02	02/22/02	03/04/02
DT-5-1W-12-24	SAMPLE	157271-020	1,200	1.4	dry	43%	70547	02/22/02	02/22/02	03/04/02
DT-5-2W-6-12	SAMPLE	157271-021	500	1.6	dry	47%	70574	02/22/02	02/22/02	03/05/02
DT-6-2W-6-12	SAMPLE	157271-022	420	1.6	dry	39%	70574	02/21/02	02/22/02	03/05/02
DT-6-3W-0-6	SAMPLE	157271-023	590	1.6	dry	39%	70574	02/21/02	02/22/02	03/05/02
DT-8-1W-12-24	SAMPLE	157271-024	250	1.7	dry	54%	70574	02/22/02	02/22/02	03/05/02
DT-8-2W-6-12	SAMPLE	157271-025	250	1.5	dry	45%	70574	02/22/02	02/22/02	03/05/02
DT-8-3W-0-6	SAMPLE	157271-026	610	3.1	dry	71%	70574	02/22/02	02/22/02	03/05/02
DT-DUP-1	SAMPLE	157271-029	740	1.2	dry	32%	70574	02/21/02	02/22/02	03/05/02
DT-DUP-2	SAMPLE	157271-030	230	1.6	dry	38%	70574	02/22/02	02/22/02	03/05/02
DT-DUP-5	SAMPLE	157271-031	240	1.7	dry	41%	70574	02/21/02	02/22/02	03/05/02
DT-DUP-6	SAMPLE	157271-032	570	1.9	dry	52%	70574	02/21/02	02/22/02	03/05/02
DT-DUP-9	SAMPLE	157271-033	3,100	1.8	dry	52%	70574	02/21/02	02/22/02	03/05/02
DT-DUP-11	SAMPLE	157271-034	2,000	3.1	dry	68%	70574	02/21/02	02/22/02	03/05/02
	BLANK	QC171856	ND	1.0	as received		70547	02/21/02	02/22/02	03/04/02
	BLANK	QC171968	ND	1.0	as received		70574	02/21/02	02/22/02	03/05/02

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



Curtis & Tompkins, Ltd.

Zinc			
Lab #:	157271	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	70547
Units:	mg/Kg	Prepared:	03/04/02
Basis:	as received	Analyzed:	03/05/02

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC171857	25.00	21.30	85	65-120		
BSD	QC171858	25.00	21.28	85	65-120	0	20



Zinc			
Lab #:	157271	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Basis:	dry
Field ID:	DT-3-1W-12-24	Diln Fac:	1.000
Type:	SDUP	Batch#:	70547
MSS Lab ID:	157271-011	Sampled:	02/21/02
Lab ID:	QC171859	Received:	02/22/02
Matrix:	Soil	Prepared:	03/04/02
Units:	mg/Kg	Analyzed:	03/05/02

MSS Result	Result	RL	Moisture	RPD	Lim
500.6	496.1	1.2	33%	1	38

Zinc			
Lab #:	157271	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Basis:	dry
Field ID:	DT-3-1W-12-24	Diln Fac:	1.000
Type:	SSPIKE	Batch#:	70547
MSS Lab ID:	157271-011	Sampled:	02/21/02
Lab ID:	QC171860	Received:	02/22/02
Matrix:	Soil	Prepared:	03/04/02
Units:	mg/Kg	Analyzed:	03/05/02

MSS Result	Spiked	Result	%REC	Limits	Moisture
500.6	36.58	504.4	10 NM	55-150	33%

Zinc			
Lab #:	157271	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	70574
Units:	mg/Kg	Prepared:	03/05/02
Basis:	as received	Analyzed:	03/05/02

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC171969	25.00	21.17	85	65-120		
BSD	QC171970	25.00	21.04	84	65-120	1	20

Zinc

Lab #:	157271	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	70574
MSS Lab ID:	157230-001	Sampled:	02/27/02
Matrix:	Soil	Received:	02/27/02
Units:	mg/Kg	Prepared:	03/05/02
Basis:	as received	Analyzed:	03/05/02

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC171971	73.27	23.15	101.5	122	55-150	14	38
MSD	QC171972		24.27	88.88	64	55-150	14	38





