2025 E. Beltline Avenue SE, Suite 402
Grand Rapids, MI 49546
Telephone (616) 975-5415
Fax (616) 975-1098

Nature and Extent of Lead in Soils and Groundwater

L.E. Carpenter & Company
Wharton, New Jersey

USEPA ID No. NJD002168748

March 2002

Vol. II of II

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281791

Appendix B
STL Laboratory Soil Analytical Results and Multiple Field XRF Data

11/29/2001

SEVERN TRENT SERVICES

STL Edison
777 New Durham Road
Edison, NJ 08817

Tel: 732-549-3900
Fax: 732-549-3679
www.stl-inc.com

Residuals Management Technologies, Inc.
222 South Riverside Plaza
Suite 280
Chicago, IL 60606

Attention: Mr Nick Clevett

Laboratory Results
Job No. Q762 - L.E. Carpenter

Dear Mr Clevett:

Enclosed are the results you requested for the following sample(s) received at our laboratory on November 8, 2001.

Lab No.	Client ID	Analysis Required
313421	SS-53	Fe Pb
313422	SS-52	Fe Pb
313423	SS-36	Fe Pb
313424	SS-28	Fe Pb
313425	SS-24	Fe Pb
313426	SS-25	Fe Pb
313427	SS-06	Pb
313428	SS-29	Pb
313429	SS-26	Pb
313430	SS-23	Pb
313431	SS-47	Pb

SEVERN TRENT SERVICES

STL Edison
777 New Durham Road
Edison, NJ 08817

Tel: 732-549-3900
Fax: 732-549-3679
www.stl-inc.com

Laboratory Results
Job No. Q762 - L.E. Carpenter (cont'd)

Lab No.	Client ID	Analysis Required
313432	SS-41	Pb
313433	SS-34	Pb
313434	SS-33	Pb
313435	SS-54	Pb
313436	SS-58	Pb
313437	SS-51	Pb
313438	SS-59	Pb
313439	SS-16	Pb
313440	SS-43	Pb

SEVERN
TRENT
SERVICES

STL Edison
777 New Durham Road
Edison, NJ 08817

Tel: 732-549-3900
Fax: 732-549-3679
www.stl-inc.com

Laboratory Results
Job No. Q762 - L.E. Carpenter (cont'd)

Lab No.	Client ID	Analysis Required
313441	DUP-01	Pb

An invoice for our services is also enclosed. If you have any questions please contact your Project Manager, Joy Kelly, at (732) 549-3900.

Very Truly Yours,

Michael J. Urban
Laboratory Director

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Analytical Results Summary

Client ID: **SS-53**
Site: **LEC**

Lab Sample No: 313421
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 8.9

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Iron	94500	21.5		P
Lead	2400	1.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-52**
Site: **LEC**

Lab Sample No: 313422
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 9.1

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Iron	65900	21.6		P
Lead	1450	1.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-36**
Site: **LEC**

Lab Sample No: 313423
Lab Job No: Q762

Date Sampled: 11/05/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 8.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Iron	67800	21.3		P
Lead	1720	1.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-28**
Site: **LEC**

Lab Sample No: 313424
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 7.3

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Iron	30600	21.1		P
Lead	8.6	1.2		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-24**
Site: **LEC**

Lab Sample No: 313425
Lab Job No: Q762

Date Sampled: 11/05/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 10.4

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Iron	87300	19.9		P
Lead	2330	1.2		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-25**
Site: **LEC**

Lab Sample No: 313426
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 11.1

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Iron	66300	22.0		P
Lead	1520	1.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-06**
Site: **LEC**

Lab Sample No: 313427
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 13.3

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	457	1.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-29**
Site: **LEC**

Lab Sample No: 313428
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 7.2

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	9.4	1.2		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-26**
Site: **LEC**

Lab Sample No: 313429
Lab Job No: Q762

Date Sampled: 11/05/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 9.7

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	1260	1.2		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-23**
Site: **LEC**

Lab Sample No: 313430
Lab Job No: Q762

Date Sampled: 11/05/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 10.7

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	565	1.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-47**
Site: **LEC**

Lab Sample No: 313431
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 9.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	315	1.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-41**
Site: **LEC**

Lab Sample No: 313432
Lab Job No: Q762

Date Sampled: 11/05/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 19.7

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	1110	1.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-34**
Site: **LEC**

Lab Sample No: 313433
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 7.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	12.3	1.2		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-33**
Site: **LEC**

Lab Sample No: 313434
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 6.3

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	9.6	1.2		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-54**
Site: **LEC**

Lab Sample No: 313435
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 10.4

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	3000	1.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-58**
Site: **LEC**

Lab Sample No: 313436
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 5.4

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	9.4	1.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-51**
Site: **LEC**

Lab Sample No: 313437
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 6.4

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	824	1.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-59**
Site: **LEC**

Lab Sample No: 313438
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 7.6

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	16.2	1.2		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-16**
Site: **LEC**

Lab Sample No: 313439
Lab Job No: Q762

Date Sampled: 11/05/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 10.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	584	1.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-43**
Site: **LEC**

Lab Sample No: 313440
Lab Job No: Q762

Date Sampled: 11/05/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 10.3

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	709	1.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **DUP-01**
Site: **L.E. Carpenter**

Lab Sample No: 313441
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 11.7

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	2250	1.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Q762

STL EDISON
777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): NICK CLEVETT
Company: RMT
Address: 222 S. RIVERSIDE PLAZA SUITE 820
City: CHICAGO State: IL 60606
Phone: 312-575-0200 Fax: 312-575-0300

Samplers Name (Printed): BRENDAN MCLENNAN ERIC SWANSON
P.O. #:

Site/Project Identification: LEC
State (Location of site): NJ: [X] NY: [ ] Other:
Regulatory Program: CERCLA

Analysis Turnaround Time
Standard [ ]
Rush Charges Authorized For:
2 Week [ ]
1 Week [ ]
Other [X] 1DAY

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: Q762

Sample Identification	Date	Time	Matrix	No. of. Cont.	Total Pb	Total Fe										Sample Numbers
SS-53	11/6/01	NA	Soil	1	X	X										313421
SS-52	11/6/01			1	X	X										313422
SS-36	11/5/01			1	X	X										313423
SS-28	11/6/01			1	X	X										313424
SS-24	11/5/01			1	X	X										313425
SS-25	11/6/01			1	X	X										313426
SS-06	11/6/01			1	X											313427
SS-29	11/6/01			1	X											313428
SS-26	11/5/01			1	X											313429
SS-23	11/5/01			1	X											313430

Preservation Used: (1 = ICE), 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____
Soil:
Water:

Special Instructions First 6 Samples may have very high total Iron

Water Metals Filtered (Yes/No)?

Relinquished by	Company	Date / Time	Received by	Company
1) [signature]	RMT	11/8/01 1515	1) [signature]	STL
2) [signature]	STL Edison Ed Reynolds	11/8/01 1730	2) [signature]	STL
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Q762

STL EDISON
777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): SEE PAGE 1	Samplers Name (Printed): BRENDAN MCLENNAN ERIC SWANSON	Site/Project Identification: LEC
Company	P.O. #	State (Location of site): NJ: X NY: ☐ Other:
Address		Regulatory Program: CERCLA
City State	Analysis Turnaround Time: Standard ☐	
Phone Fax	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☒ 1 DAY	

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: Q762

Sample Identification	Date	Time	Matrix	No. of Cont.	TCLP Pb	Sample Numbers
SS-47	11/6/01	NA	Soil	1	X	313431
SS-41	11/5/01			1	X	313432
SS-34	11/6/01			1	X	313433
SS-33				1	X	313434
SS-54				1	X	313435
SS-58				1	X	313436
SS-51				1	X	313437
SS-59				1	X	313438
SS-16	11/5/01			1	X	313439
SS-43	11/5/01			1	X	313440

Preservation Used: (1 = ICE) 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____
Soil:
Water:

Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by	Company	Date / Time	Received by	Company
1) Brendan McLennan	Rust	11/8/01 1615	1) Ed Reynolds	STL
2) Ed Reynolds	STL Edison Ed Reynolds	11/8/01 1730	2) Wandya	STL
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Q762

STL EDISON
777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): SEE PAGE 1	Samplers Name (Printed): BRENDAN MCLENNAN ERIC SWANSON	Site/Project Identification: LEC
Company	P.O. #	State (Location of site): NJ: X NY: ☐ Other:
		Regulatory Program: CERCLA
Address	Analysis Turnaround Time: Standard ☐	
City State	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone Fax		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: Q762

Sample Identification	Date	Time	Matrix	No. of Cont.	Take PB											Sample Numbers
DUP-01	[illegible]		Soil	1	X											313441

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____
Soil:
Water:

Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by	Company	Date / Time	Received by	Company
1) [signature]	RMT	11/8/01 1/15	1) [signature]	STL
2) [signature]	STL Edison	11/8/01 1730	2) [signature]	STL
3)	Ed Reynolds	/	3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Laboratory Chronicles

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q762
Client: Residuals Management Technologies, Inc.
Sample No.: 313421

Site: L.E. Carpenter
Date Sampled: 11/6/2001
Date Received: 11/8/2001
Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
IRON	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943
LEAD	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q762
Site: L.E. Carpenter
Client: Residuals Management Technologies, Inc.
Date Sampled: 11/6/2001
Sample No.: 313422
Date Received: 11/8/2001
Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
IRON	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943
LEAD	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q762
Site: L.E. Carpenter
Client: Residuals Management Technologies, Inc.
Date Sampled: 11/5/2001
Sample No.: 313423
Date Received: 11/8/2001
Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
IRON	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943
LEAD	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q762
Client: Residuals Management Technologies, Inc.
Sample No.: 313424

Site: L.E. Carpenter
Date Sampled: 11/6/2001
Date Received: 11/8/2001
Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
IRON	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943
LEAD	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q762
Site: L.E. Carpenter
Client: Residuals Management Technologies, Inc.
Date Sampled: 11/5/2001
Sample No.: 313425
Date Received: 11/8/2001
Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
IRON	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943
LEAD	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q762 **Site:** L.E. Carpenter

Client: Residuals Management Technologies, Inc. **Date Sampled:** 11/6/2001

Sample No.: 313426 **Date Received:** 11/8/2001

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
IRON	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943
LEAD	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q762
Site: L.E. Carpenter
Client: Residuals Management Technologies, Inc.
Date Sampled: 11/6/2001
Sample No.: 313427
Date Received: 11/8/2001
Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q762
Client: Residuals Management Technologies, Inc.
Sample No.: 313428

Site: L.E. Carpenter
Date Sampled: 11/6/2001
Date Received: 11/8/2001
Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAC	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q762
Site: L.E. Carpenter
Client: Residuals Management Technologies, Inc.
Date Sampled: 11/5/2001
Sample No.: 313429
Date Received: 11/8/2001
Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q762
Client: Residuals Management Technologies, Inc.
Sample No.: 313430

Site: L.E. Carpenter
Date Sampled: 11/5/2001
Date Received: 11/8/2001
Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q762
Site: L.E. Carpenter
Client: Residuals Management Technologies, Inc.
Date Sampled: 11/6/2001
Sample No.: 313431
Date Received: 11/8/2001
Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAC	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q762
Site: L.E. Carpenter
Client: Residuals Management Technologies, Inc.
Date Sampled: 11/5/2001
Sample No.: 313432
Date Received: 11/8/2001
Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q762
Client: Residuals Management Technologies, Inc.
Sample No.: 313433

Site: L.E. Carpenter
Date Sampled: 11/6/2001
Date Received: 11/8/2001
Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAC	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q762
Site: L.E. Carpenter
Client: Residuals Management Technologies, Inc.
Date Sampled: 11/6/2001
Sample No.: 313434
Date Received: 11/8/2001
Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAC	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q762
Site: L.E. Carpenter
Client: Residuals Management Technologies, Inc.
Date Sampled: 11/6/2001
Sample No.: 313435
Date Received: 11/8/2001
Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAC	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q762
Site: L.E. Carpenter
Client: Residuals Management Technologies, Inc.
Date Sampled: 11/6/2001
Sample No.: 313436
Date Received: 11/8/2001
Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q762	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/6/2001
Sample No.:	313437	**Date Received:**	11/8/2001
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q762	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/6/2001
Sample No.:	313438	**Date Received:**	11/8/2001
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q762
Site: L.E. Carpenter
Client: Residuals Management Technologies, Inc.
Date Sampled: 11/5/2001
Sample No.: 313439
Date Received: 11/8/2001
Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943

Q762

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q762
Site: L.E. Carpenter
Client: Residuals Management Technologies, Inc.
Date Sampled: 11/5/2001
Sample No.: 313440
Date Received: 11/8/2001
Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/9/2001	Retana, Camille	11/9/2001	Huang, Yixin	11943

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q762
Site: L.E. Carpenter
Client: Residuals Management Technologies, Inc.
Date Sampled: 11/6/2001
Sample No.: 313441
Date Received: 11/8/2001
Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/9/2001	Retana, Camille	11/9/2001	Helders, Eric	11944

Methodology Review

Analytical Methodology Summary

Volatile Organics:

Unless otherwise specified, water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Drinking water samples are analyzed by EPA Method 524.2. Solid samples are analyzed for volatile organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8260B. Water samples are analyzed for volatile organics by purge and trap GC/PID and GC/ELCD as specified in EPA Methods 601 and 602. Solid samples are analyzed by GC/PID and GC/ELCD in accordance with SW-846, 3rd Edition Method 8021B.

Acid and Base/Neutral Extractable Organics:

Unless otherwise specified, water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8270C.

GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8260B and 8270C. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatile, 15 for base/neutrals and 10 for acid extractables).

Organochlorine Pesticides and PCBs:

Unless otherwise specified, water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8081A for organochlorine pesticides and Method 8082 for PCBs.

Total Petroleum Hydrocarbons:

Water samples are analyzed for petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples are prepared for analysis by soxhlet extraction consistent with the March 1990 N.J. DEP "Remedial Investigation Guide" Appendix A, page 52, and analyzed by U.S. EPA Method 418.1

Metals Analysis:

Metals analyses are performed by any of four techniques specified by a Method Code provided on each data report page, as follows:

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)

A - Flame Atomic Absorption

F - Furnace Atomic Absorption

CV - Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in "Methods for Chemical Analysis of Water and Wastewater" (EPA 600/4-79-020). Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition); samples are digested according to Method 3050B "Acid Digestion of Soil, Sediments and Sludges."

Specific method references for ICP analyses are water Method 200.7 and solid Method 6010B. Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1 and solid Method 7471A. Other specific Atomic Absorption method references are as follows:

	Water Test Method		Solid Test Method	
Element	Flame	Furnace	Flame	Furnace
Aluminum	202.1	202.2	7020	--
Antimony	204.1	204.2	7040	7041
Arsenic	--	206.2	--	7060
Barium	208.1	--	7080	--
Beryllium	210.1	210.2	7090	7091
Cadmium	213.1	213.2	7130	7131
Calcium	215.1	--	7140	--
Chromium, Total	218.1	218.2	7190	7191
Chromium, (+6)	218.4	218.5	7197	7195
Cobalt	219.1	219.2	7200	7201
Copper	220.1	220.2	7210	--
Iron	236.1	236.2	7380	--
Lead	239.1	239.2	7420	7421
Magnesium	242.1	--	7450	--
Manganese	243.1	243.2	7460	--
Nickel	249.1	249.2	7520	--
Potassium	258.1	--	7610	--
Selenium	--	270.2	--	7740
Silver	272.1	272.2	7760	--
Sodium	273.1	--	7770	--
Tin	283.1	283.2	7870	--
Thallium	279.1	279.2	7840	7841
Vanadium	286.1	286.2	7910	7911
Zinc	289.1	289.2	7950	--

Cyanide:

Water samples are analyzed for cyanide using EPA Method 335.3. Cyanide is determined in solid samples as specified in the EPA Contract Laboratory Program IFB dated July 1988, revised February 1989.

Phenols:

Water samples are analyzed for total phenols using EPA Method 420.2. Total phenols are determined in solid samples by preparing the sample as outlined in the EPA Contract Laboratory Program IFB for cyanide, followed by a phenols determination using EPA Method 420.1.

Cleanup of Semivolatile Extracts:

Upon request Method 3611B Alumina Column Cleanup and/or Method 3650B Acid-Base Partition Cleanup are performed to improve detection limits by the removal of saturated hydrocarbon interferences.

Hazardous Waste Characteristics:

Samples for hazardous waste characteristics are analyzed as specified in the U.S. EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition). Specific method references are as follows:

Ignitability	- Method 1020A
Corrosivity	- Water pH Method 9040B Soil pH Method 9045C
Reactivity	- Chapter 7, Section 7.3.3 and 7.3.4 respectively for hydrogen cyanide and hydrogen sulfide release
Toxicity	- TCLP Method 1311

Miscellaneous Parameters:

Additional analyses performed on both aqueous and solid samples are in accordance with methods published in the following references:

- Test Methods for Evaluating Solid Wastes, SW-846 3rd Edition, November 1986.
- Standard Methods for the Examination of Water and Wastewater, 17th Edition.
- Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, 1979.

Data Reporting Qualifiers

ORGANIC DATA REPORTING QUALIFIERS

ND - The compound was not detected at the indicated concentration.

J - Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

INORGANIC DATA REPORTING QUALIFIERS (SW-846 METHODS ONLY)

ND - The compound was not detected at the indicated concentration.

B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit.

E - The reported value is estimated because of the presence of interference. See explanatory note in the Nonconformance Summary if the problem applies to all of the samples or on the individual Inorganic Analysis Data Sheet if the problem is isolated.

M - Duplicate injection precision not met on the Furnace Atomic Absorption analysis.

N - The spiked sample recovery is not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

* - Duplicate Analysis is not within control limits.

W - Post digestion spike for Furnace Atomic Absorption analysis is out of control.

\+ - Correlation coefficient for MSA is less than 0.995.

M Column - Method Qualifiers

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP).

A - Flame Atomic Absorption Spectroscopy (FAA).

F - Graphite Furnace Atomic Absorption Spectroscopy (GFAA).

CV - Cold Vapor Atomic Absorption Spectroscopy.

Non-Conformance Summary

NON-CONFORMANCE SUMMARY

STL Edison Job Number: 8762

Volatile Organics Analysis:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

Base/Neutral and/or Acid Extractable Organics:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

PCBs and/or Organochlorine Pesticides:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

Non-conformance Summary, Page 2 of 2
STL Edison Job Number: Q762

Metals Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested ____; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

Total Petroleum Hydrocarbons:

All data conforms with method requirements ____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

General Chemistry/Disposal Parameters:

All data conforms with method requirements ____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

Signature of
Laboratory Manager: _____ Date: 11/29/01

Metals Forms and Data

Analytical Results Summary

Client ID: **SS-53**
Site: **LEC**

Lab Sample No: 313421
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 8.9

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Iron	94500	21.5		P
Lead	2400	1.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-52**
Site: **LEC**

Lab Sample No: 313422
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 9.1

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Iron	65900	21.6		P
Lead	1450	1.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-36**
Site: **LEC**

Lab Sample No: 313423
Lab Job No: Q762

Date Sampled: 11/05/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 8.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Iron	67800	21.3		P
Lead	1720	1.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-28**
Site: **LEC**

Lab Sample No: 313424
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 7.3

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Iron	30600	21.1		P
Lead	8.6	1.2		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-24**
Site: **LEC**

Lab Sample No: 313425
Lab Job No: Q762

Date Sampled: 11/05/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 10.4

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Iron	87300	19.9		P
Lead	2330	1.2		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-25**
Site: **LEC**

Lab Sample No: 313426
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 11.1

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Iron	66300	22.0		P
Lead	1520	1.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-06**
Site: **LEC**

Lab Sample No: 313427
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 13.3

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	457	1.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-29**
Site: **LEC**

Lab Sample No: 313428
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 7.2

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	9.4	1.2		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-26**
Site: **LEC**

Lab Sample No: 313429
Lab Job No: Q762

Date Sampled: 11/05/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 9.7

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	1260	1.2		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-23**
Site: **LEC**

Lab Sample No: 313430
Lab Job No: Q762

Date Sampled: 11/05/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 10.7

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	565	1.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-47**
Site: **LEC**

Lab Sample No: 313431
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 9.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	315	1.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-41**
Site: **LEC**

Lab Sample No: 313432
Lab Job No: Q762

Date Sampled: 11/05/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 19.7

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	1110	1.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-34**
Site: **LEC**

Lab Sample No: 313433
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 7.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	12.3	1.2		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-33**
Site: **LEC**

Lab Sample No: 313434
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 6.3

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	9.6	1.2		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-54**
Site: **LEC**

Lab Sample No: 313435
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 10.4

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	3000	1.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-58**
Site: **LEC**

Lab Sample No: 313436
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 5.4

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	9.4	1.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-51**
Site: **LEC**

Lab Sample No: 313437
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 6.4

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	824	1.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-59**
Site: **LEC**

Lab Sample No: 313438
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 7.6

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	16.2	1.2		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-16**
Site: **LEC**

Lab Sample No: 313439
Lab Job No: Q762

Date Sampled: 11/05/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 10.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	584	1.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-43**
Site: **LEC**

Lab Sample No: 313440
Lab Job No: Q762

Date Sampled: 11/05/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 10.3

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	709	1.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **DUP-01**
Site: **L.E. Carpenter**

Lab Sample No: 313441
Lab Job No: Q762

Date Sampled: 11/06/01
Date Received: 11/08/01

Matrix: SOLID
Level: LOW
% Moisture: 11.7

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	2250	1.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Blank Results Summary

BLANKS

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: _Q762 Batch No.: 11943_

Preparation Blank Matrix (soil/water): SOIL_

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron	39.2	U	39.2	U	39.2	U	39.2	U	3.920	U	P
Lead	2.3	U	2.3	U	-2.7	B	2.3	U	0.230	U	P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Titanium											NR

BLANKS

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: _Q762 Batch No.: 11943_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead			39.2	U	39.2	U					P
Magnesium			2.3	U	2.3	U					P
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Titanium											NR
											NR

BLANKS

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: _Q762 Batch No.: 11944_

Preparation Blank Matrix (soil/water): SOIL_

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	2.1	U	2.1	U	2.1	U	2.1	U			NR
Magnesium									0.207	U	P
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Molybdenu											NR
											NR

BLANKS

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: _Q762 Batch No.: 11944_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	2.1	U	2.1	U	2.1	U	2.1	U			NR
Magnesium											P
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Molybdenu											NR
											NR

BLANKS

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: _Q762 Batch No.: 11944_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium			2.1	U	2.1	U					P
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Molybdenu											NR
											NR

Calibration Summary

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: Q762 Batch No.: 11943_

Initial Calibration Source: INORG VENT

Continuing Calibration Source: INORG VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	100000.0	101094.2	101.1	100000.0	102081.6	102.1	99073.51	99.1	P
Magnesium	10000.0	10025.04	100.3	10000.0	10195.36	102.0	9860.97	98.6	P
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Titanium									NR
									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: Q762 Batch No.: 11943_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead				100000.0	101234.0	101.2	103013.8	103.0	P
Magnesium				10000.0	10107.30	101.1	10377.99	103.8	P
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Titanium									NR
									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: Q762 Batch No.: 11943_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead				100000.0	103258.2	103.3			P
Magnesium				10000.0	10497.97	105.0			P
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Titanium									NR
									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: Q762 Batch No.: 11944_

Initial Calibration Source: INORG VENT

Continuing Calibration Source: INORG VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium	10000.0	9866.68	98.7	10000.0	10239.22	102.4	9934.83	99.3	P
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR
									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: Q762 Batch No.: 11944_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium				10000.0	10302.23	103.0			P
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR
									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: Q762 Batch No.: 11944_