Curtis & Tompkins, Ltd.

pH			
Lab #:	157271	Location:	Rhodia
Client:	URS Corporation	Analysis:	EPA 9045C
Project#:	51-00070007.00-11100		
Analyte:	pH	Diln Fac:	1.000
Matrix:	Soil	Analyzed:	03/05/02
Units:	SU		

Field ID	Lab ID	Result	RL	Batch#	Sampled	Received
DT-1-1E-12-24	157271-001	7.7	1.0	70608	02/21/02	02/22/02
DT-1-1W-12-24	157271-002	6.9	1.0	70608	02/21/02	02/22/02
DT-1-2W-6-12	157271-003	6.9	1.0	70608	02/21/02	02/23/02
DT-1-3W-0-6	157271-004	7.1	1.0	70608	02/21/02	02/22/02
DT-2-1W-12-24	157271-005	7.2	1.0	70608	02/22/02	02/22/02
DT-2-2W-6-12	157271-006	7.1	1.0	70608	02/22/02	02/22/02
DT-2-3W-0-6	157271-007	7.0	1.0	70608	02/21/02	02/22/02
DT-3-1E-12-24	157271-008	7.7	1.0	70608	02/21/02	02/22/02
DT-3-2E-6-12	157271-009	7.4	1.0	70608	02/21/02	02/22/02
DT-3-3E-0-6	157271-010	6.5	1.0	70608	02/21/02	02/22/02
DT-3-1W-12-24	157271-011	6.6	1.0	70608	02/21/02	02/22/02
DT-3-2W-6-12	157271-012	6.3	1.0	70608	02/21/02	02/22/02
DT-4-1E-12-24	157271-013	7.0	1.0	70608	02/22/02	02/22/02
DT-4-2E-6-12	157271-014	6.8	1.0	70608	02/22/02	02/22/02
DT-4-3E-0-6	157271-015	7.4	1.0	70608	02/22/02	02/22/02
DT-4-1W-12-24	157271-016	7.0	1.0	70608	02/22/02	02/22/02
DT-5-1E-12-24	157271-017	7.1	1.0	70608	02/21/02	02/22/02
DT-5-2E-6-12	157271-018	6.7	1.0	70608	02/21/02	02/22/02
DT-5-3E-0-6	157271-019	6.8	1.0	70608	02/21/02	02/22/02
DT-5-1W-12-24	157271-020	6.9	1.0	70609	02/22/02	02/22/02
DT-5-2W-6-12	157271-021	6.9	1.0	70609	02/22/02	02/22/02
DT-6-2W-6-12	157271-022	4.5	1.0	70609	02/21/02	02/22/02
DT-6-3W-0-6	157271-023	4.5	1.0	70609	02/21/02	02/22/02
DT-8-1W-12-24	157271-024	5.1	1.0	70609	02/22/02	02/22/02
DT-8-2W-6-12	157271-025	6.1	1.0	70609	02/22/02	02/22/02
DT-8-3W-0-6	157271-026	6.6	1.0	70609	02/22/02	02/22/02
DT-9-2W-6-12	157271-027	4.6	1.0	70609	02/22/02	02/22/02
DT-9-3W-0-6	157271-028	5.6	1.0	70609	02/22/02	02/22/02
DT-DUP-1	157271-029	4.9	1.0	70609	02/21/02	02/22/02
DT-DUP-2	157271-030	5.5	1.0	70609	02/22/02	02/22/02
DT-DUP-5	157271-031	5.3	1.0	70609	02/21/02	02/22/02
DT-DUP-6	157271-032	6.2	1.0	70609	02/21/02	02/22/02
DT-DUP-9	157271-033	7.3	1.0	70609	02/21/02	02/22/02
DT-DUP-11	157271-034	6.5	1.0	70609	02/21/02	02/22/02

RL= Reporting Limit

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Curtis & Tompkins, Ltd.

pH			
Lab #:	157271	Location:	Rhodia
Client:	URS Corporation	Analysis:	EPA 9045C
Project#:	51-00070007.00-11100		
Analyte:	pH	Diln Fac:	1.000
Type:	SDUP	Sampled:	02/21/02
Matrix:	Soil	Received:	02/22/02
Units:	SU	Analyzed:	03/05/02

Field ID	MSS Lab ID	Lab ID	MSS Result	Result	RL	RPD	Lim	Batch#
DT-1-1E-12-24	157271-001	QC172101	7.690	7.590	1.0	1	20	70608
DT-DUP-11	157271-034	QC172102	6.530	6.400	1.0	2	20	70609



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

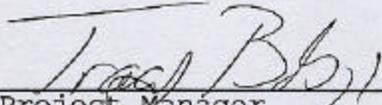
Prepared for:

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

Date: 11-MAR-02
Lab Job Number: 157107
Project ID: 51-00070007.00-11100
Location: Rhodia

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

Chain of Custody Record

RUSH

157107

PROJECT NO. SI-20070007.00 - 111# d			ANALYSES							Number of Containers	REMARKS (Sample preservation, handling procedures, etc.)					
SAMPLERS: (Signature) Chris Gurr			Sample Matrix (Soil, Water, Air)	EPA Method	STD											
DATE	TIME	SAMPLE NUMBER								Cu & Zn	pH	Moisture	TOC	Grain Size	Ammonia	Salinity
2/20	1330	DT1-1E-0-6	S					X	X	X	X	X	X	X	1	RUSH TAT ON ZN & Cu & pH
		DT1-1E-0-6														
		DT1-1E-0-6														
	1335	DT1-1W-0-6	S					X	Y	X	X	X	X	X	1	Moisture (484E)
		DT2-1E-0-6														
		DT3-1W-0-6														
	1326	DT3-1E-0-6	S					X	X	X	X	X	X	X	1	STANDARD TAT ON Grain Size
	1330	DT3-1W-0-6	S					X	X	X	X	X	X	X	1	Ammonia & Salinity & TOC
	1325	DT4-1E-0-6	S					X	X	X	X	X	X	X	1	
	1320	DT4-1W-0-6	S					X	X	X	X	X	X	X	1	
	1305	DT5-1E-0-6	S					X	X	X	X	X	X	X	1	
	1310	DT5-1W-0-6	S					X	X	X	X	X	X	X	1	Fax or Email Results to HEATHER POHL @ 510 874.3268
		DT6-1E-0-6														
	1400	DT6-1W-0-6	S					X	X	X	X	X	X	X	1	HEATHER POHL @ 510 874.3268
		DT7-1E-0-6														
		DT8-1W-0-6														
		DT8-1E-0-6														
		DT8-1W-0-6														
		DT9-1E-0-6														
		DT9-1W-0-6														

Received On Ice
 Cold Ambient Intact

TOTAL NUMBER OF CONTAINERS 9

RELINQUISHED BY: (Signature) <i>Chris Gurr</i>	DATE/TIME 2/20/1600	RECEIVED BY: (Signature) <i>Tracy Blair</i>	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
METHOD OF SHIPMENT:		SHIPPER BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY (Signature)	DATE/TIME

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Percent Moisture Summary Report

Date: 21-FEB-02
 Batch: 70291
 Analyst: MLT

Sample	Method	Date	Tare(g)	Wet(g)	Dry(g)	Percent Solids	Percent Moisture
157107-001	CLP SOW 390	21-FEB-02	15.5246	21.4705	17.9992	42	58
157107-002	CLP SOW 390	21-FEB-02	15.3997	20.6316	17.0439	31	69
157107-003	CLP SOW 390	21-FEB-02	15.4084	20.4815	17.2571	36	64
157107-004	CLP SOW 390	21-FEB-02	15.3078	18.8674	16.6327	37	63
157107-005	CLP SOW 390	21-FEB-02	15.5451	22.0881	18.1536	40	60
157107-006	CLP SOW 390	21-FEB-02	15.6648	21.792	18.6687	49	51
157107-007	CLP SOW 390	21-FEB-02	15.7682	20.2129	17.5825	41	59
157107-008	CLP SOW 390	21-FEB-02	15.0125	21.3536	17.7423	43	57
157107-009	CLP SOW 390	21-FEB-02	16.0044	22.9501	19.6068	52	48
QC170901	CLP SOW 390	21-FEB-02	14.9839	21.2001	17.7858	45	55
of 157107-001					RPD:	8.0%	6.1%



pH			
Lab #:	157107	Location:	Rhodia
Client:	URS Corporation	Analysis:	EPA 9045C
Project#:	51-00070007.00-11100		
Analyte:	pH	Batch#:	70318
Matrix:	Soil	Sampled:	02/20/02
Units:	SU	Received:	02/20/02
Diln Fac:	1.000	Analyzed:	02/21/02