Initial Calibration Source: INORG VENT

Continuing Calibration Source: INORG VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium	10000.0	9730.27	97.3	10000.0	9636.41	96.4	9674.08	96.7	P
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR
									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: Q762 Batch No.: 11944_

Initial Calibration Source: INORG VENT

Continuing Calibration Source: INORG VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium				10000.0	9648.95	96.5	9563.38	95.6	P
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR
									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: Q762 Batch No.: 11944_

Initial Calibration Source: INORG VENT

Continuing Calibration Source: INORG VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium				10000.0	9742.49	97.4			P
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR
									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

ICP Interference Check Results Summary

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: Q762 Batch No.: 11943

ICP ID Number: TRACE3 TJA61 ICS Source: INORG VENT

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	517989	495406.4	99.1	514526	495915.2	99.2
Antimony		100		114.0	114.0		110.8	110.8
Arsenic		100		96.7	96.7		102.4	102.4
Barium		100		102.7	102.7		100.7	100.7
Beryllium		100		100.5	100.5		103.6	103.6
Cadmium		100		97.7	97.7		101.5	101.5
Calcium	500000	500000	507908	485221.6	97.0	527546	510233.7	102.0
Chromium		100		104.7	104.7		107.6	107.6
Cobalt		100		96.6	96.6		100.6	100.6
Copper		100		103.9	103.9		101.2	101.2
Iron	200000	200000	202577	196670.8	98.3	208109	203895.7	101.9
Lead		100		98.9	98.9		106.2	106.2
Magnesium	500000	500000	548646	528666.5	105.7	581158	564129.4	112.8
Manganese		100		102.2	102.2		103.5	103.5
Mercury								
Nickel		100		99.0	99.0		101.6	101.6
Potassium		10000		9269.1	92.7		9552.1	95.5
Selenium		100		95.8	95.8		98.8	98.8
Silver		100		102.3	102.3		101.4	101.4
Sodium		10000		10173.9	101.7		9858.1	98.6
Thallium		100		94.7	94.7		103.2	103.2
Vanadium		100		99.2	99.2		102.0	102.0
Zinc		100		106.5	106.5		115.1	115.1

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: Q762 Batch No.: 11944

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	473579	472922.9	94.6	473282	473397.5	94.7
Antimony		100		99.7	99.7		103.4	103.4
Arsenic		100		100.3	100.3		103.1	103.1
Barium		100		108.8	108.8		108.2	108.2
Beryllium		100		100.0	100.0		101.1	101.1
Cadmium		100		99.3	99.3		99.0	99.0
Calcium	500000	500000	495120	485213.3	97.0	498646	486536.8	97.3
Chromium		100		101.6	101.6		101.8	101.8
Cobalt		100		99.5	99.5		99.3	99.3
Copper		100		107.8	107.8		107.8	107.8
Iron	200000	200000	206575	202694.4	101.3	203300	198668.0	99.3
Lead		100		97.2	97.2		97.0	97.0
Magnesium	500000	500000	539614	531397.8	106.3	544205	533041.8	106.6
Manganese		100		104.0	104.0		104.6	104.6
Mercury								
Nickel		100		99.2	99.2		99.9	99.9
Potassium		10000		9714.3	97.1		9786.4	97.9
Selenium		100		95.5	95.5		94.4	94.4
Silver		100		107.4	107.4		107.9	107.9
Sodium		10000		10861.1	108.6		11064.8	110.6
Thallium		100		92.5	92.5		94.0	94.0
Vanadium		100		100.8	100.8		101.9	101.9
Zinc		100		105.2	105.2		106.6	106.6

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: Q762 Batch No.: 11944

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000				469130	467843.8	93.6
Antimony		100					105.0	105.0
Arsenic		100					106.5	106.5
Barium		100					106.7	106.7
Beryllium		100					104.2	104.2
Cadmium		100					100.5	100.5
Calcium	500000	500000				511888	498904.4	99.8
Chromium		100					102.9	102.9
Cobalt		100					101.2	101.2
Copper		100					105.4	105.4
Iron	200000	200000				201914	198762.4	99.4
Lead		100					100.0	100.0
Magnesium	500000	500000				544808	538098.6	107.6
Manganese		100					106.7	106.7
Mercury								
Nickel		100					101.7	101.7
Potassium		10000					9563.9	95.6
Selenium		100					95.1	95.1
Silver		100					106.9	106.9
Sodium		10000					10633.9	106.3
Thallium		100					91.8	91.8
Vanadium		100					104.4	104.4
Zinc		100					109.5	109.5

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: _Q762 Batch No.: 11944_

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	474944	475783.4	95.2	487396	488668.9	97.7
Antimony		100		98.0	98.0		100.5	100.5
Arsenic		100		104.8	104.8		101.1	101.1
Barium		100		108.8	108.8		113.1	113.1
Beryllium		100		99.0	99.0		96.6	96.6
Cadmium		100		94.5	94.5		93.0	93.0
Calcium	500000	500000	492029	482240.2	96.4	466696	467154.6	93.4
Chromium		100		100.6	100.6		99.5	99.5
Cobalt		100		98.7	98.7		97.0	97.0
Copper		100		107.8	107.8		116.5	116.5
Iron	200000	200000	205037	203354.9	101.7	202589	203586.9	101.8
Lead		100		94.6	94.6		92.2	92.2
Magnesium	500000	500000	537232	531708.8	106.3	532667	533537.8	106.7
Manganese		100		102.4	102.4		101.0	101.0
Mercury								
Nickel		100		98.7	98.7		98.2	98.2
Potassium		10000		9368.9	93.7		9980.3	99.8
Selenium		100		96.0	96.0		97.8	97.8
Silver		100		107.4	107.4		109.7	109.7
Sodium		10000		10752.2	107.5		11355.7	113.6
Thallium		100		96.3	96.3		95.4	95.4
Vanadium		100		96.6	96.6		95.6	95.6
Zinc		100		103.0	103.0		103.0	103.0

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: _Q762 Batch No.: 11944_

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT__

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000				481531	493253.0	98.7
Antimony		100					105.1	105.1
Arsenic		100					102.5	102.5
Barium		100					113.3	113.3
Beryllium		100					99.5	99.5
Cadmium		100					96.2	96.2
Calcium	500000	500000				490239	479876.0	96.0
Chromium		100					100.5	100.5
Cobalt		100					99.2	99.2
Copper		100					116.5	116.5
Iron	200000	200000				209160	208520.8	104.3
Lead		100					99.1	99.1
Magnesium	500000	500000				542776	544803.2	109.0
Manganese		100					103.6	103.6
Mercury								
Nickel		100					101.7	101.7
Potassium		10000					10045.0	100.4
Selenium		100					100.2	100.2
Silver		100					110.8	110.8
Sodium		10000					11348.3	113.5
Thallium		100					94.4	94.4
Vanadium		100					96.8	96.8
Zinc		100					106.2	106.2

Spike Sample Recovery Summary

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

BSS110901

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: Q762 Batch No.: 11943

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron	75-125	103.0203		3.9200	U	100.00	103.0		P
Lead	75-125	50.9455		0.2300	U	50.00	101.9		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Titanium									NR

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

313424MS

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: Q762

Batch No.: 11943

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 92.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron		29524.1284		30646.7098		107.87	-1040.7		P
Lead	75-125	61.7125		8.6111		53.94	98.4		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Titanium									NR

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

313424MSD

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: Q762 Batch No.: 11943

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 92.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	75-125	33825.5674		30646.7098		107.87	2946.9		P
Magnesium		66.4347		8.6111		53.94	107.2		P
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Titanium									NR

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

BSS110901

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: Q762

Batch No.: 11944

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	75-125	48.9863		0.2070	U	50.00	98.0		NR
Magnesium									P
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR
									NR

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

311085MS

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: Q762

Batch No.: 11944_

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 90.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	75-125	64.0226		8.9868		55.19	99.7		NR
Magnesium									P
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR
									NR

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

311085MSD

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: Q762

Batch No.: 11944_

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: _90.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	75-125	59.6832		8.9868		55.19	91.9		NR
Magnesium									P
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR
									NR

Comments:

Sample and MS Duplicate Results Summary

DUPLICATES

LAB SAMPLE NO.

LCSS-248-D

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: Q762

Batch No.: 11943

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 100.0

% Solids for Duplicate: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron		14191.2782		14009.0562		1.3		P
Lead		195.8450		195.0344		0.4		P
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Titanium								NR

DUPLICATES

LAB SAMPLE NO.

313424D

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: Q762

Batch No.: 11943_

Matrix (soil/water): SOIL_

Level (low/med): LOW

% Solids for Sample: 92.7

% Solids for Duplicate: 92.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron		30646.7098		36573.3970		17.6		P
Lead		8.6111		10.1305		16.2		P
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Titanium								NR

DUPLICATES

LAB SAMPLE NO.

313424MS/MS

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: __Q762

Batch No.: 11943_

Matrix (soil/water): SOIL_

Level (low/med): _LOW__

% Solids for Sample: _92.7

% Solids for Duplicate: __92.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead		29524.1284		33825.5674		13.6		P
Magnesium		61.7125		66.4347		7.4		P
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Titanium								NR

DUPLICATES

LAB SAMPLE NO.

LCSS-248-D

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: Q762

Matrix (soil/water): SOIL

% Solids for Sample: 100.0

Batch No.: 11944

Level (low/med): LOW

% Solids for Duplicate: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium		190.0186		185.8202		2.2		P
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Molybdenu								NR
								NR

DUPLICATES

LAB SAMPLE NO.

311085D

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: Q762

Batch No.: 11944

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 90.6

% Solids for Duplicate: 90.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium		8.9868		8.3604		7.2		P
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Molybdenu								NR

DUPLICATES

LAB SAMPLE NO.

311085MS/MS

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: Q762

Matrix (soil/water): SOIL

% Solids for Sample: 90.6

Batch No.: 11944

Level (low/med): LOW

% Solids for Duplicate: 90.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium		64.0226		59.6832		7.0		P
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Molybdenu								NR

Laboratory Control Samples Results Summary

LABORATORY CONTROL SAMPLE

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: __Q762 Batch No.: 11943_

Solid LCS Source: ERA

Aqueous LCS Source:

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead				13700.0	14191.3		8350.0	19100.0	103.6
Magnesium				186.0	195.8		139.0	233.0	105.3
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Titanium									

LABORATORY CONTROL SAMPLE

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: Q762 Batch No.: 11944_

Solid LCS Source: ERA

Aqueous LCS Source:

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium				186.0	190.0		139.0	233.0	102.2
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Molybdenu									

Serial Dilution Summary

ICP SERIAL DILUTION

LAB SAMPLE NO.

313424L

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: _Q762

Batch No.: 11943_

Matrix (soil/water): SOIL_

Level (low/med): LOW__

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							NR
Iron	56819.00		54628.04		3.9		P
Lead	15.96		11.50	U	100.0		P
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

ICP SERIAL DILUTION

LAB SAMPLE NO.

311085L

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: _Q762

Batch No.: 11944_

Matrix (soil/water): SOIL_

Level (low/med): LOW__

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							NR
Iron							NR
Lead	16.28		11.52	B	29.2		P
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

Analysis Run Log

ANALYSIS RUN LOG

Lab Name: STL_EDISON_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:11943_

Instrument ID Number: TRACE3 TJA61_ Method: P_

Start Date: 11/09/01 End Date: 11/09/01

Lab Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	TI
3CAL-BLK	1.00	1140		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	X
T3CAL1	1.00	1145		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X		X	X		X	X	X	X
T3CAL2	1.00	1150		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
T3CAL3	1.00	1156		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
ZZZZZZ	1.00	1201																									
ICV/CCV	1.00	1206												X	X												
ICB/CCB	1.00	1212												X	X												
ICSA	1.00	1217												X	X												
ICSAB	1.00	1222												X	X												
ZZZZZZ	1.00	1228																									
ZZZZZZ	1.00	1234																									
ZZZZZZ	10.00	1239																									
ZZZZZZ	50.00	1244																									
CCV	1.00	1250												X	X												
CCB	1.00	1255												X	X												
SS110901	1.00	1334												X	X												
BS110901	1.00	1339												X	X												
SS-248-D	2.00	1345												X	X												
LCSS-248	2.00	1350												X	X												
313424D	5.00	1355												X	X												
313424	5.00	1401												X	X												
313424L	5.00	1406												X	X												
313424MS	5.00	1411												X	X												
13424MSD	5.00	1416												X	X												
ZZZZZZ	5.00	1422																									
CCV	1.00	1427												X	X												
CCB	1.00	1432												X	X												
313421	5.00	1437												X	X												
313422	5.00	1443												X	X												
313423	5.00	1448												X	X												
313425	5.00	1453												X	X												
313426	5.00	1458												X	X												

ANALYSIS RUN LOG

Lab Name: STL_EDISON_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:11943_

Instrument ID Number: TRACE3 TJA61_ Method: P_

Start Date: 11/09/01 End Date: 11/09/01

Lab Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	TI
313427	5.00	1504		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	5.00	1509		–	–	–	–	–	–	–	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–	–
313428	5.00	1514		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
313429	5.00	1519		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
313430	5.00	1525		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
CCV	1.00	1530		–	–	–	–	–	–	–	–	–	–	X	X	–	–	–	–	–	–	–	–	–	–	–	–
CCB	1.00	1535		–	–	–	–	–	–	–	–	–	–	X	X	–	–	–	–	–	–	–	–	–	–	–	–
313431	5.00	1541		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
313432	5.00	1546		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
313433	5.00	1551		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
313434	5.00	1556		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
313435	5.00	1609		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
313436	5.00	1614		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
313437	5.00	1619		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
313438	5.00	1625		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
CCV	1.00	1630		–	–	–	–	–	–	–	–	–	–	X	X	–	–	–	–	–	–	–	–	–	–	–	–
CCB	1.00	1635		–	–	–	–	–	–	–	–	–	–	X	X	–	–	–	–	–	–	–	–	–	–	–	–
313439	5.00	1640		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
313440	5.00	1646		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	500.00	1651		–	–	–	–	–	–	–	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–	–
ICSA	1.00	1656		–	–	–	–	–	–	–	–	–	–	X	X	–	–	–	–	–	–	–	–	–	–	–	–
ICSAB	1.00	1701		–	–	–	–	–	–	–	–	–	–	X	X	–	–	–	–	–	–	–	–	–	–	–	–
CCV	1.00	1707		–	–	–	–	–	–	–	–	–	–	X	X	–	–	–	–	–	–	–	–	–	–	–	–
CCB	1.00	1712		–	–	–	–	–	–	–	–	–	–	X	X	–	–	–	–	–	–	–	–	–	–	–	–
				–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Q762

ANALYSIS RUN LOG

Lab Name: STL_EDISON_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:11944_

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 11/09/01 End Date: 11/09/01

Lab Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
1CAL-BLK	1.00	0956		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	X
T1CAL1	1.00	1001		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
T1CAL2	1.00	1007		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
T1CAL3	1.00	1012		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	1018		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ICV/CCV	1.00	1023		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ICB/CCB	1.00	1029		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ICSA	1.00	1034		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ICSAB	1.00	1040		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	1045		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	1051		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	1056		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	1102		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	1107		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	1113		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	1118		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	1135		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
CCV	1.00	1140		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCB	1.00	1146		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	1151		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	1157		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	1202		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	3.00	1211		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ICSA	1.00	1216		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ICSAB	1.00	1222		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCV	1.00	1227		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCB	1.00	1233		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
312741	5.00	1348		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
313441	5.00	1353		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ICSA	1.00	1359		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ICSAB	1.00	1404		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCV	1.00	1409		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
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Q762

ANALYSIS RUN LOG

Lab Name: STL_EDISON_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:11944_

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 11/09/01 End Date: 11/09/01

Lab Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
CCB	1.00	1415		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
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ANALYSIS RUN LOG

Lab Name: STL_EDISON_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:11944_

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 11/09/01 End Date: 11/09/01

Lab Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
1CAL-BLK	1.00	1442		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	X
T1CAL1	1.00	1448		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
T1CAL2	1.00	1453		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
T1CAL3	1.00	1458		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	1504																									
ICV/CCV	1.00	1509													X												
ICB/CCB	1.00	1514													X												
ICSA	1.00	1520													X												
ICSAB	1.00	1525													X												
ZZZZZZ	1.00	1530																									
ZZZZZZ	1.00	1535																									
SS110901	1.00	1541													X												
BS110901	1.00	1546													X												
LCSS-248	2.00	1551													X												
SS-248-D	2.00	1557													X												
311085D	5.00	1602													X												
311085	5.00	1607													X												
CCV	1.00	1612													X												
CCB	1.00	1618													X												
311085L	5.00	1623													X												
311085MS	5.00	1628													X												
11085MSD	5.00	1634													X												
ZZZZZZ	5.00	1639													X												
311077	5.00	1644													X												
311078	5.00	1649													X												
311079	5.00	1655													X												
311080	5.00	1700													X												
311081	5.00	1705													X												
311082	5.00	1711													X												
CCV	1.00	1716													X												
CCB	1.00	1721													X												
311083	5.00	1726													X												

ANALYSIS RUN LOG

Lab Name: STL_EDISON_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:11944_

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 11/09/01 End Date: 11/09/01

Lab Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
311084	5.00	1732		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
311086	5.00	1737		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
311087	5.00	1742		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
312434	5.00	1748		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
312435	5.00	1753		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
312436	5.00	1758		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
312437	5.00	1803		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
312438	5.00	1809		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
312439	5.00	1814		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1819		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1825		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
312440	5.00	1830		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICSA	1.00	1835		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICSAB	1.00	1841		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1846		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1851		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1856		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1902		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	5.00	1907		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	5.00	1912		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICSA	1.00	1918		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICSAB	1.00	1923		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1928		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1933		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
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Multiple XRF Testing Results
L.E. Carpenter - Wharton, NJ
(units = mg/kg)

Sample Location		Non-Residential Cleanup Goal for Lead (ppm)	Date/Time	Chemical Analysis					
				Lead	Lead Error	Iron	Iron Error	SPLP Lead (mg/L)	Total Organic Carbon
SS-01	Run#1	600	11/6/2001 10:17	57.8	13.0	19,993.6	430.0		
	Run#2	600	11/6/2001 10:20	62.9	12.8	20,390.4	420.0		
	Run#3	600	11/6/2001 10:24	70.2	13.3	19,788.8	430.0		
	Average	600		63.6	13.0	20,057.6	426.7	NA	NA
SS-02	Run#1	600	11/6/2001 10:06	78.2	13.0	17,689.6	390.0		
	Run#2	600	11/6/2001 10:10	69.6	12.9	17,792.0	400.0		
	Run#3	600	11/6/2001 10:13	63.9	12.6	17,996.8	390.0		
	Average	600		70.6	12.8	17,826.1	393.3	NA	NA
SS-03	Run#1	600	11/6/2001 9:35	96.5	13.7	17,395.2	390.0	NA	NA
	Run#2	600	11/6/2001 9:38	108.6	14.3	17,088.0	390.0		
	Run#3	600	11/6/2001 9:42	94.2	13.7	17,190.4	390.0		
	Average	600		99.8	13.9	17,224.5	390.0	NA	NA
SS-04	Run#1	600	11/6/2001 9:45	149.1	15.8	19,699.2	430.0		
	Run#2	600	11/6/2001 9:49	146.0	15.6	19,788.8	430.0		
	Run#3	600	11/6/2001 9:52	141.9	15.8	20,096.0	440.0		
	Average	600		145.7	15.7	19,861.3	433.3	NA	NA
SS-05	Run#1	600	11/6/2001 9:56	225.8	18.2	22,092.8	470.0		
	Run#2	600	11/6/2001 9:59	225.2	18.0	21,593.6	460.0		
	Run#3	600	11/6/2001 10:03	236.6	18.2	22,092.8	460.0		
	Average	600		229.2	18.1	21,926.4	463.3	NA	NA
SS-06	Run#1	600	11/6/2001 8:34	427.2	21.0	25,600.0	480.0		
	Run#2	600	11/6/2001 8:38	419.6	21.5	25,292.8	490.0		
	Run#3	600	11/6/2001 9:31	403.6	21.3	25,497.6	490.0		
	Average	600		416.8	21.3	25,463.5	486.7	NA	NA
	Lab Results	600		457.0	NC	NA	NC		
SS-06 (1.25-1.5)	Run#1	600	11/14/2001 15:50	104.9	24.6	22,796.8	800.0		
	Run#2	600	11/14/2001 15:52	115.7	24.0	23,590.4	780.0		
	Run#3	600	11/14/2001 15:54	112.4	25.1	23,590.4	820.0		
	Average	600		111.0	24.6	23,325.9	800.0	NA	NA
SS-08	Run#1	600	11/6/2001 8:23	123.4	13.8	17,689.6	380.0		
	Run#2	600	11/6/2001 8:27	109.2	13.9	18,496.0	400.0		
	Run#3	600	11/6/2001 8:30	106.5	13.7	18,188.8	400.0		
	Average	600		113.0	13.8	18,124.8	393.3	NA	NA
SS-09 Aliquot 1	Run#1	600	11/6/2001 7:40	30.4	11.1	22,092.8	420.0		
	Run#2	600	11/6/2001 7:43	39.7	10.8	22,400.0	410.0		
	Run#3	600	11/6/2001 7:47	38.0	11.3	22,092.8	420.0		
	Average	600		36.0	11.1	22,195.2	416.7	NA	NA
SS-09 Aliquot 2	Run#1	600	11/6/2001 7:51	40.6	11.5	15,897.6	370.0		
	Run#2	600	11/6/2001 7:55	42.4	11.7	16,294.4	370.0		
	Run#3	600	11/6/2001 7:58	39.3	11.6	16,396.8	370.0		
	Average	600		40.8	11.6	16,196.3	370.0	NA	NA
SS-09 Aliquot 3	Run#1	600	11/6/2001 8:02	39.4	11.5	17,088.0	380.0		
	Run#2	600	11/6/2001 8:05	52.4	11.7	17,190.4	370.0		
	Run#3	600	11/6/2001 8:09	43.0	11.9	17,088.0	390.0		
	Average	600		44.9	11.7	17,122.1	380.0	NA	NA
SS-09 (2-2.5')	Run#1	600	11/14/2001 13:09	<LOD	35.7	24,793.6	889.6		
	Run#2	600	11/14/2001 13:10	<LOD	34.1	24,294.4	880.0		
	Run#3	600	11/14/2001 13:12	<LOD	35.6	24,588.8	889.6		
	Average	600		<35.1	35.1	24,558.9	886.4	NA	NA
SS-10	Run#1	600	11/6/2001 8:12	62.1	14.0	52,787.2	750.0		
	Run#2	600	11/6/2001 8:16	61.6	14.1	52,275.2	750.0		
	Run#3	600	11/6/2001 8:19	52.7	13.8	52,684.8	750.0		
	Average	600		58.8	14.0	52,582.4	750.0	NA	NA
SS-11	Run#1	600	11/6/2001 15:07	59.2	14.5	40,499.2	680.0		
	Run#2	600	11/6/2001 15:11	72.0	14.6	39,680.0	660.0		
	Run#3	600	11/6/2001 15:14	72.7	14.7	39,782.4	660.0		
	Average	600		68.0	14.6	39,987.2	666.7	NA	NA
SS-12	Run#1	600	11/6/2001 15:28	63.7	13.6	20,492.8	450.0		
	Run#2	600	11/6/2001 15:31	61.8	13.3	20,198.4	450.0		
	Run#3	600	11/6/2001 15:35	57.3	13.0	19,993.6	440.0		
	Average	600		60.9	13.3	20,228.3	446.7	NA	NA
SS-13	Run#1	600	11/7/2001 6:51	388.8	36.8	21,388.8	790.0		
	Run#2	600	11/7/2001 6:52	380.0	36.2	19,993.6	760.0		
	Run#3	600	11/7/2001 6:54	375.4	36.5	21,196.8	790.0		
	Average	600		381.4	36.5	20,859.7	780.0	NA	NA
SS-14	Run#1	600	11/6/2001 14:57	223.0	21.1	39,193.6	720.0		
	Run#2	600	11/6/2001 15:00	226.8	20.8	37,580.8	700.0		
	Run#3	600	11/6/2001 15:04	234.6	21.0	38,195.2	700.0		
	Average	600		228.1	21.0	38,323.2	706.7	NA	NA
SS-15	Run#1	600	11/6/2001 15:18	426.0	25.6	35,993.6	690.0		
	Run#2	600	11/6/2001 15:21	403.2	24.9	34,483.2	670.0		
	Run#3	600	11/6/2001 15:25	399.0	24.9	34,790.4	670.0		
	Average	600		409.4	25.1	35,089.1	676.7	NA	NA