Field ID	Lab ID	Result	RL
DT1-1E-0-6	157107-001	7.2	1.0
DT1-1W-0-6	157107-002	7.4	1.0
DT3-1E-0-6	157107-003	7.5	1.0
DT3-1W-0-6	157107-004	4.7	1.0
DT4-1E-0-6	157107-005	7.0	1.0
DT4-1W-0-6	157107-006	7.1	1.0
DT5-1E-0-6	157107-007	5.3	1.0
DT5-1W-0-6	157107-008	5.6	1.0
DT6-1W-0-6	157107-009	5.0	1.0



Curtis & Tompkins, Ltd.

pH			
Lab #:	157107	Location:	Rhodia
Client:	URS Corporation	Analysis:	EPA 9045C
Project#:	51-00070007.00-11100		
Analyte:	pH	Units:	SU
Field ID:	DT6-1W-0-6	Diln Fac:	1.000
Type:	SDUP	Batch#:	70318
MSS Lab ID:	157107-009	Sampled:	02/20/02
Lab ID:	QC171017	Received:	02/20/02
Matrix:	Soil	Analyzed:	02/21/02

MSS Result	Result	RL	RPD	Lim
5.040	5.100	1.0	1	20

RL= Reporting Limit

RPD= Relative Percent Difference

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Copper

Lab #:	157107	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Sampled:	02/20/02
Matrix:	Soil	Received:	02/20/02
Units:	mg/Kg	Prepared:	02/21/02
Batch#:	70323	Analyzed:	02/22/02

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Diln	Fac
DT1-1E-0-6	SAMPLE	157107-001	250	1.1	dry	58%		1.000
DT1-1W-0-6	SAMPLE	157107-002	60	1.6	dry	69%		1.000
DT3-1E-0-6	SAMPLE	157107-003	150	14	dry	64%		10.00
DT3-1W-0-6	SAMPLE	157107-004	250	13	dry	63%		10.00
DT4-1E-0-6	SAMPLE	157107-005	1,500	12	dry	60%		10.00
DT4-1W-0-6	SAMPLE	157107-006	180	8.2	dry	51%		10.00
DT5-1E-0-6	SAMPLE	157107-007	590	12	dry	59%		10.00
DT5-1W-0-6	SAMPLE	157107-008	830	11	dry	57%		10.00
DT6-1W-0-6	SAMPLE	157107-009	1,500	8.1	dry	48%		10.00
	BLANK	QC171026	ND	0.50	as received			1.000



Copper							
Lab #:	157107	Location:	Rhodia				
Client:	URS Corporation	Prep:	EPA 3050				
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B				
Analyte:	Copper	Diln Fac:	1.000				
Matrix:	Soil	Batch#:	70323				
Units:	mg/Kg	Prepared:	02/21/02				
Basis:	as received	Analyzed:	02/22/02				

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC171027	12.50	11.75	94	67-114		
BSD	QC171028	12.50	11.65	93	67-114	1	20



Copper			
Lab #:	157107	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	70323
MSS Lab ID:	157110-002	Sampled:	02/20/02
Matrix:	Soil	Received:	02/20/02
Units:	mg/Kg	Prepared:	02/21/02
Basis:	dry	Analyzed:	02/22/02

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC171029	7.164	12.54	20.11	103	24-150	11%		
MSD	QC171030		12.00	19.06	99	24-150	11%	3	38

Zinc			
Lab #:	157107	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Sampled:	02/20/02
Matrix:	Soil	Received:	02/20/02
Units:	mg/Kg	Prepared:	02/21/02
Batch#:	70323	Analyzed:	02/22/02

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Diln Fac
DT1-1E-0-6	SAMPLE	157107-001	1,100	22	dry	58%	10.00
DT1-1W-0-6	SAMPLE	157107-002	450	3.1	dry	69%	1.000
DT3-1E-0-6	SAMPLE	157107-003	1,200	28	dry	64%	10.00
DT3-1W-0-6	SAMPLE	157107-004	1,900	25	dry	63%	10.00
DT4-1E-0-6	SAMPLE	157107-005	1,100	24	dry	60%	10.00
DT4-1W-0-6	SAMPLE	157107-006	940	16	dry	51%	10.00
DT5-1E-0-6	SAMPLE	157107-007	500	24	dry	59%	10.00
DT5-1W-0-6	SAMPLE	157107-008	510	23	dry	57%	10.00
DT6-1W-0-6	SAMPLE	157107-009	2,600	16	dry	48%	10.00
	BLANK	QC171026	ND	1.0	as received		1.000



Zinc

Lab #:	157107	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	70323
Units:	mg/Kg	Prepared:	02/21/02
Basis:	as received	Analyzed:	02/22/02

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC171027	25.00	23.45	94	57-119		
BSD	QC171028	25.00	22.85	91	57-119	3	20

Zinc			
Lab #:	157107	Location:	Rhodia
Client:	URS Corporation	Prep:	EPA 3050
Project#:	51-00070007.00-11100	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	ZZZZZZZZZ	Batch#:	70323
MSS Lab ID:	157110-002	Sampled:	02/20/02
Matrix:	Soil	Received:	02/20/02
Units:	mg/Kg	Prepared:	02/21/02
Basis:	dry	Analyzed:	02/22/02

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC171029	43.09	25.08	69.72	106	20-146	11%		
MSD	QC171030		24.01	66.74	99	20-146	11%	3	37

Appendix B-2. AOC Delineation QA/QC Review

Sediment samples were collected at Rhodia in February and March of 2002. Sediment samples were analyzed for some combination of the following analytes: copper, zinc, pH, and percent moisture. Samples were analyzed by Curtis & Tompkins in Berkeley, California. A summary of the data review is presented in this appendix.

B-2.1 Holding Time and Sample Preservation Review

Analytical methods used for this study have established holding times which are the maximum amount of time after collection that a sample may be held prior to sample preparation and/or analysis. Samples were analyzed within method-specified holding times.

B-2.2 Blank Review

Method blanks consisted of deionized water that was carried through each step of the analysis along with the samples and were analyzed with each analytical parameter. Method blanks revealed any evidence of laboratory contamination.

B-2.3 Matrix Spike (MS)

MS samples are analyzed to evaluate matrix interferences for an analytical batch and to assess accuracy. MS recoveries that were outside control limits are summarized in the following table along with any qualification deemed necessary. All other MS recoveries were within control limits.

MS Recoveries Outside Control Limits

QC Batch ID	MS Recovery [%]	Control Limits [%]	Comment
<i>Copper in sediment</i>			
70423	223	24-150	Sample concentration greater than 4 times spike concentration so no qualification was necessary.
70465	5652	62-150	
70614	-32, 2	62-150	Spiked sample was not a project sample so no qualification was necessary.
<i>Zinc in sediment</i>			
70422	-370	20-146	Sample concentration greater than 4 times spike concentration so no qualification was necessary.
70465	-351	55-150	
70547	10	55-150	

B-2.4 Laboratory Control Samples (LCS)

LCS are well-characterized, laboratory-generated samples used to monitor the laboratory's day-to-day performance for analyses and assess the accuracy of the analytical process independent of matrix effects. All LCS recoveries were within control limits.

B-2.5 Lab Duplicate Samples

Lab duplicates are analyzed to assess accuracy and precision. All lab duplicate RPDs were within control limits.

B-2.6 Field Duplicate Samples

Six sets of sediment field duplicate samples were collected and analyzed. The following table summarizes the analytes detected in the field duplicates. Insufficient duplicates of copper were analyzed to evaluate agreement. Agreement is observed in the field duplicate results for pH. Zinc RPDs exceed 50% in four out of six cases. While this significant matrix heterogeneity is expected in soil samples and in addition, soil duplicates are not true duplicates. Therefore no qualification was judged necessary based on these discrepancies.