Multiple XRF Testing Results
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(units = mg/kg)

Sample Location		Non-Residential Cleanup Goal for Lead (ppm)	Date/Time	Chemical Analysis					
				Lead	Lead Error	Iron	Iron Error	SPLP Lead (mg/L)	Total Organic Carbon
SS-16	Run#1	600	11/5/2001 4:21	736.0	32.4	63,385.6	969.6		
	Run#2	600	11/5/2001 4:25	760.4	32.9	62,668.8	969.6		
	Run#3	600	11/5/2001 4:28	744.8	32.7	63,692.8	980.0		
	Average	600		**747.1**	**32.7**	**63,249.1**	**973.1**	**NA**	**NA**
	Lab Results	600		**584.0**	**NC**	**NA**	**NC**	**NA**	**NA**
SS-16 Rock Portion	Run#1	600	11/6/2001 11:52	21.2	13.2	13,990.4	410.0		
	Run#2	600	11/6/2001 11:55	<LOD	19.2	13,593.6	410.0		
	Run#3	600	11/6/2001 11:59	20.6	13.2	13,798.4	410.0		
	Average	600		**20.3**	**15.2**	**13,794.1**	**410.0**	**NA**	**NA**
SS-16 (3-4')	Run#1	600	11/11/2001 17:54	747.6	52.3	26,099.2	949.6		
	Run#2	600	11/11/2001 17:55	657.2	48.9	26,393.6	940.0		
	Run#3	600	11/11/2001 17:57	732.4	51.8	26,291.2	949.6		
	Average	600		**712.4**	**51.0**	**26,261.3**	**946.4**	**NA**	**NA**
	Lab Results	600		**411.0**	**NC**	**NA**	**NC**	**NA**	**51,300**
SS-16 (9-10')	Run#1	600	11/12/2001 6:55	51.7	24.5	25,996.8	920.0		
	Run#2	600	11/12/2001 6:57	50.9	24.4	24,793.6	900.0		
	Run#3	600	11/12/2001 6:58	<LOD	34.5	24,499.2	889.6		
	Average	600		**45.7**	**27.8**	**25,096.5**	**903.2**	**NA**	**NA**
SS-17	Run#1	600	11/7/2001 6:56	310.2	37.8	24,294.4	929.6		
	Run#2	600	11/7/2001 6:57	262.8	36.6	24,499.2	940.0		
	Run#3	600	11/7/2001 6:59	285.8	37.4	24,588.8	940.0		
	Average	600		**286.3**	**37.3**	**24,460.8**	**936.5**	**NA**	**NA**
SS-17 (5-6')	Run#1	600	11/11/2001 15:05	7,315.2	190.0	3,440.0	380.0		
	Run#2	600	11/11/2001 15:06	7,366.4	190.0	3,507.2	390.0		
	Run#3	600	11/11/2001 15:08	7,097.6	190.0	3,280.0	370.0		
	Average	600		**7,259.7**	**190.0**	**3,409.1**	**380.0**	**NA**	**NA**
	Lab Results	600		**10,500.0**	**NC**	**NA**	**NC**	**0.009**	**461,000**
SS-17 (8-9')	Run#1	600	11/12/2001 7:00	216.2	31.7	17,792.0	740.0		
	Run#2	600	11/12/2001 7:01	200.9	30.9	17,190.4	730.0		
	Run#3	600	11/12/2001 7:03	171.6	29.9	17,497.6	730.0		
	Average	600		**196.2**	**30.8**	**17,493.3**	**733.3**	**NA**	**NA**
SS-17-A	Run#1	600	11/14/2001 14:05	119,910.4	2,899.2	32,076.8	1,699.2		
	Run#2	600	11/14/2001 14:10	119,910.4	2,899.2	33,177.6	1,800.0		
	Run#3	600	11/14/2001 14:12	117,964.8	2,800.0	33,280.0	1,800.0		
	Average	600		**119,261.9**	**2,866.1**	**32,844.8**	**1,766.4**	**NA**	**NA**
SS-18	Run#1	600	11/6/2001 13:21	39.7	12.5	14,400.0	370.0		
	Run#2	600	11/6/2001 13:24	40.7	12.4	14,694.4	380.0		
	Run#3	600	11/6/2001 13:28	37.2	12.3	14,694.4	380.0		
	Average	600		**39.2**	**12.4**	**14,596.3**	**376.7**	**NA**	**NA**
SS-19	Run#1	600	11/7/2001 8:14	<LOD	37.1	9,760.0	610.0		
	Run#2	600	11/7/2001 8:16	<LOD	39.0	9,568.0	610.0		
	Run#3	600	11/7/2001 8:17	<LOD	38.6	9,484.8	610.0		
	Average	600		**<38.2**	**38.2**	**9,604.3**	**610.0**	**NA**	**NA**
SS-19 (3-4')	Run#1	600	11/11/2001 15:12	79.8	25.3	19,097.6	770.0		
	Run#2	600	11/11/2001 15:13	83.6	25.4	19,097.6	760.0		
	Run#3	600	11/11/2001 15:16	91.7	25.8	19,200.0	770.0		
	Average	600		**85.0**	**25.5**	**19,131.7**	**766.7**	**NA**	**NA**
SS-19 (8-9')	Run#1	600	11/11/2001 17:29	<LOD	38.7	27,289.6	1,000.0		
	Run#2	600	11/11/2001 17:30	<LOD	38.6	24,089.6	980.0		
	Run#3	600	11/11/2001 17:32	<LOD	38.6	24,691.2	969.6		
	Average	600		**<38.6**	**38.6**	**25,356.8**	**983.2**	**NA**	**NA**
SS-20	Run#1	600	11/7/2001 8:10	219.6	31.7	18,496.0	750.0		
	Run#2	600	11/7/2001 8:11	192.0	30.9	17,792.0	740.0		
	Run#3	600	11/7/2001 8:13	186.1	30.4	18,393.6	750.0		
	Average	600		**199.2**	**31.0**	**18,227.2**	**746.7**	**NA**	**NA**
SS-21	Run#1	600	11/6/2001 15:50	232.2	16.4	15,692.8	360.0		
	Run#2	600	11/6/2001 15:55	229.6	17.2	15,398.4	370.0		
	Run#3	600	11/6/2001 16:03	229.6	17.3	15,398.4	370.0		
	Average	600		**230.5**	**17.0**	**15,496.5**	**366.7**	**NA**	**NA**
SS-21 (3-4')	Run#1	600	11/11/2001 17:11	48.6	19.9	14,297.6	600.0		
	Run#2	600	11/11/2001 17:12	66.5	20.9	14,694.4	600.0		
	Run#3	600	11/11/2001 17:13	77.1	21.4	14,297.6	590.0		
	Average	600		**64.1**	**20.7**	**14,429.9**	**596.7**	**NA**	**NA**
SS-21 (5-6')	Run#1	600	11/11/2001 17:33	36.9	23.8	16,396.8	710.0		
	Run#2	600	11/11/2001 17:34	37.7	23.6	16,896.0	720.0		
	Run#3	600	11/11/2001 17:36	<LOD	33.2	16,499.2	710.0		
	Average	600		**35.9**	**26.9**	**16,597.3**	**713.3**	**NA**	**NA**
SS-22	Run#1	600	11/7/2001 8:30	72.7	25.8	23,488.0	880.0		
	Run#2	600	11/7/2001 8:33	46.5	24.4	23,590.4	869.6		
	Run#3	600	11/7/2001 8:34	50.2	25.0	23,091.2	869.6		
	Average	600		**56.5**	**25.1**	**23,389.9**	**873.1**	**NA**	**NA**

Multiple XRF Testing Results
L.E. Carpenter - Wharton, NJ
(units = mg/kg)

Sample Location		Non-Residential Cleanup Goal for Lead (ppm)	Date/Time	Chemical Analysis					
				Lead	Lead Error	Iron	Iron Error	SPLP Lead (mg/L)	Total Organic Carbon
SS-23	Run#1	600	11/7/2001 8:22	570.0	49.3	37,990.4	1,200.0		
	Run#2	600	11/7/2001 8:24	548.0	48.9	37,990.4	1,200.0		
	Run#3	600	11/7/2001 8:25	515.6	47.7	37,785.6	1,200.0		
	Average	600		544.5	48.6	37,922.1	1,200.0	NA	NA
	Lab Results	600		565.0	NC	NA	NC	NA	NA
SS-23 (2-3')	Run#1	600	11/13/2001 10:59	2,600.0	97.0	33,177.6	1,100.0		
	Run#2	600	11/13/2001 11:00	2,569.6	97.4	32,998.4	1,100.0		
	Run#3	600	11/13/2001 11:02	2,529.6	96.3	34,688.0	1,100.0		
	Average	600		2,566.4	96.9	33,621.3	1,100.0	NA	NA
	Lab Results	600		2,540.0	NC	NA	NC	0.006	108,000
SS-23 (7-8')	Run#1	600	11/13/2001 13:41	90.1	23.7	15,897.6	660.0		
	Run#2	600	11/13/2001 13:43	118.0	25.0	16,793.6	670.0		
	Run#3	600	11/13/2001 13:44	101.7	24.4	16,499.2	670.0		
	Average	600		103.3	24.4	16,396.8	666.7	NA	NA
SS-24	Run#1	600	11/6/2001 16:17	2,339.2	69.0	144,998.4	2,099.2		
	Run#2	600	11/6/2001 16:21	2,339.2	68.5	143,974.4	2,099.2		
	Run#3	600	11/6/2001 16:24	2,289.6	67.9	146,944.0	2,099.2		
	Average	600		2,322.7	68.5	145,305.6	2,099.2	NA	NA
	Lab Results	600		2330	NC	87,300.0	NC	NA	NA
SS-24 (2-3')	Run#1	600	11/13/2001 10:47	668.8	52.2	47,078.4	1,400.0		
	Run#2	600	11/13/2001 10:48	607.2	50.2	47,283.2	1,400.0		
	Run#3	600	11/13/2001 10:50	606.4	49.9	46,284.8	1,400.0		
	Average	600		627.5	50.8	46,882.1	1,400.0	NA	NA
	Lab Results	600		549.0	NC	NA	NC	NA	67,200
SS-24 (6-7')	Run#1	600	11/13/2001 13:37	<LOD	36.6	25,894.4	940.0		
	Run#2	600	11/13/2001 13:38	<LOD	36.6	26,675.2	960.0		
	Run#3	600	11/13/2001 13:39	<LOD	35.1	26,496.0	949.6		
	Average	600		<36.1	36.1	26,355.2	949.9	NA	NA
SS-25	Run#1	600	11/6/2001 16:07	1,049.6	41.0	75,776.0	1,200.0		
	Run#2	600	11/6/2001 16:10	1,060.0	41.5	76,851.2	1,200.0		
	Run#3	600	11/6/2001 16:14	1,040.0	41.0	76,288.0	1,200.0		
	Average	600		1,049.9	41.2	76,305.1	1,200.0	NA	NA
	Lab Results	600		1520	NC	66,300.0	NC	NA	NA
SS-25 (3-4')	Run#1	600	11/13/2001 10:43	64.3	23.5	25,088.0	849.6		
	Run#2	600	11/13/2001 10:44	83.3	24.2	24,793.6	849.6		
	Run#3	600	11/13/2001 10:45	45.8	22.1	23,897.6	829.6		
	Average	600		64.5	23.3	24,593.1	842.9	NA	NA
SS-25 (7-8')	Run#1	600	11/13/2001 13:32	129.5	30.9	33,689.6	1,100.0		
	Run#2	600	11/13/2001 13:34	148.6	31.6	32,896.0	1,100.0		
	Run#3	600	11/13/2001 13:35	133.7	31.1	33,996.8	1,100.0		
	Average	600		137.3	31.2	33,527.5	1,100.0	NA	NA
SS-26	Run#1	600	11/7/2001 6:46	1,349.6	85.1	90,880.0	2,499.2		
	Run#2	600	11/7/2001 6:48	1,260.0	83.7	93,184.0	2,499.2		
	Run#3	600	11/7/2001 6:49	1,309.6	84.5	92,262.4	2,499.2		
	Average	600		1,306.4	84.4	92,108.8	2,499.2	NA	NA
	Lab Results	600		1,260.0	NC	NA	NC	NA	NA
SS-26 (2-3')	Run#1	600	11/13/2001 10:51	411.2	38.2	21,593.6	800.0		
	Run#2	600	11/13/2001 10:52	418.8	38.1	21,990.4	810.0		
	Run#3	600	11/13/2001 10:54	425.6	38.6	22,400.0	820.0		
	Average	600		418.5	38.3	21,994.7	810.0	NA	NA
	Lab Results	600		316.0	NC	NA	NC	NA	18,300
SS-26 (6.5-7.5')	Run#1	600	11/13/2001 14:32	74.0	24.6	22,592.0	829.6		
	Run#2	600	11/13/2001 14:33	75.7	24.8	22,195.2	820.0		
	Run#3	600	11/13/2001 14:35	80.5	25.0	21,990.4	820.0		
	Average	600		76.7	24.8	22,259.2	823.2	NA	NA
SS-26 (6.5-7.5') Rerun**	Run#1	600	11/13/2001 14:37	83.3	25.0	21,990.4	820.0		
	Run#2	600	11/13/2001 14:38	87.5	25.4	22,489.6	829.6		
	Average	600		85.4	25.2	22,240.0	824.8	NA	NA
SS-27	Run#1	600	11/7/2001 8:26	354.0	39.4	21,593.6	860.0		
	Run#2	600	11/7/2001 8:28	355.8	39.0	21,798.4	860.0		
	Run#3	600	11/7/2001 8:29	306.4	37.2	21,491.2	860.0		
	Average	600		338.7	38.5	21,627.7	860.0	NA	NA
SS-27 (1-2')	Run#1	600	11/13/2001 12:58	40.4	18.8	21,388.8	700.0		
	Run#2	600	11/13/2001 12:59	32.5	18.5	21,196.8	690.0		
	Run#3	600	11/13/2001 13:01	38.2	18.3	20,492.8	680.0		
	Average	600		37.0	18.5	21,026.1	690.0	NA	NA
SS-27 (7-8')	Run#1	600	11/13/2001 14:44	<LOD	35.4	24,793.6	909.6		
	Run#2	600	11/13/2001 14:46	<LOD	35.1	24,691.2	909.6		
	Run#3	600	11/13/2001 14:47	<LOD	37.1	24,691.2	909.6		
	Average	600		<35.9	35.9	24,725.3	909.6	NA	NA
SS-28	Run#1	600	11/7/2001 6:22	<LOD	33.9	22,489.6	849.6		
	Run#2	600	11/7/2001 6:23	<LOD	34.1	22,988.8	900.0		
	Run#3	600	11/7/2001 6:25	<LOD	32.9	22,988.8	900.0		
	Average	600		<33.6	33.6	22,822.4	883.2	NA	NA
	Lab Results	600		8.6	NC	30,600.0	NC	NA	NA

Multiple XRF Testing Results
L.E. Carpenter - Wharton, NJ
(units = mg/kg)

Sample Location		Non-Residential Cleanup Goal for Lead (ppm)	Date/Time	Chemical Analysis					
				Lead	Lead Error	Iron	Iron Error	SPLP Lead (mg/L)	Total Organic Carbon
SS-29	Run#1	600	11/7/2001 8:18	<LOD	33.2	23,091.2	869.6		
	Run#2	600	11/7/2001 8:20	<LOD	34.2	22,899.2	869.6		
	Run#3	600	11/7/2001 8:21	<LOD	34.1	21,990.4	849.6		
	Average	600		<33.8	33.8	22,660.3	862.9	NA	NA
	Lab Results	600		9.4	NC	NA	NC	NA	NA
SS-30	Run#1	600	11/7/2001 8:02	49.1	18.6	17,395.2	610.0		
	Run#2	600	11/7/2001 8:03	50.9	18.6	17,190.4	610.0		
	Run#3	600	11/7/2001 8:05	41.6	18.0	17,292.8	610.0		
	Average	600		47.2	18.4	17,292.8	610.0	NA	NA
SS-30 (4-5')	Run#1	600	11/11/2001 17:20	137.4	29.4	27,084.8	949.6		
	Run#2	600	11/11/2001 17:21	135.9	29.4	27,699.2	949.6		
	Run#3	600	11/11/2001 17:23	123.3	28.7	27,776.0	960.0		
	Average	600		132.2	29.2	27,520.0	953.1	NA	NA
SS-30 (8-9')	Run#1	600	11/11/2001 17:49	<LOD	33.6	19,891.2	780.0		
	Run#2	600	11/11/2001 17:51	<LOD	34.2	19,494.4	780.0		
	Run#3	600	11/11/2001 17:52	44.4	23.9	19,494.4	780.0		
	Average	600		37.4	30.6	19,626.7	780.0	NA	NA
SS-31	Run#1	600	11/6/2001 12:59	146.4	17.0	33,996.8	620.0		
	Run#2	600	11/6/2001 13:03	130.5	16.5	33,894.4	610.0		
	Run#3	600	11/6/2001 13:06	129.7	16.5	33,689.6	610.0		
	Average	600		135.5	16.7	33,860.3	613.3	NA	NA
SS-31 (3-4')	Run#1	600	11/11/2001 15:18	71.0	33.9	25,792.0	1,200.0		
	Run#2	600	11/11/2001 15:19	85.4	26.9	26,496.0	940.0		
	Run#3	600	11/11/2001 15:20	50.2	25.2	25,292.8	920.0		
	Average	600		68.9	28.7	25,860.3	1,020.0	NA	NA
SS-31 (8-9')	Run#1	600	11/11/2001 17:37	47.7	22.1	22,092.8	790.0		
	Run#2	600	11/11/2001 17:38	61.4	22.4	22,297.6	800.0		
	Run#3	600	11/11/2001 17:40	39.6	21.5	21,696.0	790.0		
	Average	600		49.6	22.0	22,028.8	793.3	NA	NA
SS-32	Run#1	600	11/7/2001 6:39	114.9	28.6	23,398.4	889.6		
	Run#2	600	11/7/2001 6:41	116.0	29.2	23,296.0	900.0		
	Run#3	600	11/7/2001 6:44	102.1	28.4	23,590.4	900.0		
	Average	600		111.0	28.7	23,428.3	896.5	NA	NA
SS-33	Run#1	600	11/7/2001 6:30	<LOD	33.9	21,388.8	849.6		
	Run#2	600	11/7/2001 6:32	<LOD	32.6	20,595.2	829.6		
	Run#3	600	11/7/2001 6:33	<LOD	34.8	20,889.6	840.0		
	Average	600		<33.8	33.8	20,957.9	839.7	NA	NA
	Lab Results	600		9.6	NC	NA	NC	NA	NA
SS-34	Run#1	600	11/6/2001 15:40	<LOD	21.5	20,096.0	520.0		
	Run#2	600	11/6/2001 15:43	<LOD	21.0	19,788.8	520.0		
	Run#3	600	11/6/2001 15:47	<LOD	20.9	19,200.0	500.0		
	Average	600		<21.1	21.1	19,694.9	513.3	NA	NA
	Lab Results	600		12.3	NC	NA	NC	NA	NA
SS-35	Run#1	600	11/6/2001 12:49	287.4	21.5	32,793.6	630.0		
	Run#2	600	11/6/2001 12:52	276.4	21.1	32,384.0	620.0		
	Run#3	600	11/6/2001 12:56	262.8	21.0	33,177.6	630.0		
	Average	600		275.5	21.2	32,785.1	626.7	NA	NA
SS-35 (3-4')	Run#1	600	11/11/2001 17:15	<LOD	30.6	21,196.8	780.0		
	Run#2	600	11/11/2001 17:16	<LOD	30.3	20,992.0	780.0		
	Run#3	600	11/11/2001 17:18	<LOD	29.6	21,094.4	770.0		
	Average	600		<30.2	30.2	21,094.4	776.7	NA	NA
SS-35 (8-9')	Run#1	600	11/11/2001 18:00	<LOD	40.2	23,398.4	940.0		
	Run#2	600	11/11/2001 18:01	<LOD	40.2	24,089.6	949.6		
	Run#3	600	11/11/2001 18:02	<LOD	37.1	22,899.2	929.6		
	Average	600		<39.2	39.2	23,462.4	939.7	NA	NA
SS-36	Run#1	600	11/7/2001 6:34	1,460.0	92.0	97,894.4	2,699.2		
	Run#2	600	11/7/2001 6:36	1,469.6	93.1	96,460.8	2,699.2		
	Run#3	600	11/7/2001 6:37	1,480.0	93.7	99,993.6	2,800.0		
	Average	600		1,469.9	92.9	98,116.3	2,732.8	NA	NA
	Lab Results	600		1720	NC	67,800.0	NC	NA	NA
SS-37	Run#1	600	11/6/2001 12:25	180.9	17.4	23,488.0	490.0		
	Run#2	600	11/6/2001 12:30	191.1	17.7	23,692.8	500.0		
	Run#3	600	11/6/2001 12:33	205.6	17.9	23,590.4	490.0		
	Average	600		192.5	17.7	23,590.4	493.3	NA	NA
SS-37 (8-9')	Run#1	600	11/13/2001 14:27	137.7	29.9	26,675.2	960.0		
	Run#2	600	11/13/2001 14:29	106.1	28.6	25,996.8	940.0		
	Run#3	600	11/13/2001 14:30	155.1	30.8	25,996.8	940.0		
	Average	600		133.0	29.8	26,222.9	946.7	NA	NA
SS-37 (8-9') Rerun**	Run#1	600	11/13/2001 14:40	148.6	30.6	22,297.6	869.6		
	Run#2	600	11/13/2001 14:42	158.5	31.0	22,092.8	869.6		
	Run#3	600	11/13/2001 14:43	132.2	29.5	21,094.4	840.0		
	Average	600		146.4	30.4	21,828.3	859.7	NA	NA

Multiple XRF Testing Results
L.E. Carpenter - Wharton, NJ
(units = mg/kg)

Sample Location		Non-Residential Cleanup Goal for Lead (ppm)	Date/Time	Chemical Analysis					
				Lead	Lead Error	Iron	Iron Error	SPLP Lead (mg/L)	Total Organic Carbon
SS-38	Run#1	600	11/6/2001 11:41	186.7	16.9	16,089.6	400.0		
	Run#2	600	11/6/2001 11:45	192.8	17.0	16,089.6	400.0		
	Run#3	600	11/6/2001 11:48	192.9	16.9	16,192.0	400.0		
	Average	600		190.8	16.9	16,123.7	400.0	NA	NA
SS-38 (3-4')	Run#1	600	11/13/2001 10:55	38.5	23.9	16,089.6	710.0		
	Run#2	600	11/13/2001 10:56	47.5	24.2	16,000.0	710.0		
	Run#3	600	11/13/2001 10:58	48.6	24.0	16,000.0	710.0		
	Average	600		44.9	24.0	16,029.9	710.0	NA	NA
SS-39	Run#1	600	11/6/2001 16:44	52.5	23.2	17,497.6	720.0		
	Run#2	600	11/6/2001 16:46	34.1	21.9	16,588.8	700.0		
	Run#3	600	11/6/2001 16:47	48.9	22.8	17,190.4	720.0		
	Average	600		45.2	22.6	17,092.3	713.3	NA	NA
SS-40	Run#1	600	11/6/2001 14:09	69.2	13.6	21,798.4	460.0		
	Run#2	600	11/6/2001 14:17	55.5	13.4	21,990.4	460.0		
	Run#3	600	11/6/2001 14:20	62.1	13.5	22,400.0	470.0		
	Average	600		62.3	13.5	22,062.9	463.3	NA	NA
SS-40 (2-3')	Run#1	600	11/14/2001 13:13	40.2	22.6	22,988.8	829.6		
	Run#2	600	11/14/2001 13:15	<LOD	33.3	23,590.4	840.0		
	Run#3	600	11/14/2001 13:16	<LOD	33.0	22,489.6	820.0		
	Average	600		35.5	29.6	23,022.9	829.9	NA	NA
SS-41	Run#1	600	11/6/2001 14:46	757.2	24.7	18,393.6	380.0		
	Run#2	600	11/6/2001 14:49	763.2	25.0	19,200.0	390.0		
	Run#3	600	11/6/2001 14:53	758.8	24.9	19,200.0	390.0		
	Average	600		759.7	24.9	18,931.2	386.7	NA	NA
	Lab Results	600		1,110.0	NC	NA	NC	NA	NA
SS-41 (1-1.5')	Run#1	600	11/14/2001 10:46	429.2	27.3	14,988.8	480.0		
	Run#2	600	11/14/2001 10:47	414.4	27.1	15,398.4	490.0		
	Run#3	600	11/14/2001 10:49	418.8	27.0	14,899.2	480.0		
	Average	600		420.8	27.1	15,095.5	483.3	NA	NA
	Lab Results	600		495.0	NC	NA	NC	NA	631,000
SS-41 (4-5')	Run#1	600	11/14/2001 14:34	<LOD	16.8	5,929.6	290.0		
	Run#2	600	11/14/2001 14:35	<LOD	17.4	5,638.4	290.0		
	Run#3	600	11/14/2001 14:37	<LOD	17.4	5,737.6	290.0		
	Average	600		<17.2	17.2	5,768.5	290.0	NA	NA
SS-41-A	Run#1	600	11/15/2001 11:39	67.1	23.1	17,689.6	710.0		
	Run#2	600	11/15/2001 11:40	69.0	23.3	17,894.4	720.0		
	Run#3	600	11/15/2001 11:42	52.7	22.1	17,497.6	710.0		
	Average	600		62.9	22.8	17,693.9	713.3	NA	NA
SS-41-B	Run#1	600	11/15/2001 11:43	770.8	43.6	23,692.8	750.0		
	Run#2	600	11/15/2001 11:45	814.8	45.0	24,588.8	770.0		
	Run#3	600	11/15/2001 11:46	765.2	43.7	24,294.4	760.0		
	Average	600		783.6	44.1	24,192.0	760.0	NA	NA
SS-41-C	Run#1	600	11/15/2001 11:48	297.8	30.9	18,892.8	710.0		
	Run#2	600	11/15/2001 11:49	255.4	29.9	18,892.8	700.0		
	Run#3	600	11/15/2001 11:51	283.0	31.2	18,995.2	700.0		
	Average	600		272.1	30.7	18,926.9	703.3		
SS-42	Run#1	600	11/7/2001 6:26	308.2	35.7	18,393.6	770.0		
	Run#2	600	11/7/2001 6:27	258.8	33.1	18,291.2	750.0		
	Run#3	600	11/7/2001 6:29	281.6	35.0	18,790.4	780.0		
	Average	600		282.9	34.6	18,491.7	766.7	NA	NA
SS-42 (1-2')	Run#1	600	11/14/2001 10:50	390.4	25.8	14,297.6	460.0		
	Run#2	600	11/14/2001 10:52	365.2	25.1	13,798.4	460.0		
	Run#3	600	11/14/2001 10:54	386.4	25.7	14,400.0	470.0		
	Average	600		380.7	25.5	14,165.3	463.3	NA	NA
	Lab Results	600		275.0	NC	NA	NC	NA	874,000
SS-42 (3-4')	Run#1	600	11/14/2001 12:49	<LOD	35.4	30,899.2	1,000.0		
	Run#2	600	11/14/2001 12:50	<LOD	36.6	31,590.4	1,000.0		
	Run#3	600	11/14/2001 12:51	<LOD	36.5	32,384.0	1,100.0		
	Average	600		<36.2	36.2	31,624.5	1,033.3	NA	NA
SS-42 (5-6')	Run#1	600	11/14/2001 14:43	<LOD	34.1	22,796.8	829.6		
	Run#2	600	11/14/2001 14:44	<LOD	33.2	21,388.8	800.0		
	Run#3	600	11/14/2001 14:45	<LOD	32.4	21,299.2	790.0		
	Average	600		<33.2	33.2	21,828.3	806.5	NA	NA
SS-43	Run#1	600	11/7/2001 7:00	607.6	55.1	57,190.4	1,699.2		
	Run#2	600	11/7/2001 7:02	617.6	56.1	58,265.6	1,699.2		
	Run#3	600	11/7/2001 7:03	648.0	56.9	58,982.4	1,699.2		
	Average	600		624.4	56.0	58,146.1	1,699.2	NA	NA
	Lab Results	600		709.0	NC	NA	NC	NA	NA
SS-43 (0.5-1.5')	Run#1	600	11/14/2001 8:25	197.2	31.3	32,000.0	1,000.0		
	Run#2	600	11/14/2001 8:26	222.8	32.2	30,284.8	969.6		
	Run#3	600	11/14/2001 8:28	231.2	32.5	30,796.8	989.6		
	Average	600		217.1	32.0	31,027.2	986.4	NA	NA
	Lab Results	600		231.0	NC	NA	NC	NA	150,000

Multiple XRF Testing Results
L.E. Carpenter - Wharton, NJ
(units = mg/kg)

Sample Location		Non-Residential Cleanup Goal for Lead (ppm)	Date/Time	Chemical Analysis					
				Lead	Lead Error	Iron	Iron Error	SPLP Lead (mg/L)	Total Organic Carbon
SS-43 (1.5-2.5')	Run#1	600	11/14/2001 8:21	130.3	25.7	30,489.6	920.0		
	Run#2	600	11/14/2001 8:22	114.4	26.6	29,977.6	949.6		
	Run#3	600	11/14/2001 8:23	115.3	26.5	28,876.8	929.6		
	Average	600		120.0	26.3	29,781.3	933.1	NA	NA
SS-43 (6-7')	Run#1	600	11/14/2001 14:49	<LOD	31.2	18,995.2	720.0		
	Run#2	600	11/14/2001 14:51	<LOD	30.8	19,392.0	720.0		
	Run#3	600	11/14/2001 14:52	32.6	20.3	18,995.2	710.0		
	Average	600		31.5	27.4	19,127.5	716.7	NA	NA
SS-44	Run#1	600	11/6/2001 14:35	297.4	19.5	21,593.6	460.0		
	Run#2	600	11/6/2001 14:38	316.6	19.9	21,798.4	460.0		
	Run#3	600	11/6/2001 14:42	289.6	19.4	22,400.0	470.0		
	Average	600		301.2	19.6	21,930.7	463.3	NA	NA
SS-44 (3-4')	Run#1	600	11/14/2001 12:58	240.6	31.3	22,195.2	800.0		
	Run#2	600	11/14/2001 13:00	275.4	32.4	21,593.6	790.0		
	Run#3	600	11/14/2001 13:01	250.8	31.4	21,798.4	790.0		
	Average	600		255.6	31.7	21,862.4	793.3	NA	NA
	Lab Results	600		234.0	NC	NA	NC	NA	62,200
SS-45	Run#1	600	11/6/2001 13:58	187.4	17.5	20,390.4	460.0		
	Run#2	600	11/6/2001 14:01	203.1	18.1	21,299.2	470.0		
	Run#3	600	11/6/2001 14:05	192.8	17.7	20,992.0	470.0		
	Average	600		194.4	17.8	20,893.9	466.7	NA	NA
SS-45 (2-3')	Run#1	600	11/13/2001 15:12	127.0	27.6	21,798.4	820.0		
	Run#2	600	11/13/2001 15:13	164.8	29.1	21,990.4	829.6		
	Run#3	600	11/13/2001 15:15	166.6	29.6	22,400.0	829.6		
	Average	600		152.8	28.8	22,062.9	826.4	NA	NA
	Lab Results	600		181.0	NC	NA	NC	NA	28,300
SS-45 (9-10')	Run#1	600	11/14/2001 7:17	<LOD	37.2	30,899.2	1,100.0		
	Run#2	600	11/14/2001 7:38	<LOD	36.2	31,180.8	1,100.0		
	Run#3	600	11/14/2001 7:40	<LOD	35.7	31,078.4	1,100.0		
	Average	600		<36.4	36.4	31,052.8	1,100.0	NA	NA
SS-46	Run#1	600	11/7/2001 7:05	104.0	27.5	12,396.8	660.0		
	Run#2	600	11/7/2001 7:06	120.1	28.4	12,198.4	650.0		
	Run#3	600	11/7/2001 7:07	95.2	26.7	12,595.2	660.0		
	Average	600		106.4	27.5	12,396.8	656.7	NA	NA
SS-47	Run#1	600	11/7/2001 6:13	461.2	40.6	24,294.4	869.6		
	Run#2	600	11/7/2001 6:15	472.8	41.1	24,793.6	869.6		
	Run#3	600	11/7/2001 6:16	452.0	40.3	24,396.8	869.6		
	Average	600		462.0	40.7	24,494.9	869.6	NA	NA
	Lab Results	600		315.0	NC	NA	NC	NA	NA
SS-47 Crushed Rock		600	11/15/2001 11:58	366.0	38.3	31,795.2	1,000.0	NA	NA
SS-47 (1-2')	Run#1	600	11/13/2001 14:13	713.2	53.2	19,289.6	829.6		
	Run#2	600	11/13/2001 14:15	650.4	51.2	19,200.0	820.0		
	Run#3	600	11/13/2001 14:18	620.0	50.4	19,596.8	829.6		
	Average	600		661.2	51.6	19,362.1	826.4	NA	NA
	Lab Results	600		754.0	NC	NA	NC	NA	399,000
SS-47 (2-3')	Run#1	600	11/13/2001 16:03	264.0	34.5	30,694.4	1,000.0		
	Run#2	600	11/13/2001 16:04	217.6	32.4	29,875.2	989.6		
	Run#3	600	11/13/2001 16:06	230.8	33.2	29,696.0	989.6		
	Average	600		237.5	33.4	30,088.5	993.1	NA	NA
	Lab Results	600		250.0	NC	NA	NC	NA	33,000
SS-47 (9-10')	Run#1	600	11/14/2001 8:04	<LOD	35.1	27,392.0	980.0		
	Run#2	600	11/14/2001 8:05	<LOD	34.4	26,982.4	960.0		
	Run#3	600	11/14/2001 8:07	<LOD	34.1	27,289.6	969.6		
	Average	600		<34.5	34.5	27,221.3	969.9	NA	NA
SS-48	Run#1	600	11/6/2001 14:25	147.5	15.0	22,796.8	460.0		
	Run#2	600	11/6/2001 14:28	177.0	15.8	22,400.0	450.0		
	Run#3	600	11/6/2001 14:32	158.8	15.4	22,796.8	460.0		
	Average	600		161.1	15.4	22,664.5	456.7	NA	NA
SS-48 (3-4')	Run#1	600	11/13/2001 15:54	<LOD	31.1	24,896.0	849.6		
	Run#2	600	11/13/2001 15:55	46.3	21.6	24,588.8	840.0		
	Run#3	600	11/13/2001 15:57	46.1	22.0	24,499.2	849.6		
	Average	600		41.2	24.9	24,661.3	846.4	NA	NA
SS-48 (8-9')	Run#1	600	11/14/2001 8:00	<LOD	36.0	23,795.2	889.6		
	Run#2	600	11/14/2001 8:01	<LOD	36.3	23,488.0	880.0		
	Run#3	600	11/14/2001 8:03	<LOD	33.2	23,488.0	880.0		
	Average	600		<35.2	35.2	23,590.4	883.2	NA	NA
SS-49	Run#1	600	11/7/2001 8:06	106.9	28.5	31,897.6	1,100.0		
	Run#2	600	11/7/2001 8:07	126.4	29.2	31,488.0	1,000.0		
	Run#3	600	11/7/2001 8:09	122.4	29.1	31,897.6	1,000.0		
	Average	600		118.6	28.9	31,761.1	1,033.3	NA	NA
SS-49 (6-7')	Run#1	600	11/14/2001 8:43	74.7	25.8	31,795.2	1,000.0		
	Run#2	600	11/14/2001 8:45	67.1	25.8	32,486.4	1,000.0		
	Run#3	600	11/14/2001 8:46	83.0	26.9	31,692.8	1,000.0		
	Average	600		74.9	26.2	31,991.5	1,000.0	NA	NA

Multiple XRF Testing Results
L.E. Carpenter - Wharton, NJ
(units = mg/kg)

Sample Location		Non-Residential Cleanup Goal for Lead (ppm)	Date/Time	Chemical Analysis					
				Lead	Lead Error	Iron	Iron Error	SFLP Lead (mg/L)	Total Organic Carbon
SS-50	Run#1	600	11/6/2001 10:34	76.1	16.0	39,193.6	700.0		
	Run#2	600	11/6/2001 11:31	96.8	16.6	39,091.2	700.0		
	Run#3	600	11/6/2001 11:34	88.2	16.2	39,577.6	700.0		
	Average	600		87.0	16.3	39,287.5	700.0	NA	NA
SS-50 Rock Portion	Run#1	600	11/6/2001 11:38	<LOD	19.4	43,980.8	770.0		
	Run#2	600	11/6/2001 10:28	<LOD	19.4	44,288.0	780.0		
	Run#3	600	11/6/2001 10:31	<LOD	19.1	45,593.6	800.0		
	Average	600		<19.3	19.3	44,620.8	783.3	NA	NA
SS-51	Run#1	600	11/6/2001 16:40	756.8	60.5	65,996.8	1,800.0		
	Run#2	600	11/6/2001 16:41	768.4	60.1	65,280.0	1,800.0		
	Run#3	600	11/6/2001 16:42	810.4	62.6	66,867.2	1,899.2		
	Average	600		778.5	61.1	66,048.0	1,833.1	NA	NA
	Lab Results	600		824.0	NC	NA	NC	NA	NA
SS-51 (1-2')	Run#1	600	11/13/2001 15:21	289.6	38.3	55,859.2	1,500.0		
	Run#2	600	11/13/2001 15:22	338.2	39.9	56,064.0	1,500.0		
	Run#3	600	11/13/2001 15:24	301.2	38.9	55,193.6	1,500.0		
	Average	600		309.7	39.0	55,705.6	1,500.0	NA	NA
	Lab Results	600		294.0	NC	NA	NC	NA	54,600
SS-51 (8-9')	Run#1	600	11/14/2001 7:47	<LOD	38.0	29,184.0	1,000.0		
	Run#2	600	11/14/2001 7:48	40.4	26.2	28,876.8	1,000.0		
	Run#3	600	11/14/2001 7:50	<LOD	37.2	30,284.8	1,000.0		
	Average	600		38.5	33.8	29,448.5	1,000.0	NA	NA
SS-51 (9-10')	Run#1	600	11/14/2001 7:51	44.8	25.9	29,388.8	1,000.0		
	Run#2	600	11/14/2001 7:52	73.6	27.1	29,491.2	1,000.0		
	Run#3	600	11/14/2001 7:54	39.2	25.5	29,593.6	1,000.0		
	Average	600		52.5	26.2	29,491.2	1,000.0	NA	NA
SS-52 Aliquot 1	Run#1	600	11/6/2001 13:10	947.2	29.2	4,067.2	190.0		
	Run#2	600	11/6/2001 13:13	949.6	29.4	4,147.2	190.0		
	Run#3	600	11/6/2001 13:17	980.8	29.7	4,249.6	190.0		
	Average	600		959.2	29.4	4,154.7	190.0	NA	NA
SS-52 Aliquot 2	Run#1	600	11/6/2001 13:31	2,089.6	100.0	551,731.2	9,600.0		
	Run#2	600	11/6/2001 13:35	2,019.2	88.8	546,816.0	8,294.4		
	Run#3	600	11/6/2001 13:39	2,160.0	100.0	546,816.0	9,395.2		
	Average	600		2,089.6	96.3	548,454.4	9,096.5	NA	NA
SS-52 Aliquot 3	Run#1	600	11/6/2001 13:43	1,640.0	56.8	130,969.6	1,899.2		
	Run#2	600	11/6/2001 13:47	1,620.0	56.3	129,945.6	1,899.2		
	Run#3	600	11/6/2001 13:50	1,680.0	56.8	129,945.6	1,899.2		
	Average	600		1,646.7	56.6	130,286.9	1,899.2	NA	NA
	Lab Results	600		1450	NC	65,900.0	NC	NA	NA
SS-52 (2-3')	Run#1	600	11/13/2001 15:08	2,268.8	120.0	189,952.0	4,598.4		
	Run#2	600	11/13/2001 15:09	2,160.0	120.0	185,958.4	4,400.0		
	Run#3	600	11/13/2001 15:10	2,089.6	110.0	184,934.4	4,400.0		
	Average	600		2,172.8	116.7	186,948.3	4,466.1	NA	NA
	Lab Results	600		1,700.0	NC	NA	NC	NA	49,800
SS-52 (2-3')*	Run#1	600	11/14/2001 10:17	2,049.6	120.0	184,934.4	4,598.4		
	Run#2	600	11/14/2001 10:19	2,179.2	120.0	188,928.0	4,697.6		
	Run#3	600	11/14/2001 10:20	2,120.0	120.0	183,910.4	4,598.4		
	Average	600		2,116.3	120.0	185,924.3	4,631.5	NA	NA
SS-52 (10-11')	Run#1	600	11/13/2001 15:16	277.0	38.0	43,084.8	1,300.0		
	Run#2	600	11/13/2001 15:18	251.4	36.6	42,393.6	1,300.0		
	Run#3	600	11/13/2001 15:20	227.0	36.1	43,596.8	1,300.0		
	Average	600		251.8	36.9	43,025.1	1,300.0	NA	NA
	Lab Results	600		204.0	NC	NA	NC	NA	22,100
SS-53	Run#1	600	11/6/2001 12:37	2,868.8	85.0	239,820.8	3,398.4		
	Run#2	600	11/6/2001 12:41	2,868.8	84.8	235,929.6	3,398.4		
	Run#3	600	11/6/2001 12:44	2,889.6	86.0	242,892.8	3,497.6		
	Average	600		2,875.7	85.3	239,547.7	3,431.5	NA	NA
	Lab Results	600		2400	NC	94500	NC	NA	NA
SS-53 (3-4')	Run#1	600	11/13/2001 12:45	1,549.6	93.6	134,963.2	3,299.2		
	Run#2	600	11/13/2001 12:46	1,629.6	96.5	137,932.8	3,398.4		
	Run#3	600	11/13/2001 12:48	1,540.0	94.3	136,908.8	3,398.4		
	Average	600		1,573.1	94.8	136,601.6	3,365.3	NA	NA
	Lab Results	600		1,550.0	NC	NA	NC	0.003	54,200
SS-54	Run#1	600	11/6/2001 16:36	2,680.0	150.0	209,920.0	5,497.6		
	Run#2	600	11/6/2001 16:37	2,788.8	150.0	207,974.4	5,398.4		
	Run#3	600	11/6/2001 16:38	2,769.6	150.0	207,974.4	5,398.4		
	Average	600		2,746.1	150.0	208,622.9	5,431.5	NA	NA
	Lab Results	600		3,000.0	NC	NA	NC	NA	NA
SS-54 (3-4')	Run#1	600	11/13/2001 12:49	1,969.6	110.0	156,979.2	3,897.6		
	Run#2	600	11/13/2001 12:51	2,040.0	110.0	161,996.8	4,000.0		
	Run#3	600	11/13/2001 12:52	1,960.0	110.0	160,972.8	4,000.0		
	Average	600		1,989.9	110.0	159,982.9	3,965.9	NA	NA
	Lab Results	600		1,990.0	NC	NA	NC	0.005	92,400

Multiple XRF Testing Results
L.E. Carpenter - Wharton, NJ
(units = mg/kg)