Summary of Field Duplicate RPDs

Analyte	Original Sample Result	Duplicate Sample Result	Units	RPD
<i>DT-3-1W-6-12 and DT-DUP-1</i>				
Copper	na	130	mg/Kg	nc
Zinc	910	740	mg/Kg	21
pH	4.8	4.9	SU	2.1
<i>DT-5-1W-0-6 and DT-DUP-2</i>				
Copper	830	360	mg/Kg	79
Zinc	510	230	mg/Kg	76
pH	5.6	5.5	SU	1.8
<i>DT-8-1W-6-12 and DT-DUP-5</i>				
Copper	na	310	mg/Kg	nc
Zinc	1200	240	mg/Kg	130
pH	5.4	5.3	SU	1.9
<i>DT-8-2W-6-12 and DT-DUP-6</i>				
Copper	na	720	mg/Kg	nc
Zinc	250	570	mg/Kg	78
pH	6.1	6.2	SU	1.6

DT-2-1W-12-24 and DT-DUP-9

Copper	1200	1000	mg/Kg	18
Zinc	4200	3100	mg/Kg	30
pH	7.2	7.3	SU	1.4

DT-4-1W-6-12 and DT-DUP-11

Copper	na	2400	mg/Kg	nc
Zinc	1000	2000	mg/Kg	67
pH	6.6	6.5	SU	1.5

na - not analyzed
nc - not calculable

B-2.7 Quality Control Summary

The data for the sediment and analyses were reviewed to evaluate their usability for project decisions. The accuracy and precision of the data were found to be acceptable for use of these data in project decisions without qualification.

Appendix B-3. Cap Design Analytical Results QA/QC Review

Sediment samples were collected at Rhodia between December, 2001 and February of 2002. Sediment samples were analyzed for some combination of the following analytes: copper, zinc, pH, TOC, chloride, and percent solids. Porewater was extracted and analyzed for some combination of the following analytes: copper, zinc, pH, TOC, DOC, and salinity. Samples were analyzed by Columbia Analytical in Kelso, Washington. A summary of the data review is presented in this appendix.

B-3.1 Holding Time and Sample Preservation Review

Analytical methods used for this study have established holding times which are the maximum amount of time after collection that a sample may be held prior to sample preparation and/or analysis. Samples were analyzed within method-specified holding times.

B-3.2 Blank Review

Method blanks consisted of deionized water that was carried through each step of the analysis along with the samples and were analyzed with each analytical parameter. Copper was detected in one method blank at 2.6 mg/Kg. All associated samples had detected concentrations of copper that were more than five times the concentration detected in the method blank, so no qualification was judged necessary. No other method blanks revealed any evidence of laboratory contamination.

B-3.3 Matrix Spike (MS)

MS samples are analyzed to evaluate matrix interferences for an analytical batch and to assess accuracy. MS recoveries that were outside control limits are summarized in the following table along with any qualification deemed necessary. All other MS recoveries were within control limits.

MS Recoveries Outside Control Limits

Spiked Sample ID	MS Recovery [%]	Comment
<i>Copper in sediment (control limits: 70%-130% for MS)</i>		
RCM 1-1 (Bottom)	-268	Sample concentration greater than 4 times spike concentration so no qualification was necessary.
RCM-9	19453	Sample concentration greater than 4 times spike concentration so no qualification was necessary.
NSCM-1 (2-5 ft)	154	Recovery within expected range based on spike concentration relative to sample concentration so no qualification was necessary.
<i>Zinc in sediment (control limits: 70%-130% for MS)</i>		
RCM 1-1 (Bottom)	-187	Sample concentration greater than 4 times spike concentration so no qualification was necessary.
RCM-9	2045	Sample concentration greater than 4 times spike concentration so no qualification was necessary.
<i>Sulfide, Acid Volatile (control limits: 60%-135% for MS)</i>		
RCM 1-1 (Bottom)	54	Recovery within expected range based on spike concentration relative to sample concentration so no qualification was necessary.
RCM-9	6	Associated non-detect samples rejected, R .
SPCM-1	6	Associated non-detect samples rejected, R .