Sample Location		Non-Residential Cleanup Goal for Lead (ppm)	Date/Time	Chemical Analysis					
				Lead	Lead Error	Iron	Iron Error	SPLP Lead (mg/L)	Total Organic Carbon
SS-54 (10-11')	Run#1	600	11/13/2001 12:53	<LOD	36.3	34,176.0	1,100.0		
	Run#2	600	11/13/2001 12:55	<LOD	35.6	33,177.6	1,100.0		
	Run#3	600	11/13/2001 12:56	<LOD	37.7	34,278.4	1,100.0		
	Average	600		<36.5	36.5	33,877.3	1,100.0	NA	NA
SS-55	Run#1	600	11/6/2001 12:02	137.7	19.1	50,380.8	849.6		
	Run#2	600	11/6/2001 12:05	155.9	19.7	50,176.0	849.6		
	Run#3	600	11/6/2001 12:09	148.3	19.3	50,483.2	849.6		
	Average	600		147.3	19.4	50,346.7	849.6	NA	NA
SS-55 (3-4')	Run#1	600	11/13/2001 15:58	31.4	20.5	20,198.4	740.0		
	Run#2	600	11/13/2001 16:00	<LOD	29.4	20,800.0	750.0		
	Run#3	600	11/13/2001 16:01	<LOD	29.9	20,390.4	750.0		
	Average	600		30.1	26.6	20,462.9	746.7	NA	NA
SS-55 (10-11')	Run#1	600	11/14/2001 8:08	<LOD	40.4	38,297.6	1,200.0		
	Run#2	600	11/14/2001 8:09	<LOD	39.5	37,580.8	1,200.0		
	Run#3	600	11/14/2001 8:11	<LOD	38.7	36,684.8	1,200.0		
	Average	600		<39.5	39.5	37,521.1	1,200.0	NA	NA
SS-56	Run#1	600	11/6/2001 12:13	45.9	13.5	23,296.0	490.0		
	Run#2	600	11/6/2001 12:17	43.2	13.6	22,899.2	490.0		
	Run#3	600	11/6/2001 12:21	36.4	13.4	23,296.0	500.0		
	Average	600		41.8	13.5	23,163.7	493.3	NA	NA
SS-57	Run#1	600	11/7/2001 6:17	<LOD	31.8	16,396.8	750.0		
	Run#2	600	11/7/2001 6:19	<LOD	35.1	16,588.8	750.0		
	Run#3	600	11/7/2001 6:20	<LOD	35.0	16,588.8	760.0		
	Average	600		<34.0	34.0	16,524.8	753.3	NA	NA
SS-58	Run#1	600	11/6/2001 16:49	<LOD	32.4	18,188.8	780.0		
	Run#2	600	11/6/2001 16:50	<LOD	31.5	18,496.0	790.0		
	Run#3	600	11/6/2001 16:51	<LOD	33.0	17,996.8	780.0		
	Average	600		<32.3	32.3	18,227.2	783.3	NA	NA
	Lab Results	600		9.4	NC	NA	NC	NA	NA
SS-59	Run#1	600	11/6/2001 16:53	<LOD	34.5	18,790.4	780.0		
	Run#2	600	11/6/2001 16:54	<LOD	32.6	18,598.4	780.0		
	Run#3	600	11/6/2001 16:55	<LOD	32.4	18,291.2	770.0		
	Average	600		<33.2	33.2	18,560.0	776.7	NA	NA
	Lab Results	600		16.2	NC	NA	NC	NA	NA
SS-60	Run#1	600	11/6/2001 16:28	47.6	22.7	18,995.2	750.0		
	Run#2	600	11/6/2001 16:29	<LOD	32.4	19,097.6	760.0		
	Run#3	600	11/6/2001 16:30	61.6	23.9	18,892.8	750.0		
	Average	600		47.2	26.3	18,995.2	753.3	NA	NA
SS-60 (4-5')	Run#1	600	11/14/2001 14:38	<LOD	28.5	15,296.0	640.0		
	Run#2	600	11/14/2001 14:40	<LOD	29.0	15,488.0	630.0		
	Run#3	600	11/14/2001 14:41	32.3	20.5	15,488.0	630.0		
	Average	600		29.9	26.0	15,424.0	633.3	NA	NA
SS-61	Run#1	600	11/6/2001 16:32	151.4	28.8	25,600.0	900.0		
	Run#2	600	11/6/2001 16:33	170.6	29.5	26,496.0	920.0		
	Run#3	600	11/6/2001 16:34	152.2	28.8	26,188.8	900.0		
	Average	600		158.1	29.0	26,094.9	906.7	NA	NA
SS-62 (0.5-1')	Run#1	600	11/15/2001 11:15	117.0	27.6	29,593.6	960.0		
	Run#2	600	11/15/2001 11:16	141.9	28.9	29,696.0	960.0		
	Run#3	600	11/15/2001 11:17	131.4	28.2	29,593.6	960.0		
	Average	600		130.1	28.2	29,627.7	960.0	NA	NA
SS-62 (3-4')	Run#1	600	11/15/2001 11:19	978.4	82.7	174,899.2	4,297.6		
	Run#2	600	11/15/2001 11:20	956.0	81.1	173,977.6	4,198.4		
	Run#3	600	11/15/2001 11:21	949.6	81.2	175,923.2	4,198.4		
	Average	600		961.3	81.7	174,933.3	4,231.5	NA	NA
	Lab Results	600		667.0	NC	NA	NC	NA	49,200
SS-62 (7-8')	Run#1	600	11/15/2001 11:23	146.2	31.1	37,478.4	1,200.0		
	Run#2	600	11/15/2001 11:24	147.6	30.9	37,299.2	1,200.0		
	Run#3	600	11/15/2001 11:25	129.2	29.9	36,787.2	1,100.0		
	Average	600		141.0	30.6	37,188.3	1,166.7	NA	NA
SS-63 (0.5-1.5')	Run#1	600	11/15/2001 11:27	424.4	46.0	67,891.2	1,800.0		
	Run#2	600	11/15/2001 11:28	404.8	41.4	68,198.4	1,600.0		
	Run#3	600	11/15/2001 11:30	388.4	44.8	69,273.6	1,800.0		
	Average	600		405.9	44.1	68,454.4	1,733.3	NA	NA
SS-63 (2-3')	Run#1	600	11/15/2001 11:31	<LOD	31.1	21,888.0	849.6		
	Run#2	600	11/15/2001 11:33	<LOD	29.4	21,696.0	849.6		
	Run#3	600	11/15/2001 11:34	<LOD	29.4	20,889.6	810.0		
	Average	600		<30	30.0	21,491.2	836.4	NA	NA
SS-63 (5-6')	Run#1	600	11/15/2001 11:35	<LOD	27.6	19,289.6	720.0		
	Run#2	600	11/15/2001 11:37	<LOD	29.0	19,993.6	730.0		
	Run#3	600	11/15/2001 11:38	<LOD	28.2	18,995.2	710.0		
	Average	600		<28.3	28.3	19,426.1	720.0	NA	NA
GPC-15 (0.5-1')	Run#1	600	11/13/2001 12:03	6,726.4	170.0	37,094.4	1,200.0		
	Run#2	600	11/13/2001 12:04	6,636.8	170.0	36,787.2	1,200.0		
	Run#3	600	11/13/2001 12:06	7,014.4	180.0	38,886.4	1,200.0		
	Average	600		6,792.5	173.3	37,589.3	1,200.0	NA	NA
	Lab Results	600		4,430.0	NC	NA	NC	0.01	375,000

Multiple XRF Testing Results
L.E. Carpenter - Wharton, NJ
(units = mg/kg)

Sample Location		Non-Residential Cleanup Goal for Lead (ppm)	Date/Time	Chemical Analysis					
				Lead	Lead Error	Iron	Iron Error	SPLP Lead (mg/L)	Total Organic Carbon
GPC-15 (2-3')	Run#1	600	11/13/2001 12:08	<LOD	29.4	15,795.2	690.0		
	Run#2	600	11/13/2001 12:09	<LOD	29.6	15,398.4	670.0		
	Run#3	600	11/13/2001 12:10	<LOD	29.3	15,488.0	680.0		
	Average	600		**<29.4**	**29.4**	**15,560.5**	**680.0**	**NA**	**NA**
GPC-15 (8-9')	Run#1	600	11/13/2001 12:12	605.2	46.0	27,776.0	949.6		
	Run#2	600	11/13/2001 12:13	589.6	44.9	27,084.8	929.6		
	Run#3	600	11/13/2001 12:14	606.0	45.8	27,392.0	940.0		
	Average	600		**600.3**	**45.6**	**27,417.6**	**939.7**	**NA**	**NA**
	Lab Results	600		**stdev(**	**NC**	**NA**	**NC**	**0.01**	**44,600**
Ore Sample 1	Run#1	600	11/14/2001 11:00	<LOD	180.0	1,269,760.0	48,000.0		
	Run#2	600	11/14/2001 12:46	<LOD	180.0	1,309,900.8	49,996.8		
	Run#3	600	11/14/2001 12:47	<LOD	180.0	1,269,760.0	48,000.0		
	Average	600		**<180**	**180.0**	**1,283,140.3**	**48,665.6**	**NA**	**NA**
Ore Sample 2		600	11/15/2001 11:52	**<LOD**	**180.0**	**1,269,760.0**	**46,976.0**	**NA**	**NA**
Iron Slag Sample	Run#1	600	11/14/2001 15:11	<LOD	195.0	1,039,564.8	33,996.8		
	Run#2	600	11/14/2001 15:13	<LOD	195.0	1,039,564.8	33,996.8		
	Run#3	600	11/14/2001 15:15	<LOD	180.0	1,019,904.0	32,998.4		
	Average	600		**<190**	**190.0**	**1,033,011.2**	**33,664.0**	**NA**	**NA**

LEGEND
mg/L = Milligrams per liter
mg/kg = Milligrams per kilogram
<LOD = Less than the limit of detection
NC = Not calculated
NA = Not analyzed
* = SS-52 (2-3') was run twice.
** = Window of XRF was contaminated. Sample was rerun after cleaning.

Appendix C
Field Data Sheets for Groundwater Sampling

RMT INC.

Page ___ of ___

GENERAL NOTES - EQUIPMENT SUMMARY

WATER LEVEL MEASUREMENTS WERE COLLECTED WITH:

Solinst Model 122 Oil Water/Interface Probe
Name and Model Number of Instrument

Serial Number (if applicable)

DEPTH TO BOTTOM OF WELL MEASUREMENTS WERE COLLECTED WITH:

Historical Well Data
Name and Model Number

Serial Number (if applicable)

PURGING METHOD:

Geopump 2 Peristaltic Pump
Name and Model Number of Pump or Type of Bailer

RMT - 4114
Serial Number (if applicable)

PURGE WATER DISPOSAL METHOD:

55-gallon drums

SAMPLING METHOD:

Same as Purge pump
Name and Model Number of Pump or Type of Bailer

Serial Number (if applicable)

pH/CONDUCTIVITY: *See meter calibration logs

FILTRATION METHOD:

Horiba U-22 Water Quality Meter
Name and Model Number of Device

Serial Number (if applicable)

Geotech 0.45 micron high capacity Disp. Filter
Filter Type

Teflon
Tubing Type

DECONTAMINATION AND FIELD BLANK WATER SOURCE:

Site Water Taps
Potable Water Source (if applicable)

Purchase
DI Water Source

Brendan P. McL
Signed

11/9/01
Date

QC'd By

11/10/01
Date

REV 01/14/94

RMT INC.

GENERAL NOTES

PROJECT NAME: LEE CARPENTER LEAD INVEST

DATE: NOVEMBER 9, 2011

PROJECT NUMBER: 3868.26

AUTHOR: B. McLenna

TIME ARRIVED ON-SITE: 0650

TIME LEFT SITE: 2010

WEATHER: SUNNY HIGH OF 52°F, WINDY

WORK/SAMPLING PERFORMED: GROUNDWATER SAMPLING OF 8 WELLS

PROBLEMS ENCOUNTERED/CORRECTIVE ACTIONS TAKEN:

NONE

COMMUNICATIONS:

Name/Representing:

Subject/Comments:

QC'd By:

RMT INC.

Page ___ of ___

GENERAL NOTES

PROJECT NAME: LEC LEAD INVEST

DATE: 11/10/01

PROJECT NUMBER: 3868.26

AUTHOR: B. McLennan

TIME ARRIVED ON-SITE: 0800

TIME LEFT SITE: 1700

WEATHER: OVERCAST + COOL HIGH OF 52°F, CHANGING TO SUNNY by MID-DAY

WORK/SAMPLING PERFORMED:

9 ~~Samples~~ wells sampled, ~~18 Samples~~ BPM. 17 Samples collected.

MW-11S had duplicate sample collected for filtered and unfiltered

MW-11S had a product sample collected to be analyzed for lead

no water sample collected from that well

PROBLEMS ENCOUNTERED/CORRECTIVE ACTIONS TAKEN:

WP-B1 was pumped dry and when allowed to recharge only product returned to well. No sample collected.

COMMUNICATIONS:

Name/Representing: NONE

Subject/Comments:

QC'd By: [signature]

REV 01/14/94

F-181

RMT INC.

GENERAL NOTES

PROJECT NAME: LEC Lead Investigation

DATE: November 11, 2001

PROJECT NUMBER: 3868.26

AUTHOR: B Mehrens

TIME ARRIVED ON-SITE: 0815

TIME LEFT SITE: 1530

WEATHER: Sunny high of 55°F.

WORK/SAMPLING PERFORMED: 7 wells sampled, 14 Samples collected

PROBLEMS ENCOUNTERED/CORRECTIVE ACTIONS TAKEN:

None

COMMUNICATIONS:

Name/Representing: None

Subject/Comments:

QC'd By:

RMT INC.

WATER LEVEL DATA

PROJECT NAME: LEC LEAD INVEST DATE: 11/9/01

PROJECT NUMBER: 3868.26 SAMPLER: McLennan/Swanson

	Well Location	Time	Reference Elev (MSL)	Depth to Water (feet)*	Depth to Bottom (feet)	Water Elev (MSL)	
- 2" well	MW-25R	650		4.03			No cap unlabelled 2"
- 2" well	MW-14I	655		4.93			No cap 1"
- 4" well	MW-14S	656		5.20			No cap 4"
- 2" well	MW-22R	658		4.99			Mislabelled as 24
- 2" well	WP-B7	707		5.58			No [illegible] casing
2" well	MW-3	710		8.74P, 11.61W	27.5		[illegible] casing stops 1FT [illegible]
- 2"	MW-2R	757		8.72			
- 2"	WP-B5	818		7.56			No other casing
- 4"	MW-18S	808		~~obs @~~ BPM 7.18			5"
- 2"	MW-18I	810		7.09			4" No cap
8"	RW-3	820		8.46			3"
2"	MW-6(R)	824		8.57P, 8.72W			5"
- 2"	MW-11I(R)	829		9.77			6"
- 2"	MW-11S	830		10.61P, 13.84W	14.40(TD)		5"
- 2"	WP-B3	832		9.51P, 9.54W			No casing
- 2"	WP-B1	841		9.98			No casing
0 2"	WP-B2	838		8.69 SHEEN			5"
- 2"	MW-1	844		8.90			Surface stop [illegible]
Petro trap - 2"	WP-A8	857		13.81P, 16.32W	16.5 (TD) Soft		No casing
MP not level - 2"	WP-A7	904	obs @ 3.95	11.31P, No water	13.61 (TD)		No case
- 2"	WP-A9	913		15.59P, NO WATER	17.91 (TD)		No case
MP not level - 2"	WP-A6	918		13.55P, 14.96W	15.03 (TD)		

* All Water Levels Must Include Reference Point and Tape Correction factor, i.e., 1.1 + 0.00 T/PVC.

Brendan P. McLennan 11/9/01 [signature] 11/10/01

Signed Date QC'd By Date

REV 09/98

F-183

RMT INC.

WATER LEVEL DATA

PROJECT NAME: LEC LEAD INVEST

DATE: 11/9/01

PROJECT NUMBER: 3868.26

SAMPLER: McLennan/Swanson

	Well Location	Time	Reference Elev (MSL)	Depth to Water (feet)*	Depth to Bottom (feet)	Water Elev (MSL)	
– 2"	WP-A5	936		14.21			No Case
– 4"	MW-175	939		10.85			2"
– 2"	MW-A2	942	Case Separation	7.1 15.44P, 16.28W	16.55		6"
– 2"	MW-A3	949		11.73			4"
– 4"	MW-155	955		12.96			4"
– 4"	MW-165	1003		10.29			4"
–	MW-9-3	1017		12.55			4" J. plug @ 7 ft

* All Water Levels Must Include Reference Point and Tape Correction factor, i.e., 1.1 + 0.00 T/PVC.

Brenda P. McLennan 11/9/01

Signed Date

11/10/01

QC'd By Date

RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC LEAD INVEST
WELL NUMBER: MW-19-3
PROJECT NUMBER: 3868.26
WELL DIAMETER: 4"
DATE: 11/9/01
SAMPLER: McLennan / SWANSON
Type Of Pump Used: GEO PUMP 2
Pumping Rate (gallon/minute): "
Water level before purging (nearest 0.01 ft. below reference point) 12.55 + btoc T/ (S.S.)
Depth to bottom of well (obtained from well logs) 16.00 + 0.00 T/
Calculated volume of water in casing 2.25 gal
Weather conditions Sunny, 52°F, windy

Time	Purge Rate (gal/min)	pH (Units)	Turbidity (NTU)	Conductivity Units: mS/CM Uncorrected	Conductivity Corrected	Temperature (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)	ORP
1100		5.76	~~3960~~ >999	2.22		15.1	12.60	.1	198 mV
1110		6.64	>999	2.20		14.9	12.64	.4	153 mV
1120		6.74	7999	2.22		14.4	12.61	.6	147 mV
1130		6.77	820	2.25		14.9	12.65	.8	132 mV
1140		6.79	472	2.32		14.5	12.63	1.0	91 mV
1150		6.79	202	2.31		14.7	12.63	1.2	80 mV
1200		6.80	156.0	2.30		14.9	12.64	1.4	71 mV
1210		6.79	144	2.27		14.7	12.63	1.6	65 mV
1220		6.80	142	2.26		14.4	12.63	1.8	62 mV
				STABLE					
			DO = 1.83 g/L						

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Signed — Date 11/9/01 — QC'd By — Date 11/10/01

WATER SAMPLE LOG

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444 FAX: (608) 831-3334

Sheet _____ of _____

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
LEC LEAD INVEST	By: BPM	Date: 11/9/01	By:	Date:	3868.26

SAMPLE NO.: MW-19-3 WELL DIAMETER: ☐ 2" ☒ 4" ☐ Other _____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other _____

PURGING

TIME: 120 min DEPTH TO WATER: 12.55 + T/

WELL VOLUME: 2.25 gallons DEPTH TO BOTTOM: + T/

TOTAL VOLUME REMOVED: 1.8 gallons METHOD: ☐ Bailer, _____ ☒ Pump, Peristaltic

ODOR: ☒ None ☐ Other _____ COLOR: Brown TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☒ Very

DISPOSAL METHOD: ☐ Ground ☐ POTW ☒ Drum ☐ Other _____

SAMPLE

TIME: 1220 DATE: 11/9/01

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☐ None ☐ Slight ☒ Moderate ☐ Very

pH: 6.80 CONDUCTIVITY: 2.26 mS/cm umhos/cm TEMPERATURE: 14.4 °C

COMMENTS: _____ CORRECTED CONDUCTIVITY: SC ÷ {1 + [0.0191 x (T - 25)]}: _____

FILTRATE (0.45 µm)

☐ NOT APPLICABLE

ODOR: ☒ None ☐ Other _____ COLOR: Clear COMMENTS: _____

BOTTLES FILLED

PRESERVATIVE CODES: A - None B - HNO3 C - H_2SO4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
1	1 L	HDPE	B	Y (N)					Y N
1	1 L	HDPE	B	(Y) N					Y N
				Y N					Y N
				Y N					Y N

CHAIN-OF-CUSTODY NUMBER: _____ DATE SHIPPED: 11/13/01 METHOD: Courier

AIRBILL NUMBER: _____ SIGNED: Brenda P. Mitchell DATE: 11/9/01

F-186 (REV 1/9/97)

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RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC LEAD INVEST WELL NUMBER: WP-A3

PROJECT NUMBER: 3868.26 WELL DIAMETER: 2"

DATE: 11/9/01 SAMPLER: McLemore/Swanson

Type Of Pump Used: Geopump 2

Pumping Rate (gallon/minute): .12 gpm

Water level before purging (nearest 0.01 ft. below reference point) 11.73 + T/

Depth to bottom of well (obtained from well logs) + T/ UNKNOWN

Calculated volume of water in casing UNKNOWN

Weather conditions Sunny 50°F, windy

Time	Purge Rate (gal/min)	pH (Units)	Turbidity (NTU)	Conductivity Units: mS/cm Uncorrected	Conductivity Corrected	Temperature (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)	ORP
1345		6.88	>999	1.03		14.9	11.74	0.625	226 mV
1355		6.68	116	1.01		15.3	11.76	1.25	191 mV
1405		6.66	39.8	0.99		15.3	11.72	1.875	172 mV
1415		6.64	22.7	0.99		15.4	11.79	2.5	158 mV
1425		6.65	18.4	0.99		15.6	11.77	3.125	113 mV
1430		6.63	18.4	0.99		15.4	11.78	3.437	123 mV
1435		6.67	19.5	0.99		15.5	11.79		120 mV
				STABLE					
			D.	0.57 g/L					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Brendan P. McLemore — Signed — 11/9/01 Date

QC'd By — 11/10/01 Date

RMT INC.

WATER SAMPLE LOG

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444 FAX: (608) 831-3334

Sheet _____ of _____

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
LEC LEAD INVEST	By: BJM	Date: 11/9/01	By:	Date:	3868.26

SAMPLE NO.: WP-A3 WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other _____

WELL MATERIAL: ☒ PVC ☐ SS ☐ Iron ☐ Other _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other _____

PURGING

TIME: 50 min DEPTH TO WATER: 11.73 + T/

WELL VOLUME: UNK gallons DEPTH TO BOTTOM: _____ + T/

TOTAL VOLUME REMOVED: 3.5 gallons METHOD: ☐ Bailer, _____ ☒ Pump, Peristaltic

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☐ None ☐ Moderate ☒ Slight ☐ Very

DISPOSAL METHOD: ☐ Ground ☐ POTW ☒ Drum ☐ Other _____

SAMPLE

TIME: 1435 DATE: 11/9/01

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☐ None ☐ Moderate ☒ Slight ☐ Very

pH: 6.67 CONDUCTIVITY: 0.99 mS/cm umhos/cm TEMPERATURE: 15.5 °C

COMMENTS: _____ CORRECTED CONDUCTIVITY: SC ÷ {1 + [0.0191 x (T - 25)]}: _____

FILTRATE (0.45 µm)

☐ NOT APPLICABLE

ODOR: ☒ None ☐ Other _____ COLOR: Clear COMMENTS: _____

BOTTLES FILLED

PRESERVATIVE CODES: A - None B - HNO3 C - H_2SO4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
1	1L	HDPE	B	Y N					Y N
1	1L	HDPE	B	Y N					Y N
				Y N					Y N
				Y N					Y N

CHAIN-OF-CUSTODY NUMBER: _____ DATE SHIPPED: 11/13/01 METHOD: Courier

AIRBILL NUMBER: _____ SIGNED: [signature] DATE: 11/9/01

F-186 (REV 1/9/97)

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RMT

LOW-FLOW GROUNDWATER SAMPLING
STABILIZATION LOG

PROJECT NAME: Lee Lead Forest WELL NUMBER: MW-15S

PROJECT NUMBER: 3868.26 WELL DIAMETER: 4"

DATE: 11/7/01 SAMPLER: B. McLennan / E. Swanson

Type Of Pump Used: Geopump 2

Pumping Rate (gallon/minute):

Water level before purging (nearest 0.01 ft. below reference point) 12.96 + T/

Depth to bottom of well (obtained from well logs) 25.94+ T/

Calculated volume of water in casing 8.47 gallons

Weather conditions Sunny 52°F windy

Time	Purge Rate (gal/min)	pH (Units)	Turbidity (NTU)	Conductivity Units: mS/cm Uncorrected	Corrected	Temperature (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)	ORP
1500		6.55	72.3	0.453		15.7	12.96		
1505		6.56	54.2	0.464		16.2	12.96		205 mV
1510		6.58	30.7	0.469		16.2	12.97		188 mV
1515		6.59	22.5	0.510		16.2	12.97		175 mV
1520		6.59	13.8	0.585		16.2	12.97		160 mV
1525		6.60	11.9	0.692		16.3	12.96		145
1530		6.61	18.1	0.730		16.3	12.97		124
1535		6.62	16.7	0.746		16.2	12.97		106
1540		6.63	18.1	0.751		16.2	12.97	4 gal	93
				STABLE					
			DO = 0.31 g/L						

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Signed: [signature] Date: 11/8/01 QC'd By: [signature] Date: 11/10/01

RMT INC.

WATER SAMPLE LOG

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444 FAX: (608) 831-3334

Sheet _____ of _____

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
LEC LEAD INVEST	By: BPM	Date: 11/9/01	By:	Date:	3868.26

SAMPLE NO.: MW-15S WELL DIAMETER: ☐ 2" ☒ 4" ☐ Other _____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other _____

PURGING

TIME: 40 min DEPTH TO WATER: 12.96 + T/

WELL VOLUME: 8.47 gallons DEPTH TO BOTTOM: _____ + T/

TOTAL VOLUME REMOVED: 48 gallons METHOD: ☐ Bailer, _____ ☒ Pump, Peristaltic

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very

DISPOSAL METHOD: ☐ Ground ☐ POTW ☒ Drum ☐ Other _____

SAMPLE

TIME: 1540 DATE: 11/9/01

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very

pH: 6.63 CONDUCTIVITY: 0.751 mS/cm umhos/cm TEMPERATURE: 16.2 °C

COMMENTS: _____ CORRECTED CONDUCTIVITY: SC ÷ {1 + [0.0191 x (T - 25)]}: _____

FILTRATE (0.45 µm)

☐ NOT APPLICABLE

ODOR: ☒ None ☐ Other _____ COLOR: clear COMMENTS: _____

BOTTLES FILLED

PRESERVATIVE CODES: A - None B - HNO3 C - H_2SO4 D - NaOH E - HCl F- _____

Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
1	1 L	HDPE	B	Y (N)					Y N
1	1 L	HDPE	B	(Y) N					Y N
				Y N					Y N
				Y N					Y N

CHAIN-OF-CUSTODY NUMBER: _____ DATE SHIPPED: 11/13/01 METHOD: Courier

AIRBILL NUMBER: _____ SIGNED: [signature] DATE: 11/9/01

F-186 (REV 1/9/97)

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RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC LEAD INVEST WELL NUMBER: MW-16S

PROJECT NUMBER: 8868.26 WELL DIAMETER: 4"

DATE: 11/9/01 SAMPLER: McLennan/Swanson

Type Of Pump Used: Geotool 2

Pumping Rate (gallon/minute):

Water level before purging (nearest 0.01 ft. below reference point) 10.29 + T/

Depth to bottom of well (obtained from well logs) 23.90 + T/

Calculated volume of water in casing 8.88 gallons

Weather conditions Sunny 52°F WINDY

Time	Purge Rate (gal/min)	pH (Units)	Turbidity (NTU)	Conductivity Units: mS/cm Uncorrected	Conductivity Corrected	Temperature (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)	ORP
1605		6.95	24.3	0.458		14.0	10.42		224 mV
1610		6.86	25.1	0.463		14.6	10.61		208
1615		6.86	26.8	0.460		14.6	10.77	1 gal	196
			STABLE						
				DO = 2.72 g/L					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Brenda P. McLennan 11/9/01 QC'd By 11/10/01

Signed Date Date

RMT INC.

WATER SAMPLE LOG

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444 FAX: (608) 831-3334

Sheet ____ of ____

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
LEC LEAD INVEST	By: BPM	Date: 11/9/01	By:	Date:	5868.26

SAMPLE NO.: MW-16S WELL DIAMETER: ☐ 2" ☒ 4" ☐ Other ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other ____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other ____

PURGING

TIME: 15 min DEPTH TO WATER: 10.29 + T/

WELL VOLUME: 8.88 gallons DEPTH TO BOTTOM: + T/

TOTAL VOLUME REMOVED: 1 gallons METHOD: ☐ Bailer, ____ ☒ Pump, Peristaltic

ODOR: ☒ None ☐ Other ____ COLOR: Clear TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very

DISPOSAL METHOD: ☐ Ground ☐ POTW ☒ Drum ☐ Other ____

SAMPLE

TIME: 1615 DATE: 11/9/01

ODOR: ☒ None ☐ Other ____ COLOR: Clear TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very

pH: 6.86 CONDUCTIVITY: 0.460 mS/cm umhos/cm TEMPERATURE: 14.6 °C

COMMENTS: ____ CORRECTED CONDUCTIVITY: SC ÷ {1 + [0.0191 x (T - 25)]}: ____

FILTRATE (0.45 µm)

☐ NOT APPLICABLE

ODOR: ☒ None ☐ Other ____ COLOR: Clear COMMENTS: ____

BOTTLES FILLED

PRESERVATIVE CODES: A - None B - HNO3 C - H_2SO4 D - NaOH E - HCL F- ____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
1	1 L	HDPE	B	Y N					Y N
1	1 L	HDPE	B	Y N					Y N
				Y N					Y N
				Y N					Y N

CHAIN-OF-CUSTODY NUMBER: ____ DATE SHIPPED: 11/3/01 METHOD: Courier

AIRBILL NUMBER: ____ SIGNED: [signature] DATE: 11/9/01

F-186 (REV 1/9/97)

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RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC LEAD INVEST
WELL NUMBER: MW-17S
PROJECT NUMBER: 3868.26
WELL DIAMETER: 4"
DATE: 11/9/01
SAMPLER: McLennan/Swanson
Type Of Pump Used: GEOPUMP 2
Pumping Rate (gallon/minute):
Water level before purging (nearest 0.01 ft. below reference point) 10.85 + T/
Depth to bottom of well (obtained from well logs) 15.04 + T/
Calculated volume of water in casing 2.74 gallons
Weather conditions Sunny 52°F Windy

Time	Purge Rate (gal/min)	pH (Units)	Turbidity (NTU)	Conductivity Units: mS/cm Uncorrected	Corrected	Temperature (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)	ORP
1635		7.14	118.0	0.420		12.5	10.85		245
1640		6.96	53.9	0.418		13.1	10.86		215
1645		6.91	38.4	0.418		13.1	10.95		196
1650		6.90	40.0	0.418		13.1	10.86		190
1655		6.90	38.0	0.418		13.2	10.86	2 gal	189
				STABLE					
				DO=8.19 g/L					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Signed: [signature] Date: 11/9/01
QC'd By: [signature] Date: 11/10/01

RMT INC

WATER SAMPLE LOG

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444 FAX: (608) 831-3334

Sheet _____ of _____

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
Pb LEC LEAD INVEST	By: BPM	Date: 11/9/01	By:	Date:	3868.26

SAMPLE NO.: MW-17S WELL DIAMETER: ☐ 2" ☒ 4" ☐ Other _____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other _____

PURGING

TIME: 20 min DEPTH TO WATER: 10.85 + T/

WELL VOLUME: 2.74 gallons DEPTH TO BOTTOM: + T/

TOTAL VOLUME REMOVED: 2 gallons METHOD: ☐ Bailer, _____ ☒ Pump, Peristaltic

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☐ None ☐ Slight ☒ Moderate ☐ Very

DISPOSAL METHOD: ☐ Ground ☐ POTW ☒ Drum ☐ Other _____

SAMPLE

TIME: 1655 DATE: 11/9/01

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☐ None ☐ Slight ☒ Moderate ☐ Very

pH: 6.90 CONDUCTIVITY: 0.418 mS/cm µmhos/cm TEMPERATURE: 13.2 °C

COMMENTS: _____ CORRECTED CONDUCTIVITY: SC ÷ {1 + [0.0191 x (T - 25)]}: _____

FILTRATE (0.45 µm)

☐ NOT APPLICABLE

ODOR: ☒ None ☐ Other _____ COLOR: Clear COMMENTS: _____

BOTTLES FILLED

PRESERVATIVE CODES: A - None B - HNO3 C - H_2SO_4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
1	1 L	HDPE	B	Y N					Y N
1	1 L	HDPE	B	Y N					Y N
				Y N					Y N
				Y N					Y N

CHAIN-OF-CUSTODY NUMBER: _____ DATE SHIPPED: 11/13/01 METHOD: Courier

AIRBILL NUMBER: _____ SIGNED: [signature] DATE: 11/9/01

F-186 (REV 1/9/97)

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RMT

LOW-FLOW GROUNDWATER SAMPLING
STABILIZATION LOG

PROJECT NAME: LEC LEAD INVEST WELL NUMBER: WP-5A

PROJECT NUMBER: 3868 26 WELL DIAMETER: 2"

DATE: 11/9/01 SAMPLER: McLennan/Swanson

Type Of Pump Used: GEOPUMP 2

Pumping Rate (gallon/minute):

Water level before purging (nearest 0.01 ft. below reference point) 14.21 + T/

Depth to bottom of well (obtained from well logs) + T/ UNKNOWN

Calculated volume of water in casing UNKNOWN

Weather conditions Sunny 52°F Light wind

Time	Purge Rate (gal/min)	pH (Units)	Turbidity (NTU)	Conductivity Units: mS/cm Uncorrected	Corrected	Temperature (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)	ORP
1710		6.47	168.0	.754		14.7	14.82		-60
1715		6.61	40.2	.835		16.1	15.03		-120
1720		6.67	61.0	.866		15.4	15.03		-125
1725		6.66	56.8	.873		14.9	15.04		-118
1730		6.66	104	.875		14.7	15.04		-113
1735		6.65	101	.874		14.6	15.04		-109
1740		6.66	108	.870		14.6	15.04	0.75 gal	-105
				STABLE					
				DO = 2.01 g/L					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Brendan P. McL[illegible] 11/9/01 [signature] 11/10/01

Signed Date QC'd By Date

WATER SAMPLE LOG

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444 FAX: (608) 831-3334

Sheet _____ of _____

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
LEC LEAD INVEST	By: BPM	Date: 11/9/01	By:	Date:	3868.26

SAMPLE NO.: WP-A5 WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other _____

WELL MATERIAL: ☒ PVC ☐ SS ☐ Iron ☐ Other _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other _____

PURGING

TIME: 30 min DEPTH TO WATER: 14.21 + T/

WELL VOLUME: unk gallons DEPTH TO BOTTOM: _____ + T/

TOTAL VOLUME REMOVED: 0.75 gallons METHOD: ☐ Bailer, _____ ☒ Pump, Peristaltic

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☐ None ☐ Slight ☒ Moderate ☐ Very

DISPOSAL METHOD: ☐ Ground ☐ POTW ☒ Drum ☐ Other _____

SAMPLE

TIME: 1740 DATE: 11/9/01

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☐ None ☐ Slight ☒ Moderate ☐ Very

pH: 6.66 CONDUCTIVITY: 0.870 mS/cm µmhos/cm TEMPERATURE: 14.6 °C

COMMENTS: _____ CORRECTED CONDUCTIVITY: SC ÷ {1 + [0.0191 x (T - 25)]}: _____

FILTRATE (0.45 µm)

☐ NOT APPLICABLE

ODOR: ☒ None ☐ Other _____ COLOR: Clear COMMENTS: _____

BOTTLES FILLED

PRESERVATIVE CODES: A - None B - HNO3 C - H_2SO_4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
1	1 L	HDPE	B	Y N					Y N
1	1 L	HDPE	B	Y N					Y N
				Y N					Y N
				Y N					Y N

CHAIN-OF-CUSTODY NUMBER: _____ DATE SHIPPED: 11/8/01 METHOD: Courier

AIRBILL NUMBER: _____ SIGNED: [signature] DATE: 11/8/01

F-186 (REV 1/9/97)

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RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC LEAD Survey
WELL NUMBER: WP-BS
PROJECT NUMBER: 3868.26
WELL DIAMETER: 2"
DATE: 11/9/01
SAMPLER: McLennan/Swanson
Type Of Pump Used: GEOPUMP 2
Pumping Rate (gallon/minute):
Water level before purging (nearest 0.01 ft. below reference point) 7.56+ T/
Depth to bottom of well (obtained from well logs) 11.00 + T/
Calculated volume of water in casing 0.56 gallons
Weather conditions Sunny 52°F windy

Time	Purge Rate (gal/min)	pH (Units)	Turbidity (NTU)	Conductivity Units: mS/cm Uncorrected	Conductivity Corrected	Temperature (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)	ORP
1820		6.43	29.6	0.921		15.5	8.41		-70
1825		6.48	26.2	0.850		16.5	8.75		-104
1830		6.47	22.2	0.816		16.5	8.82		-114
1835		6.47	25.8	0.810		16.6	8.91		-118
1840		6.47	29.7	0.814		16.6	8.93		-119
1845		6.47	27.7	0.816		16.6	8.93		-119
1850		6.47	29.9	0.817		16.7	8.92	3.5 gal	-120
				STABLE					
				DO = 0.08					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Brendan P. McLennan — Signed
11/9/01 — Date
QC'd By
11/10/01 — Date

RMT INC.

WATER SAMPLE LOG

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444 FAX: (608) 831-3334

Sheet ____ of ____

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
LEC LEAD INVEST	By: 11/9/01	Date: BPM	By:	Date:	5868.22

SAMPLE NO.: WP-B5 WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other ____

WELL MATERIAL: ☒ PVC ☒ SS (BPM) ☐ Iron ☐ Other ____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other ____

PURGING

TIME: 30 min DEPTH TO WATER: 7.56 + T/

WELL VOLUME: 0.56 gallons DEPTH TO BOTTOM: ____ + T/

TOTAL VOLUME REMOVED: 3.5 gallons METHOD: ☐ Bailer, ____ ☒ Pump, Peristaltic

ODOR: ☒ None ☐ Other ____ COLOR: Clear TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very

DISPOSAL METHOD: ☐ Ground ☐ POTW ☒ Drum ☐ Other ____

SAMPLE

TIME: 1850 DATE: 11/9/01

ODOR: ☒ None ☐ Other ____ COLOR: Clear TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very

pH: 6.47 CONDUCTIVITY: 0.817 mS/cm µmhos/cm TEMPERATURE: 16.7 °C

COMMENTS: ____ CORRECTED CONDUCTIVITY: SC ÷ {1 + [0.0191 x (T - 25)]}: ____

FILTRATE (0.45 µm)

☐ NOT APPLICABLE

ODOR: ☒ None ☐ Other ____ COLOR: Clear COMMENTS: ____

BOTTLES FILLED

PRESERVATIVE CODES: A - None B - HNO3 C - H_2SO4 D - NaOH E - HCL F- ____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
1	1L	HDPE	B	Y (N)					Y N
1	1L	HDPE	B	(Y) N					Y N
				Y N					Y N
				Y N					Y N

CHAIN-OF-CUSTODY NUMBER: ____ DATE SHIPPED: 11/13/01 METHOD: Courier

AIRBILL NUMBER: ____ SIGNED: [signature] DATE: 11/9/01

F-186 (REV 1/9/97)

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RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC LEAD SNUCST WELL NUMBER: RW-3

PROJECT NUMBER: 3868.26 WELL DIAMETER: 8"

DATE: 11/9/01 SAMPLER: McLennan/Swanson

Type Of Pump Used: Geopump

Pumping Rate (gallon/minute):

Water level before purging (nearest 0.01 ft. below reference point) 8.46 + T/

Depth to bottom of well (obtained from well logs) 27.00 + T/

Calculated volume of water in casing 51.02 gallons

Weather conditions Sunny 52°F windy

Time	Purge Rate (gal/min)	pH (Units)	Turbidity (NTU)	Conductivity Units: mS/cm Uncorrected	Conductivity Corrected	Temperature (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)	ORP
1910		6.47	43.0	0.550		13.9	8.47		-53
1915		6.48	26.1	0.561		15.3	8.55		-74
1920		6.50	27.9	0.566		15.5	8.56		-85
1925		6.50	28.2	0.571		15.5	8.56	2gal	-91
				STABLE					
				DO=0.00					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Signed 11/9/01 Date QC'd By 11/10/01 Date

RMT INC.

WATER SAMPLE LOG

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444 FAX: (608) 831-3334

Sheet _____ of _____

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
LEC LEAD INVEST.	By: BPM	Date: 11/9/01	By:	Date:	3885.26

SAMPLE NO.: RW-3 WELL DIAMETER: ☐ 2" ☐ 4" ☒ Other 8"

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING

TIME: 15 min DEPTH TO WATER: 8.46 + T/

WELL VOLUME: 51.02 gallons DEPTH TO BOTTOM: + T/

TOTAL VOLUME REMOVED: 2 gallons METHOD: ☐ Bailer, ☒ Pump, Peristaltic

ODOR: ☒ None ☐ Other COLOR: Clear TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very

DISPOSAL METHOD: ☐ Ground ☐ POTW ☒ Drum ☐ Other

SAMPLE

TIME: 1925 DATE: 11/9/01

ODOR: ☒ None ☐ Other COLOR: Clear TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very

pH: 6.50 CONDUCTIVITY: 0.571 mS/cm umhos/cm TEMPERATURE: 15.5 °C

COMMENTS: CORRECTED CONDUCTIVITY: SC ÷ {1 + [0.0191 x (T - 25)]}:

FILTRATE (0.45 µm)

☐ NOT APPLICABLE

ODOR: ☒ None ☐ Other COLOR: Clear COMMENTS:

BOTTLES FILLED

PRESERVATIVE CODES: A - None B - HNO3 C - H_2SO4 D - NaOH E - HCL F-

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
1	1 L	HDPE	B	Y ~~N~~					Y N
1	1 L	HDPE	B	~~Y~~ N					Y N
				Y N					Y N
				Y N					Y N

CHAIN-OF-CUSTODY NUMBER: DATE SHIPPED: 11/13/01 METHOD: Courier

AIRBILL NUMBER: SIGNED: [signature] DATE: 11/9/01

F-186 (REV 1/9/97)

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RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC LEAD INVEST WELL NUMBER: MW-25R

PROJECT NUMBER: 3568.26 WELL DIAMETER: 2"

DATE: 11/10/01 SAMPLER: McLennan/Swanson

Type Of Pump Used: GEOPUMP 2

Pumping Rate (gallon/minute):

Water level before purging (nearest 0.01 ft. below reference point) 4.03 + T/

Depth to bottom of well (obtained from well logs) 10.00 + T/

Calculated volume of water in casing 0.974 gallons

Weather conditions overcast cool 52°F

Time	Purge Rate (gal/min)	pH (Units)	Turbidity (NTU)	Conductivity Units: mS/cm Uncorrected	Conductivity Corrected	Temperature (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)	ORP
0810		6.10	7999	0.675		11.4	WATER LEVEL		94
0815		6.57	348	0.671		11.4	DIED		-9
0820		6.68	227	0.675		11.5	—		-34
0825		6.76	180	0.683		11.8	—		-51
0830		6.83	131	0.685		12.0	—		-62
0835		6.88	105	0.686		12.1	—		-69
0840		6.92	63.7	0.686		12.2	—		-75
0845		6.95	44.3	0.687		12.3	—		-80
0850		6.97	24.3	0.686		12.4	—		-83
0855		6.97	24.9	0.685		12.4	—		-84
0900		6.98	23.5	0.683		12.5	—	4.5 gal	-88
				STABLE					
				DOS NOT RECORDED					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Brenda P. McL[illegible] 11/10/01 [signature] 11/10/01

Signed Date QC'd By Date

RMT INC

WATER SAMPLE LOG

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444 FAX: (608) 831-3334

Sheet _____ of _____

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
LEC LEAD INVEST	By: BJM	Date: 11/10/01	By:	Date:	3865.26

SAMPLE NO.: MW-25R WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING

TIME: 50 min DEPTH TO WATER: 4.03 + T/

WELL VOLUME: 0.924 gallons DEPTH TO BOTTOM: + T/

TOTAL VOLUME REMOVED: 4.5 gallons METHOD: ☐ Bailer, ☒ Pump, Peristaltic

ODOR: ☒ None ☐ Other COLOR: clear TURBIDITY: ☐ None ☐ Moderate ☒ Slight ☐ Very

DISPOSAL METHOD: ☐ Ground ☐ POTW ☒ Drum ☐ Other

SAMPLE

TIME: 0900 DATE: 11/10/01

ODOR: ☒ None ☐ Other COLOR: clear TURBIDITY: ☐ None ☐ Moderate ☒ Slight ☐ Very

pH: 6.98 CONDUCTIVITY: 0.683 mS/cm umhos/cm TEMPERATURE: 12.5 °C

COMMENTS: CORRECTED CONDUCTIVITY: SC ÷ {1 + [0.0191 x (T - 25)]}:

FILTRATE (0.45 µm)

☐ NOT APPLICABLE

ODOR: ☒ None ☐ Other COLOR: Clear COMMENTS:

BOTTLES FILLED

PRESERVATIVE CODES: A - None B - HNO3 C - H_2SO4 D - NaOH E - HCL F-

Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
1	1L	HDPE	B	Y N					Y N
1	1L	HDPE	B	Y N					Y N
				Y N					Y N
				Y N					Y N

CHAIN-OF-CUSTODY NUMBER: DATE SHIPPED: 11/13/01 METHOD: courier

AIRBILL NUMBER: SIGNED: [signature] DATE: 11/10/01

F-186 (REV 1/9/97)

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RMT

LOW-FLOW GROUNDWATER SAMPLING
STABILIZATION LOG

PROJECT NAME: LEC LEAD INVEST WELL NUMBER: MW-22R

PROJECT NUMBER: 2888 26 WELL DIAMETER: 2"

DATE: 11/10/01 SAMPLER: McLennan/Swanson

Type Of Pump Used: GeoPump 2

Pumping Rate (gallon/minute):

Water level before purging (nearest 0.01 ft. below reference point) 4.99 + T/

Depth to bottom of well (obtained from well logs) 7.50 + T/

Calculated volume of water in casing 0.410 gallons

Weather conditions Sunny high of 55°F

Time	Purge Rate (gal/min)	pH (Units)	Turbidity (NTU)	Conductivity Units: mS/cm Uncorrected	Conductivity Corrected	Temperature (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)	
1005		6.65	7999	0.727		12.8	WATER LEVEL		-55
1010		6.60	220	0.729		12.8	MALFUNCTION		-62
1015		6.63	40.8	0.759		12.9			-76
1020		6.68	21.4	0.783		13.0			-89
1025		6.72	5.7	0.793		13.1			-99
1030		6.74	1.6	0.793		13.2			-103
1035		6.76	1.4	0.792		13.2			-107
1040		6.78	1.1	0.792		13.2		3.5 gal	-111
				STABLE					
				DO=0.15	g/L				

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Signed [signature] Date 11/10/01 QC'd By [signature] Date 11/10/01

RMT INC.

WATER SAMPLE LOG

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444 FAX: (608) 831-3334

Sheet _____ of _____

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
LEC LEAD INVEST	By: BPM	Date: 11/10/01	By:	Date:	3868.26

SAMPLE NO.: MW-22R WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other _____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other _____

PURGING

TIME: 35 min DEPTH TO WATER: 4.99 + T/

WELL VOLUME: 0.410 gallons DEPTH TO BOTTOM: + T/

TOTAL VOLUME REMOVED: 3.5 gallons METHOD: ☐ Bailer, _____ ☒ Pump, Peristaltic

ODOR: ☒ None ☐ Other _____ COLOR: clear TURBIDITY: ☒ None ☐ Slight ☐ Moderate ☐ Very

DISPOSAL METHOD: ☐ Ground ☐ POTW ☒ Drum ☐ Other _____

SAMPLE

TIME: 1040 DATE: 11/10/01

ODOR: ☒ None ☐ Other _____ COLOR: clear TURBIDITY: ☒ None ☐ Slight ☐ Moderate ☐ Very

pH: 6.78 CONDUCTIVITY: 0.792 mS/cm umhos/cm TEMPERATURE: 13.2 °C

COMMENTS: _____ CORRECTED CONDUCTIVITY: SC ÷ {1 + [0.0191 x (T - 25)]}: _____

FILTRATE (0.45 µm)

☐ NOT APPLICABLE

ODOR: ☒ None ☐ Other _____ COLOR: _____ COMMENTS: _____

BOTTLES FILLED

PRESERVATIVE CODES: A - None B - HNO3 C - H_2SO4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
1	1 L	HDPE	3	Y (N)					Y N
1	1 L	HDPE	3	(Y) N					Y N
				Y N					Y N
				Y N					Y N

CHAIN-OF-CUSTODY NUMBER: _____ DATE SHIPPED: 11/13/01 METHOD: Courier

AIRBILL NUMBER: _____ SIGNED: [signature] DATE: 11/16/01

F-186 (REV. 1/9/97)

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RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC LEAD SURVEY
WELL NUMBER: MW-14I
PROJECT NUMBER: 3568.26
WELL DIAMETER: 2"
DATE: 11/10/01
SAMPLER: McLennan/Swanson
Type Of Pump Used: GEOPUMP 2
Pumping Rate (gallon/minute):
Water level before purging (nearest 0.01 ft. below reference point) 4.93 + T/
Depth to bottom of well (obtained from well logs) 44.30 + T/
Calculated volume of water in casing 6.43 gallons
Weather conditions Sunny high of 55°F

Time	Purge Rate (gal/min)	pH (Units)	Turbidity (NTU)	Conductivity Units: mS/cm Uncorrected	Conductivity Corrected	Temperature (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)	ORP
1110		7.45	-7.9	0.324		13.1	WATER LEVEL		-50
1115		7.79	-10	0.324		13.5	MALFUNCTION		-58
1120		7.92	-10	0.325		13.6			-53
1125		7.97	-10	0.325		13.6			-47
1130		8.00	-10	0.326		13.6		2.25 gal	-46
			STABLE						
			DO = 2.37 g/L						

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Brent P. McLennan — Signed
11/10/01 — Date
QC'd By
11/10/01 — Date

RMT INC.