R - rejected

B-3.4 Laboratory Control Samples (LCS)

LCS are well-characterized, laboratory-generated samples used to monitor the laboratory's day-to-day performance for analyses and assess the accuracy of the analytical process independent of matrix effects. All LCS recoveries were within control limits.

B-3.5 Lab Duplicate Samples

Lab duplicates are analyzed to assess accuracy and precision. One copper duplicate RPD was high and the associated samples were qualified as estimated, **J**, to reflect a lack of precision. All other lab duplicate RPDs were within control limits.

B-3.6 Field Duplicate Samples

One set of sediment field duplicate samples were collected and analyzed. The following table summarizes the analytes detected in the field duplicates. Agreement is observed in the field duplicate results and no qualification is required due to matrix heterogeneity.

Summary of Duplicate RPDs for SPCM-1 and SPCM-1 Dup

Analyte	Original Sample Result	Duplicate Sample Result	Units	RPD
PH	3.71	3.77	SU	1.6
TOC	2.81	2.33	%	18.7
Percent Solids	68.5	70.0	%	2.2
Copper	920	913	mg/Kg	0.76
Zinc	785	752	mg/Kg	4.3
Copper, AVS-SEM	657	702	mg/Kg	6.6
Zinc, AVS-SEM	592	641	mg/Kg	7.9

B-3.7 Quality Control Summary

The data for the sediment and porewater analyses were reviewed to evaluate their usability for project decisions. The accuracy and precision of the data were found to be acceptable for use of these data in project decisions with the following qualifications.

Summary of Qualified Data

Sample ID	Analyte	Result	Units	Qualification	Comment
RCM 1-1	Copper, in sediment	865	mg/Kg	J	High lab duplicate RPD - qualified as estimated to indicate imprecise results.
RCM 1-2		4010			
RCM 2-1		7350			
RCM 2-2		220			
RCM 3-1		153			
RCM 3-2		32.5			
RCM 4-1		80.1			
RCM 4-2		61.3			
RCM 5-1		9680			
RCM 5-2		5150			
RCM 6-1		138			
RCM 6-2		209			
RCM 7-1		389			
RCM 7-2		2520			
RCM-9	Sulfide,	<0.4	mg/Kg	R	Very low MS/MSD recoveries - rejected to indicate uncertainty associated with these data.
RCM-10	Acid	<0.4			
SPCM-1	Volatile	<0.5			

J - estimated concentration

R - rejected

Copper, zinc, pH, and TOC results from three lab reports (SDGs 159930, 159940, and 160027) were reviewed for quality assurance/quality control elements of precision, accuracy, and completeness. Method blank concentrations, laboratory control sample recoveries, matrix spike sample recoveries, duplicate relative percent differences, and holding times were evaluated to assess the precision and accuracy of the sample results.

The matrix spike recoveries that were outside control limits are summarized in the following table.

QC Batch	Matrix Spike Recovery [%]	Matrix Spike Duplicate Recovery [%]	Relative Percent Difference [%]	Comment
<i>Copper (control limits: recoveries 62%-150%, RPD 0%-40%)</i>				
74124	-101	na	na	No qualification was necessary because the sample concentration is more than 4 times the spike concentration and therefore the recoveries are meaningless.
74154	-27	49	15	The sample spiked was not from this project and cannot be used to qualify these samples.
74290	82	213	10	No qualification was necessary because the sample concentration is more than 4 times the spike concentration and therefore the recoveries are meaningless.
<i>Zinc (control limits: recoveries 55%-150%, RPD 0%-38%)</i>				
74124	-182	na	na	No qualification was necessary because the sample concentration is more than 4 times the spike concentration and therefore the recoveries are meaningless.
74154	43	69	15	The sample spiked was not from this project and cannot be used to qualify these samples.
74290	313	68	9	No qualification was necessary because the sample concentration is more than 4 times the spike concentration and therefore the recoveries are meaningless.
<i>TOC (control limits: recoveries 35%-146%, RPD 0%-32%)</i>				
74343	33	88	19	Qualification was judged unnecessary.

na - not analyzed

All other QA/QC elements were within control limits.

In summary, the quality assurance review indicates that all sample results are acceptable without qualification.