WATER SAMPLE LOG

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444 FAX: (608) 831-3334

Sheet _____ of _____

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
LEC LEAD INVEST	By: BPM	Date: 11/16/01	By:	Date:	3868.26

SAMPLE NO.: MW-145 WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other _____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other _____

PURGING

TIME: 20 min DEPTH TO WATER: 4.93 + T/

WELL VOLUME: 6.43 gallons DEPTH TO BOTTOM: _____ + T/

TOTAL VOLUME REMOVED: 2.25 gallons METHOD: ☐ Bailer, _____ ☒ Pump, Peristaltic

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☒ None ☐ Slight ☐ Moderate ☐ Very

DISPOSAL METHOD: ☐ Ground ☐ POTW ☒ Drum ☐ Other _____

SAMPLE

TIME: 11/16/01 DATE: 1130

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☒ None ☐ Slight ☐ Moderate ☐ Very

pH: 8.00 CONDUCTIVITY: 0.326 mS/cm µmhos/cm TEMPERATURE: 13.6 °C

COMMENTS: _____ CORRECTED CONDUCTIVITY: SC ÷ {1 + [0.0191 x (T - 25)]}: _____

FILTRATE (0.45 µm)

☐ NOT APPLICABLE

ODOR: ☒ None ☐ Other _____ COLOR: Clear COMMENTS: _____

BOTTLES FILLED

PRESERVATIVE CODES: A - None B - HNO3 C - H_2SO4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
1	1 L	HDPE	B	Y ~~N~~					Y N
1	1 L	HDPE	B	~~Y~~ N					Y N
				Y N					Y N
				Y N					Y N

CHAIN-OF-CUSTODY NUMBER: _____ DATE SHIPPED: 11/13/01 METHOD: Courier

AIRBILL NUMBER: _____ SIGNED: [signature] DATE: 11/16/01

F-186 (REV 1/9/97)

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RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: 2EL LEAD INVEST

WELL NUMBER: MW14S

PROJECT NUMBER: 3868.26

WELL DIAMETER: 4"

DATE: 11/10/01

SAMPLER: McLennan/Swanson

Type Of Pump Used: Geopump 2

Pumping Rate (gallon/minute):

Water level before purging (nearest 0.01 ft. below reference point) 5.20 + T/

Depth to bottom of well (obtained from well logs) 15.46 + T/

Calculated volume of water in casing 6.70 gallons

Weather conditions Sunny High of 55°F

Time	Purge Rate (gal/min)	pH (Units)	Turbidity (NTU)	Conductivity Units: mS/cm		Temperature (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)	
				Uncorrected	Corrected				
1145		7.07	5.3	0.735		11.7	5.20		-96
1150		6.96	-10.0	0.730		11.8	5.21		-99
1155		6.95	-10.0	0.734		11.8	5.22		-102
1200		6.95	-10.0	0.733		11.8	5.21	1.5 gal	-103
				STABLE					
				DO = 0.00	g/L				

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Brian P. McLennan — Signed — 11/10/01 Date

QC'd By — 11/10/01 Date

RMT INC.

WATER SAMPLE LOG

44 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444 FAX: (608) 831-3334

Sheet _____ of _____

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
LEC LEAD INVEST	By: BPM	Date: 11/10/01	By:	Date:	3868.26

SAMPLE NO.: MW-14S WELL DIAMETER: ☐ 2" ☒ 4" ☐ Other _____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other _____

PURGING

TIME: 15 min DEPTH TO WATER: 5.20 + _____ T/ _____

WELL VOLUME: 6.70 gallons DEPTH TO BOTTOM: _____ + _____ T/ _____

TOTAL VOLUME REMOVED: 1.5 gallons METHOD: ☐ Bailer, _____ ☒ Pump, Peristaltic

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☒ None ☐ Slight ☐ Moderate ☐ Very

DISPOSAL METHOD: ☐ Ground ☐ POTW ☒ Drum ☐ Other _____

SAMPLE

TIME: 1200 DATE: 11/10/01

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☒ None ☐ Slight ☐ Moderate ☐ Very

pH: 6.95 CONDUCTIVITY: 0.733 mS/cm umhos/cm TEMPERATURE: 11.8 °C

COMMENTS: _____ CORRECTED CONDUCTIVITY: SC ÷ {1 + [0.0191 x (T - 25)]}: _____

FILTRATE (0.45 µm)

☐ NOT APPLICABLE

ODOR: ☒ None ☐ Other _____ COLOR: Clear COMMENTS: _____

BOTTLES FILLED

PRESERVATIVE CODES: A - None B - HNO3 C - H_2SO4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
1	1L	HDPE	B	Y (N)					Y N
1	1L	HDPE	B	(Y) N					Y N
				Y N					Y N
				Y N					Y N

CHAIN-OF-CUSTODY NUMBER: _____ DATE SHIPPED: 11/12/01 METHOD: Courier

AIRBILL NUMBER: _____ SIGNED: [signature] DATE: 11/16/01

F-186 (REV 1/9/97)

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RMT

LOW-FLOW GROUNDWATER SAMPLING
STABILIZATION LOG

PROJECT NAME: LEC LEAD SNVCST WELL NUMBER: WP-B7

PROJECT NUMBER: 3868.26 WELL DIAMETER: 2"

DATE: 11/20/01 SAMPLER: McLennan/Swanson

Type Of Pump Used: Geopump 2

Pumping Rate (gallon/minute): ____

Water level before purging (nearest 0.01 ft. below reference point) 5.58 + T/

Depth to bottom of well (obtained from well logs) + T/ UNKNOWN

Calculated volume of water in casing UNKNOWN

Weather conditions Sunny high of 55°F

Time	Purge Rate (gal/min)	pH (Units)	Turbidity (NTU)	Conductivity Units: mS/cm Uncorrected	Corrected	Temperature (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)	ORP
1325		6.53	-7.8	0.601		13.0	5.92		-55
1330		6.47	-4.3	0.599		12.8	5.97		-68
1335		6.49	-6.9	0.608		12.8	6.01		-77
1340		6.48	-8.0	0.612		12.7	6.01		-81
1345		6.49	-8.8	0.619		12.7	6.04	2gal	-86
			STABLE						
			DO=0.41 g/L						

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Brenda P. McLennan 11/20/01 [signature] 11/20/01

Signed Date QC'd By Date

RMT INC.

WATER SAMPLE LOG

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444 FAX: (608) 831-3334

Sheet _____ of _____

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
LEC LEAD INVEST	By: BPM	Date: 11/06/01	By:	Date:	3868.26

SAMPLE NO.: WP-B7 WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other _____

WELL MATERIAL: ☒ PVC ☐ SS ☐ Iron ☐ Other _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other _____

PURGING

TIME: 20 min DEPTH TO WATER: 5.58 + T/

WELL VOLUME: UNK gallons DEPTH TO BOTTOM: _____ + T/

TOTAL VOLUME REMOVED: 2 gallons METHOD: ☐ Bailer, _____ ☒ Pump, Peristaltic

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☒ None ☐ Slight ☐ Moderate ☐ Very

DISPOSAL METHOD: ☐ Ground ☐ POTW ☒ Drum ☐ Other _____

SAMPLE

TIME: 1345 DATE: 11/06/01

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☒ None ☐ Slight ☐ Moderate ☐ Very

pH: 6.49 CONDUCTIVITY: 0.619 umhos/cm TEMPERATURE: 12.7 °C

COMMENTS: _____ CORRECTED CONDUCTIVITY: SC ÷ {1 + [0.0191 x (T - 25)]}: _____

FILTRATE (0.45 µm)

☐ NOT APPLICABLE

ODOR: ☒ None ☐ Other _____ COLOR: Clear COMMENTS: _____

BOTTLES FILLED

PRESERVATIVE CODES: A - None B - HNO3 C - H_2SO4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
1	1L	HDPE	B	Y N					Y N
1	1L	HDPE	B	Y N					Y N
				Y N					Y N
				Y N					Y N

CHAIN-OF-CUSTODY NUMBER: _____ DATE SHIPPED: 11/13/01 METHOD: Courier

AIRBILL NUMBER: _____ SIGNED: [signature] DATE: 11/10/01

F-186 (REV 1/9/97)

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RMT

LOW-FLOW GROUNDWATER SAMPLING
STABILIZATION LOG

PROJECT NAME: LEC LEAD INVEST WELL NUMBER: MW-2R

PROJECT NUMBER: 3868.26 WELL DIAMETER: 2"

DATE: 11/10/01 SAMPLER: McLennan/Swanson

Type Of Pump Used: GEOPump 2

Pumping Rate (gallon/minute):

Water level before purging (nearest 0.01 ft. below reference point) 8.72 + T/

Depth to bottom of well (obtained from well logs) 13.00 + T/

Calculated volume of water in casing 0.698 gal

Weather conditions Sunny high of 55°F

Time	Purge Rate (gal/min)	pH (Units)	Turbidity (NTU)	Conductivity Units: mS/cm Uncorrected	Corrected	Temperature (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)	ORP
1405		6.62	2.0	0.852		15.4	8.72		-78
1410		6.70	-0.2	0.843		15.4	8.73		-98
1415		6.75	-6.1	0.840		15.3	8.72		-109
1420		6.76	-6.5	0.838		15.2	8.72		-115
1425		6.76	-6.4	0.839		15.3	8.72	2.25 gal	-118
				STABLE					
				DO = 0.16 g/L					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Brenda P. McLennan 11/10/01 [signature] 11/11/01

Signed Date QC'd By Date

RMT INC.

WATER SAMPLE LOG

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444 FAX: (608) 831-3334

Sheet _____ of _____

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
LEC LEAD INVEST	By: BPM	Date: 11/10/01	By:	Date:	3868.26

SAMPLE NO.: MW-2R WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other _____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other _____

PURGING

TIME: 20 min DEPTH TO WATER: 8.72 + T/

WELL VOLUME: 0.698 gallons DEPTH TO BOTTOM: + T/

TOTAL VOLUME REMOVED: 2.25 gallons METHOD: ☐ Bailer, _____ ☒ Pump, peristaltic

ODOR: ☒ None ☐ Other _____ COLOR: clear TURBIDITY: ☒ None ☐ Slight ☐ Moderate ☐ Very

DISPOSAL METHOD: ☐ Ground ☐ POTW ☒ Drum ☐ Other _____

SAMPLE

TIME: 1425 DATE: 11/10/01

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☒ None ☐ Slight ☐ Moderate ☐ Very

pH: 6.76 CONDUCTIVITY: 0.839 µmhos/cm TEMPERATURE: 15.3 °C

COMMENTS: _____ CORRECTED CONDUCTIVITY: SC ÷ {1 + [0.0191 x (T - 25)]}: _____

FILTRATE (0.45 µm)

☐ NOT APPLICABLE

ODOR: ☒ None ☐ Other _____ COLOR: Clear COMMENTS: _____

BOTTLES FILLED

PRESERVATIVE CODES: A - None B - HNO3 C - H_2SO4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
1	1 L	HDPE	B	Y (N)					Y N
1	1 L	HDPE	B	(Y) N					Y N
				Y N					Y N
				Y N					Y N

CHAIN-OF-CUSTODY NUMBER: _____ DATE SHIPPED: 11/13/01 METHOD: Courier

AIRBILL NUMBER: _____ SIGNED: Brian P. [illegible] DATE: 11/10/01

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RMT INC.

WATER SAMPLE LOG

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444 FAX: (608) 831-3334

Sheet _____ of _____

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
LEC LEAD INVEST	By: BPM	Date: 11/10/01	By:	Date:	3868.26

SAMPLE NO.: MW-11S WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other _____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other _____

SAMPLE TYPE: ☐ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☒ Other Free product

PURGING

TIME: — DEPTH TO ~~WATER~~ Product: 10.61 + T/

WELL VOLUME: — gallons DEPTH TO BOTTOM: _____ + T/

TOTAL VOLUME REMOVED: — gallons METHOD: ☐ Bailer, _____ ☒ Pump, Peristaltic

ODOR: ☐ None ☐ Other _____ COLOR: _____ TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☐ Very

DISPOSAL METHOD: ☐ Ground ☐ POTW ☐ Drum ☐ Other _____

SAMPLE

TIME: _____ DATE: 11/10/01

ODOR: ☐ None ☒ Other DEWP COLOR: Brown TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☐ Very

pH: — CONDUCTIVITY: — µmhos/cm TEMPERATURE: — °C

COMMENTS: _____ CORRECTED CONDUCTIVITY: SC ÷ {1 + [0.0191 x (T - 25)]}: _____

FILTRATE (0.45 µm)

☒ NOT APPLICABLE

ODOR: ☐ None ☐ Other _____ COLOR: _____ COMMENTS: _____

BOTTLES FILLED

PRESERVATIVE CODES: A - None B - HNO3 C - H_2SO4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
1	1L	HDPE	—	Y (N)					Y N
				Y N					Y N
				Y N					Y N
				Y N					Y N

CHAIN-OF-CUSTODY NUMBER: _____ DATE SHIPPED: 11/13/01 METHOD: Courier

AIRBILL NUMBER: _____ SIGNED: [signature] DATE: 11/10/01

F-186 (REV 1/9/97)

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RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC LEAD INVEST
WELL NUMBER: MW-11I / Duplicate
PROJECT NUMBER: 3868.26
WELL DIAMETER: 2"
DATE: 11/18/01
SAMPLER: McLennan/Swanson
Type Of Pump Used: Geopump 2
Pumping Rate (gallon/minute):
Water level before purging (nearest 0.01 ft. below reference point) 9.77 + T/
Depth to bottom of well (obtained from well logs) 52.00 + T/
Calculated volume of water in casing 6.89 gallons
Weather conditions Sunny high of 55°F

Time	Purge Rate (gal/min)	pH (Units)	Turbidity (NTU)	Conductivity Units: mS/cm Uncorrected	Conductivity Corrected	Temperature (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)	ORP
1455		7.45	-10.8	0.364		15.3	9.77		-38
1500		7.69	-10.0	0.364		15.2	9.77		-41
1505		7.82	-10.0	0.364		15.1	9.78		-53
1510		7.90	-10.0	0.363		15.0	9.79		-61
1515		7.93	-10.0	0.362		14.9	9.79		-65
1520		7.95	-10.0	0.362		14.8	9.79	2.5 gal	-68
				STABLE					
				DO = 0.3 mg/L					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Brenda P. McLennan — Signed
11/18/01 — Date
QC'd By
11/20/01 — Date

RMT INC.

WATER SAMPLE LOG

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444 FAX: (608) 831-3334

Sheet _____ of _____

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
LEC LEAD INVEST	By: BPM	Date: 11/10/01	By:	Date:	3885.26

SAMPLE NO.: MW-11I/DUP WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other _____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other _____

PURGING

TIME: 25 min DEPTH TO WATER: 9.77 + T/

WELL VOLUME: 6.89 gallons DEPTH TO BOTTOM: _____ + T/

TOTAL VOLUME REMOVED: 2.5 gallons METHOD: ☐ Bailer, _____ ☒ Pump, Peristaltic

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☒ None ☐ Slight ☐ Moderate ☐ Very

DISPOSAL METHOD: ☐ Ground ☐ POTW ☒ Drum ☐ Other _____

SAMPLE

TIME: 1515 DATE: 11/10/01

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☒ None ☐ Slight ☐ Moderate ☐ Very

pH: 7.95 CONDUCTIVITY: 0.362 mS/cm µmhos/cm TEMPERATURE: 14.8 °C

COMMENTS: _____ CORRECTED CONDUCTIVITY: SC ÷ {1 + [0.0191 x (T - 25)]}: _____

FILTRATE (0.45 µm)

☐ NOT APPLICABLE

ODOR: ☒ None ☐ Other _____ COLOR: Clear COMMENTS: _____

BOTTLES FILLED

PRESERVATIVE CODES: A - None B - HNO3 C - H_2SO_4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
2	1 L	HDPE	B	Y N					Y N
2	1 L	HDPE	B	Y N					Y N
				Y N					Y N
				Y N					Y N

CHAIN-OF-CUSTODY NUMBER: _____ DATE SHIPPED: 11/13/01 METHOD: Courier

AIRBILL NUMBER: _____ SIGNED: [signature] DATE: 11/10/01

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RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC LEAD INVEST WELL NUMBER: WP-B1

PROJECT NUMBER: 3868.26 WELL DIAMETER: 2"

DATE: 11/10 SAMPLER: McLennan/Swanson

Type Of Pump Used: GeoPump 2

Pumping Rate (gallon/minute):

Water level before purging (nearest 0.01 ft. below reference point) 9.48 + T/

Depth to bottom of well (obtained from well logs) 11.00 + T/

Calculated volume of water in casing ~248 gallons

Weather conditions Sunny high of 55°F

Time	Purge Rate (gal/min)	pH (Units)	Turbidity (NTU)	Conductivity Units: mS/cm Uncorrected	Corrected	Temperature (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)	ORP
1605		6.57	65.9	0.959		14.5	10.13		-47
		Hose	Clog						
1615		6.49	88.1	0.983		14.7	11.11		-57
1620		Pumped dry							
		Let	Sit to	recharge					
1435	Recharge	product occurs @ 11.90							
		no Sample collected to Hom @ 12.4							

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

[signature] 11/10/01 [signature] 11/14/01

Signed Date QC'd By Date

RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC LEAD INVEST
WELL NUMBER: MW-18S
PROJECT NUMBER: 2669.26
WELL DIAMETER: 4"
DATE: 11/11/01
SAMPLER: McLennan/Swanson
Type Of Pump Used: GEO Pump 2
Pumping Rate (gallon/minute):
Water level before purging (nearest 0.01 ft. below reference point) 7.18 + T/
Depth to bottom of well (obtained from well logs) 15.04 + T/
Calculated volume of water in casing 5.13 gal
Weather conditions Sunny high of 52°F

Time	Purge Rate (gal/min)	pH (Units)	Turbidity (NTU)	Conductivity Units: mS/cm Uncorrected	Conductivity Corrected	Temperature (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)	ORP
0840		6.17	211	0.445		12.4	7.26		245
0845		6.63	9.7	0.425		12.7	7.25		166
0850		6.77	5.7	0.423		12.6	7.27		87
0855		6.82	5.3	0.423		12.8	7.26		38
0900		6.87	4.8	0.421		12.7	7.25	2gal	6
				STABLE					
				DO 5.0.11 g/L					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Brenda L. McLennan — Signed — 11/11/01 Date

QC'd By — 11/14/01 Date

RMT INC.

WATER SAMPLE LOG

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444 FAX: (608) 831-3334

Sheet _____ of _____

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
LEC LEAD INVEST	By: BPM	Date: 11/11/01	By:	Date:	3868.26

SAMPLE NO.: MW-18 S WELL DIAMETER: ☐ 2" ☒ 4" ☐ Other _____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other _____

PURGING

TIME: 20 min DEPTH TO WATER: 7.18 + T/

WELL VOLUME: 5.13 gallons DEPTH TO BOTTOM: _____ + T/

TOTAL VOLUME REMOVED: 2 gallons METHOD: ☐ Bailer, _____ ☒ Pump, Peristaltic

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very

DISPOSAL METHOD: ☐ Ground ☐ POTW ☒ Drum ☐ Other _____

SAMPLE

TIME: 0900 DATE: 11/11/01

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very

pH: 6.87 CONDUCTIVITY: 0.421 mS/cm µmhos/cm TEMPERATURE: 12.7 °C

COMMENTS: _____ CORRECTED CONDUCTIVITY: SC ÷ {1 + [0.0191 x (T - 25)]}: _____

FILTRATE (0.45 µm)

☐ NOT APPLICABLE

ODOR: ☒ None ☐ Other _____ COLOR: Clear COMMENTS: _____

BOTTLES FILLED

PRESERVATIVE CODES: A - None B - HNO3 C - H_2SO4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
1	1 L	HDPE	B	Y (N)					Y N
1	1 L	HDPE	B	(Y) N					Y N
				Y N					Y N
				Y N					Y N

CHAIN-OF-CUSTODY NUMBER: _____ DATE SHIPPED: 11/13/01 METHOD: Courier

AIRBILL NUMBER: _____ SIGNED: [signature] DATE: 11/11/01

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RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC LEAD INVEST
WELL NUMBER: MW-18I
PROJECT NUMBER: 5568.26
WELL DIAMETER: 2"
DATE: 11/11/01
SAMPLER: McLennan/Swanson
Type Of Pump Used: GeoPump 2
Pumping Rate (gallon/minute):
Water level before purging (nearest 0.01 ft. below reference point) 1.09 + T/
Depth to bottom of well (obtained from well logs) 44.69 + T/
Calculated volume of water in casing 6.13 gal
Weather conditions Sunny cool high of 52°F

Time	Purge Rate (gal/min)	pH (Units)	Turbidity (NTU)	Conductivity Units: Uncorrected	Conductivity Corrected	Temperature (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)	ORP
0915		7.29	9.7	0.698		12.8	7.35		-11
0920		7.36	7.5	0.676		13.1	7.36		-22
0925		7.33	6.8	0.700		13.0	7.35		-26
0930		7.42	6.3	0.697		12.9	7.36	2 gal	-31
				STABLE					
				DO = 0.00 g/L					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Brendan P. McLennan — Signed — 11/11/01 Date

QC'd By — 11/14/01 Date

RMT INC.

WATER SAMPLE LOG

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444 FAX: (608) 831-3334

Sheet _____ of _____

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
LEC LEAD INVEST	By: BPM	Date: 11/11/01	By:	Date:	3868.26

SAMPLE NO.: MW-18I WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other _____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other _____

PURGING

TIME: 15 min DEPTH TO WATER: 7.09 + T/

WELL VOLUME: 6.13 gallons DEPTH TO BOTTOM: _____ + T/

TOTAL VOLUME REMOVED: 2 gal gallons METHOD: ☐ Bailer, _____ ☒ Pump, Peristaltic

ODOR: ☒ None ☐ Other _____ COLOR: clear TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very

DISPOSAL METHOD: ☐ Ground ☐ POTW ☒ Drum ☐ Other _____

SAMPLE

TIME: 0930 DATE: 11/11/01

ODOR: ☒ None ☐ Other _____ COLOR: clear TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very

pH: 7.42 CONDUCTIVITY: 0.697 mS/cm umhos/cm TEMPERATURE: 12.9 °C

COMMENTS: _____ CORRECTED CONDUCTIVITY: SC ÷ {1 + [0.0191 x (T - 25)]}: _____

FILTRATE (0.45 µm)

☐ NOT APPLICABLE

ODOR: ☒ None ☐ Other _____ COLOR: clear COMMENTS: _____

BOTTLES FILLED

PRESERVATIVE CODES: A - None B - HNO3 C - H_2SO_4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
1	1 L	HDPE	B	Y (N)					Y N
1	1 L	HDPE	D	(Y) N					Y N
				Y N					Y N
				Y N					Y N

CHAIN-OF-CUSTODY NUMBER: _____ DATE SHIPPED: 11/13/01 METHOD: Courier

AIRBILL NUMBER: _____ SIGNED: [signature] DATE: 11/11/01

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RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC LEAD INVEST WELL NUMBER: MW-4

PROJECT NUMBER: 3868.26 WELL DIAMETER: 2"

DATE: 11/11/01 SAMPLER: McLennan/Swanson

Type Of Pump Used: GEOpump 2

Pumping Rate (gallon/minute):

Water level before purging (nearest 0.01 ft. below reference point) 8.90 + T/

Depth to bottom of well (obtained from well logs) 27.00 + T/

Calculated volume of water in casing 2.95 gallons

Weather conditions Sunny cool high 58°F

Time	Purge Rate (gal/min)	pH (Units)	Turbidity (NTU)	Conductivity Units: mS/cm Uncorrected	Corrected	Temperature (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)	ORR
1000		6.64	10.1	0.565		12.9	9.04		-51
1005		6.59	0.2	0.554		12.8	9.03		-54
1010		6.59	0.9	0.552		12.9	9.04		-59
1015		6.59	0.0	0.555		12.9	9.03	2.5 gal	-63
				STABLE					
				DO = 0.00 g/L					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Brian P. McLennan 11/11/01 [signature] 11/14/01

Signed Date QC'd By Date

RMT INC.

WATER SAMPLE LOG

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444 FAX: (608) 831-3334

Sheet _____ of _____

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
LEC LEAD INVEST	By: BPM	Date: 11/11/01	By:	Date:	3868.26

SAMPLE NO.: MW-4 WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other _____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other _____

PURGING

TIME: 15 min DEPTH TO WATER: 8.90 + T/

WELL VOLUME: 2.95 gallons DEPTH TO BOTTOM: + T/

TOTAL VOLUME REMOVED: 2.5 gal gallons METHOD: ☐ Bailer, _____ ☒ Pump, Peristaltic

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☒ None ☐ Slight ☐ Moderate ☐ Very

DISPOSAL METHOD: ☐ Ground ☐ POTW ☒ Drum ☐ Other _____

SAMPLE

TIME: 1015 DATE: 11/11/01

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☒ None ☐ Slight ☐ Moderate ☐ Very

pH: 6.59 CONDUCTIVITY: 0.555 mS/cm umhos/cm TEMPERATURE: 12.9 °C

COMMENTS: _____ CORRECTED CONDUCTIVITY: SC ÷ {1 + [0.0191 x (T - 25)]}: _____

FILTRATE (0.45 µm)

☐ NOT APPLICABLE

ODOR: ☒ None ☐ Other _____ COLOR: Clear COMMENTS: _____

BOTTLES FILLED

PRESERVATIVE CODES: A - None B - HNO3 C - H_2SO4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
1	1 L	HDPE	B	Y (N)					Y N
1	1 L	HDPE	B	(Y) N					Y N
				Y N					Y N
				Y N					Y N

CHAIN-OF-CUSTODY NUMBER: _____ DATE SHIPPED: 11/13/01 METHOD: Courier

AIRBILL NUMBER: _____ SIGNED: [signature] DATE: 11/11/01

F-186 (REV 1/9/97)

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RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC LEAD INVEST

WELL NUMBER: WP-B3

PROJECT NUMBER: 3468.26

WELL DIAMETER: 2"

DATE: 11/11

SAMPLER: McLennan/Swanson

Type Of Pump Used: GeoPump 2

Pumping Rate (gallon/minute):

Water level before purging (nearest 0.01 ft. below reference point) 9.60 + T/

Depth to bottom of well (obtained from well logs) 11.00 + T/

Calculated volume of water in casing 0.228 gallons

Weather conditions Sunny high of 52°F

Time	Purge Rate (gal/min)	pH (Units)	Turbidity (NTU)	Conductivity Units: mS/cm Uncorrected	Conductivity Corrected	Temperature (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)	
1100		6.47	26.7	0.779		14.6	19.14		-5
1105		6.49	19.1	0.807		14.6	12.11		-29
1110		6.47	81.4	0.767		14.5	12.81		-46
				Pumped Dry BPM					~~-58~~
1115		6.50	127.0	0.868		14.7	12.81		-58
1120		6.50	137	0.659		14.7	12.82		-68
1125		6.49	428	0.713		14.9	12.82		-70
1130		6.50	437	0.835		15.0	12.85	2gal	
1135			Sample collected						
				DO 50.29					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

[signature] Signed 11/11/01 Date

[signature] QC'd By 11/10/01 Date

http://home.rmtonline.com/rmtasp/rmtforms/f-179.doc 04/21/99 2:30 PM

RMT INC.

WATER SAMPLE LOG

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444 FAX: (608) 831-3334

Sheet _____ of _____

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
LEC LEAD INVEST	By: BJM	Date: 11/11/01	By:	Date:	3868.26

SAMPLE NO.: WP-B3 WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other _____

WELL MATERIAL: ☒ PVC ☐ SS ☐ Iron ☐ Other _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other _____

PURGING

TIME: 35 min DEPTH TO WATER: 9.60 + T/

WELL VOLUME: 0.228 gallons DEPTH TO BOTTOM: + T/

TOTAL VOLUME REMOVED: 2 gal gallons METHOD: ☐ Bailer, _____ ☒ Pump, Peristaltic

ODOR: ☐ None ☒ Other DEHP COLOR: Brown TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☒ Very

DISPOSAL METHOD: ☐ Ground ☐ POTW ☒ Drum ☐ Other _____

SAMPLE

TIME: 1135 DATE: 11/11/01

ODOR: ☐ None ☒ Other DEHP COLOR: Brown TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☒ Very

pH: 6.50 CONDUCTIVITY: 0.835 mS/cm umhos/cm TEMPERATURE: 15.0 °C

COMMENTS: Sample would not stabilize due to DEHP contamination CORRECTED CONDUCTIVITY: SC ÷ {1 + [0.0191 x (T - 25)]}: _____

FILTRATE (0.45 µm)

☐ NOT APPLICABLE

ODOR: ☐ None ☒ Other DEHP COLOR: Clear COMMENTS: _____

BOTTLES FILLED

PRESERVATIVE CODES: A - None B - HNO_3 C - H_2SO_4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
1	1L	HDPE	B	Y (N)					Y N
1	1L	"	B	(Y) N					Y N
				Y N					Y N
				Y N					Y N

CHAIN-OF-CUSTODY NUMBER: _____ DATE SHIPPED: 11/13/01 METHOD: Courier

AIRBILL NUMBER: _____ SIGNED: Brenda L. McK DATE: 11/11/01

F-186 (REV 1/9/97)

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RMT

LOW-FLOW GROUNDWATER SAMPLING
STABILIZATION LOG

PROJECT NAME: LEC LEAD INVEST WELL NUMBER: WP-B2

PROJECT NUMBER: 3868.26 WELL DIAMETER: 2'

DATE: 11/11 SAMPLER: McLennan/Swanson

Type Of Pump Used: GeoPump 2

Pumping Rate (gallon/minute):

Water level before purging (nearest 0.01 ft. below reference point) 8.69 + T/

Depth to bottom of well (obtained from well logs) 11.00 + T/

Calculated volume of water in casing 0.376 gallons

Weather conditions Sunny high of 52°F

Time	Purge Rate (gal/min)	pH (Units)	Turbidity (NTU)	Conductivity Units: ____ Uncorrected	Conductivity Units: ____ Corrected	Temperature (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)	ORP
1210		6.74	-0.8	0.982		15.0	8.91		-75
1215		6.66	-7.6	0.979		15.5	9.21		-89
1220		6.67	0.1	0.981		15.6	9.22		-96
1225		6.65	7.8	0.980		15.7	9.26		-98
1230		6.64	6.6	0.977		15.7	9.26		-99
1235		6.63	6.5	0.969		15.7	9.26	2 gal	-100
				STABLE					
				DO=4.03 g/L					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Signed [signature] Date 11/11/01 QC'd By [signature] Date 11/14/01

RMT INC.

WATER SAMPLE LOG

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444 FAX: (608) 831-3334

Sheet _____ of _____

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
LEC LEAD INVEST	By: BPM	Date: 11/11/01	By:	Date:	3888.26

SAMPLE NO.: WP-02 WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other _____

WELL MATERIAL: ☒ PVC ☐ SS ☐ Iron ☐ Other _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other _____

PURGING

TIME: 25 min DEPTH TO WATER: 8.69 + T/

WELL VOLUME: 0.376 gallons DEPTH TO BOTTOM: _____ + T/

TOTAL VOLUME REMOVED: 2 gallons METHOD: ☐ Bailer, _____ ☒ Pump, Peristaltic

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very

DISPOSAL METHOD: ☐ Ground ☐ POTW ☒ Drum ☐ Other _____

SAMPLE

TIME: 1235 DATE: 11/11/01

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very

pH: 6.63 CONDUCTIVITY: 0.969 mS/cm umhos/cm TEMPERATURE: 15.7 °C

COMMENTS: _____ CORRECTED CONDUCTIVITY: SC ÷ {1 + [0.0191 x (T - 25)]}: _____

FILTRATE (0.45 µm)

☐ NOT APPLICABLE

ODOR: ☒ None ☐ Other _____ COLOR: Clear COMMENTS: _____

BOTTLES FILLED

PRESERVATIVE CODES: A - None B - HNO3 C - H_2SO_4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
1	1L	HDPE	B	Y (N)					Y N
1	1L	HDPE	B	(Y) N					Y N
				Y N					Y N
				Y N					Y N

CHAIN-OF-CUSTODY NUMBER: _____ DATE SHIPPED: 11/13/01 METHOD: Courier

AIRBILL NUMBER: _____ SIGNED: [signature] DATE: 11/11/01

F-186 (REV 1/9/97)

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RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC

WELL NUMBER: MW-6R

PROJECT NUMBER: 3868.26

WELL DIAMETER: 2"

DATE: 11/11

SAMPLER: Mclennan / Swanson

Type Of Pump Used: GEOpump 2

Pumping Rate (gallon/minute):

Water level before purging (nearest 0.01 ft. below reference point) 8.72+ T/

Depth to bottom of well (obtained from well logs) 10.98+ T/

Calculated volume of water in casing 0.369 gallons

Weather conditions Sunny high of 52°F

Time	Purge Rate (gal/min)	pH (Units)	Turbidity (NTU)	Conductivity Units: mS/cm Uncorrected	Conductivity Units: mS/cm Corrected	Temperature (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)	ORP
1255		6.48	150.0	1.16		14.6	9.11		-65
1300		6.46	17.9	1.15		14.5	9.32		-80
1305		6.46	17.3	1.15		14.1	9.50		-85
1310		6.46	16.0	1.15		14.3	9.72	1.5 gal	-88
				STABLE					
				DO = 0.29 g/L					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Signed: [signature] Date: 11/11/01

QC'd By: [signature] Date: 11-11-01

RMT INC.

WATER SAMPLE LOG

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444 FAX: (608) 831-3334

Sheet _____ of _____

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
LEC LEAD INVEST	By: BPM	Date: 11/11/01	By:	Date:	3868.26

SAMPLE NO.: MW-6R WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other _____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other _____

PURGING

TIME: 15 min DEPTH TO WATER: 8.72 + T/

WELL VOLUME: 0.369 gallons DEPTH TO BOTTOM: + T/

TOTAL VOLUME REMOVED: 1.5 gal gallons METHOD: ☐ Bailer, _____ ☒ Pump, Peristaltic

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very

DISPOSAL METHOD: ☐ Ground ☐ POTW ☒ Drum ☐ Other _____

SAMPLE

TIME: 1310 DATE: 11/11/01

ODOR: ☒ None ☐ Other _____ COLOR: Clear TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very

pH: 6.46 CONDUCTIVITY: 1.15 mS/cm µmhos/cm TEMPERATURE: 14.3 °C

COMMENTS: _____ CORRECTED CONDUCTIVITY: SC ÷ {1 + [0.0191 x (T - 25)]}: _____

FILTRATE (0.45 µm)

☐ NOT APPLICABLE

ODOR: ☒ None ☐ Other _____ COLOR: Clear COMMENTS: _____

BOTTLES FILLED

PRESERVATIVE CODES: A - None B - HNO3 C - H_2SO4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
1	1L	HDPE	B	Y (N)					Y N
1	1L	HDPE	B	(Y) N					Y N
				Y N					Y N
				Y N					Y N

CHAIN-OF-CUSTODY NUMBER: _____ DATE SHIPPED: 11/12/01 METHOD: Courier

AIRBILL NUMBER: _____ SIGNED: [signature] DATE: 11/11/01

F-186 (REV 1/9/97)

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RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC LEAD GNUCST
WELL NUMBER: MW-3
PROJECT NUMBER: 3868.26
WELL DIAMETER: 2"
DATE: 11/11
SAMPLER: McLennan / Swanson
Type Of Pump Used: Geopump 2
Pumping Rate (gallon/minute):
Water level before purging (nearest 0.01 ft. below reference point) 11.61 + T/
Depth to bottom of well (obtained from well logs) 27.00 + T/
Calculated volume of water in casing 2.51 gall
Weather conditions Sunny high of 52°F

Time	Purge Rate (gal/min)	pH (Units)	Turbidity (NTU)	Conductivity Units: mS/cm Uncorrected	Conductivity Corrected	Temperature (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)	ORP
1345		6.55	132	0.986		13.5	12.01		-63
1350		6.61	49.8	1.02		13.8	12.45		-97
1355		6.63	51.9	1.02		13.7	12.65		-108
1400		6.63	79.4	1.01		13.8	12.83		-111
1405		6.62	34.0	1.02		13.7	12.97		-110
1410		6.64	34.2	1.02		13.8	12.97		-113
1415		6.64	35.1	1.01		13.8	12.95	2 gal	-115
			STABLE						
				DO 50.00 mg/L					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Brad P. McLennan — Signed
11/11/01 — Date
QC'd By
11-11-01 — Date

RMT INC.

WATER SAMPLE LOG

744 Heartland Trail Madison, WI 53717-8923 P. O. Box 8923 (Zip: 53708-8923) (608) 831-4444 FAX: (608) 831-3334

Sheet _____ of _____

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
LEC LEAD SNIEST	By: BPM	Date: 11/11/01	By:	Date:	3868.26

SAMPLE NO.: MW-3 WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other _____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other _____

PURGING

TIME: 30 min DEPTH TO WATER: 11.61 + T/

WELL VOLUME: 2.51 gallons DEPTH TO BOTTOM: _____ + T/

TOTAL VOLUME REMOVED: 2 gallons METHOD: ☐ Bailer, _____ ☒ Pump, Peristaltic

ODOR: ☒ None ☒ Other Oil COLOR: clear TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very

DISPOSAL METHOD: ☐ Ground ☐ POTW ☐ Drum ☐ Other _____

SAMPLE

TIME: 1415 DATE: 11/11/01

ODOR: ☒ None ☐ Other _____ COLOR: clear TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very

pH: 6.64 CONDUCTIVITY: 1.01 mS/cm umhos/cm TEMPERATURE: 13.8 °C

COMMENTS: _____ CORRECTED CONDUCTIVITY: SC ÷ {1 + [0.0191 x (T - 25)]}: _____

FILTRATE (0.45 µm)

☐ NOT APPLICABLE

ODOR: ☒ None ☐ Other _____ COLOR: Clear COMMENTS: _____

BOTTLES FILLED

PRESERVATIVE CODES: A - None B - HNO3 C - H_2SO_4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
1	1 L	HDPE	B	Y (N)					Y N
1	1 L	HDPE	B	(Y) N					Y N
				Y N					Y N
				Y N					Y N

CHAIN-OF-CUSTODY NUMBER: _____ DATE SHIPPED: 11/13/01 METHOD: Courier

AIRBILL NUMBER: _____ SIGNED: [signature] DATE: 11/11/01

F-186 (REV 1/9/97)

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Appendix D
Groundwater Testing Laboratory Data

12/12/2001

SEVERN TRENT SERVICES

STL Edison
777 New Durham Road
Edison, NJ 08817

Tel: 732-549-3900
Fax: 732-549-3679
www.stl-inc.com

Residuals Management Technologies, Inc.
222 South Riverside Plaza
Suite 280
Chicago, IL 60606

Attention: Mr Nick Clevett

Laboratory Results
Job No. Q877 - L.E. Carpenter

Dear Mr Clevett:

Enclosed are the results you requested for the following sample(s) received at our laboratory on November 13, 2001.

Lab No.	Client ID	Analysis Required
314229	MW-GR	Pb
314230	MW-GR_FF	Pb
314231	WP-B2	Pb
314232	WP-B2_FF	Pb
314233	WP-B3	Pb
314234	WP-B3_FF	Pb
314235	MW-18I	Pb
314236	MW-18I_FF	Pb
314237	MW-3	Pb
314238	MW-3_FF	Pb
314239	MW-4	Pb
314240	MW-4_FF	Pb
314241	MW-18S	Pb
314242	MW-18S_FF	Pb

SEVERN TRENT SERVICES

STL Edison
777 New Durham Road
Edison, NJ 08817

Tel: 732-549-3900
Fax: 732-549-3679
www.stl-inc.com

Laboratory Results
Job No. Q877 - L.E. Carpenter (cont'd)

Lab No.	Client ID	Analysis Required
314245	MW-17S	Pb
314246	MW-17S_FF	Pb
314247	WP-AS	Pb
314248	WP-AS_FF	Pb
314249	MW-16S	Pb
314250	MW-16S_FF	Pb
314251	MW-19-3	Pb
314252	MW-19-3_FF	Pb
314253	MW-15S	Pb
314254	MW-15S_FF	Pb
314255	WP-A3	Pb
314256	WP-A3_FF	Pb
314257	WP-B5	Pb
314258	WP-B5_FF	Pb

SEVERN TRENT SERVICES

STL Edison
777 New Durham Road
Edison, NJ 08817

Tel: 732-549-3900
Fax: 732-549-3679
www.stl-inc.com

Laboratory Results
Job No. Q877 - L.E. Carpenter (cont'd)

Lab No.	Client ID	Analysis Required
314259	RW-3	Pb
314260	RW-3_FF	Pb
314261	MW-11I	Pb
314262	MW-11I_FF	Pb
314263	MW-2R	Pb
314264	MW-2R_FF	Pb
314265	WP-B7	Pb
314266	WP-B7_FF	Pb
314267	MW-14S	Pb
314268	MW-14S_FF	Pb
314269	MW-14I	Pb
314270	MW-14I_FF	Pb
314271	MW-22R	Pb
314272	MW-22R_FF	Pb

SEVERN
TRENT
SERVICES

STL Edison
777 New Durham Road
Edison, NJ 08817

Tel: 732-549-3900
Fax: 732-549-3679
www.stl-inc.com

Laboratory Results
Job No. Q877 - L.E. Carpenter (cont'd)

Lab No.	Client ID	Analysis Required
314273	MW-25R	Pb
314274	MW-25R_FF	Pb
314275	Duplicate	Pb
314276	Duplicate_FF	Pb
314277	FieldBlank-1109	Pb
314278	FieldBlank-1110	Pb

An invoice for our services is also enclosed. If you have any questions please contact your Project Manager, Joy Kelly, at (732) 549-3900.

Very Truly Yours,

Michael J. Urban
Laboratory Director

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Analytical Results Summary

Client ID: **MW-GR**
Site: **L.E. Carpenter**

Lab Sample No: 314229
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-GR FF**
Site: **L.E. Carpenter**

Lab Sample No: 314230
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **WP-B2**
Site: **L.E. Carpenter**

Lab Sample No: 314231
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **WP-B2 FF**
Site: **L.E. Carpenter**

Lab Sample No: 314232
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **WP-B3**
Site: **L.E. Carpenter**

Lab Sample No: 314233
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **WP-B3 FF**
Site: **L.E. Carpenter**

Lab Sample No: 314234
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	5.1	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-18I**
Site: **L.E. Carpenter**

Lab Sample No: 314235
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-18I FF**
Site: **L.E. Carpenter**

Lab Sample No: 314236
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-3**
Site: **L.E. Carpenter**

Lab Sample No: 314237
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-3 FF**
Site: **L.E. Carpenter**

Lab Sample No: 314238
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-4**
Site: **L.E. Carpenter**

Lab Sample No: 314239
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-4 FF**
Site: **L.E. Carpenter**

Lab Sample No: 314240
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-18S**
Site: **L.E. Carpenter**

Lab Sample No: 314241
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-18S FF**
Site: **L.E. Carpenter**

Lab Sample No: 314242
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-17S**
Site: **L.E. Carpenter**

Lab Sample No: 314245
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-17S FF**
Site: **L.E. Carpenter**

Lab Sample No: 314246
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **WP-AS**
Site: **L.E. Carpenter**

Lab Sample No: 314247
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **WP-AS FF**
Site: **L.E. Carpenter**

Lab Sample No: 314248
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-16S**
Site: **L.E. Carpenter**

Lab Sample No: 314249
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-16S FF**
Site: **L.E. Carpenter**

Lab Sample No: 314250
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-19-3**
Site: **L.E. Carpenter**

Lab Sample No: 314251
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-19-3 FF**
Site: **L.E. Carpenter**

Lab Sample No: 314252
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-15S**
Site: **L.E. Carpenter**

Lab Sample No: 314253
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-15S FF**
Site: **L.E. Carpenter**

Lab Sample No: 314254
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **WP-A3**
Site: **L.E. Carpenter**

Lab Sample No: 314255
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **WP-A3 FF**
Site: **L.E. Carpenter**

Lab Sample No: 314256
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **WP-B5**
Site: **L.E. Carpenter**

Lab Sample No: 314257
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **WP-B5 FF**
Site: **L.E. Carpenter**

Lab Sample No: 314258
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **RW-3**
Site: **L.E. Carpenter**

Lab Sample No: 314259
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	4.0	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **RW-3 FF**
Site: **L.E. Carpenter**

Lab Sample No: 314260
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-11I**
Site: **L.E. Carpenter**

Lab Sample No: 314261
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-11I FF**
Site: **L.E. Carpenter**

Lab Sample No: 314262
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-2R**
Site: **L.E. Carpenter**

Lab Sample No: 314263
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-2R FF**
Site: **L.E. Carpenter**

Lab Sample No: 314264
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **WP-B7**
Site: **L.E. Carpenter**

Lab Sample No: 314265
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **WP-B7 FF**
Site: **L.E. Carpenter**

Lab Sample No: 314266
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-14S**
Site: **L.E. Carpenter**

Lab Sample No: 314267
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-14S FF**
Site: **L.E. Carpenter**

Lab Sample No: 314268
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-14I**
Site: **L.E. Carpenter**

Lab Sample No: 314269
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-14I FF**
Site: **L.E. Carpenter**

Lab Sample No: 314270
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-22R**
Site: **L.E. Carpenter**

Lab Sample No: 314271
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-22R FF**
Site: **L.E. Carpenter**

Lab Sample No: 314272
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-25R**
Site: **L.E. Carpenter**

Lab Sample No: 314273
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-25R FF**
Site: **L.E. Carpenter**

Lab Sample No: 314274
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **Duplicate**
Site: **L.E. Carpenter**

Lab Sample No: 314275
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **Duplicate FF**
Site: **L.E. Carpenter**

Lab Sample No: 314276
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **FieldBlank-1109**
Site: **L.E. Carpenter**

Lab Sample No: 314277
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	2.3	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **FieldBlank-1110**
Site: **L.E. Carpenter**

Lab Sample No: 314278
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

General Information

Chain of Custody

Q877

STL EDISON
777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

PAGE 1 OF 6

Name (for report and invoice) NICK CLEVETT	Samplers Name (Printed) BRENDAN MCLENNAN/ERIC SWANSON	Site/Project Identification LEC
Company RMT, INC - CHICAGO	P.O. # 3364	State (Location of site): NJ: [X] NY: [ ] Other:
Address 222 S. RIVERSIDE PLAZA SUITE 820	Analysis Turnaround Time: Standard [ ]	Regulatory Program: CERCLA
City CHICAGO State IL 60606	Rush Charges Authorized For: 2 Week [ ] 1 Week [ ] Other [X] 1 DAY or ASAP	LAB USE ONLY Project No:
Phone 312-575-0200 Fax 312-575-0300		Job No: Q877

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

Sample Identification	Date	Time	Matrix	No. of. Cont.	LEAD										Sample Numbers
MW-6R	11/11/01	1310	GW	1	X										314229
MW-6R FF	11/11/01	1310			X										314230
WP-B2	11/11/01	1235			X										314231
WP-B2 FF	11/11/01	1235			X										314232
WP-B3	"	1135			X										314233
WP-B3 FF	"	1135			X										314234
MW-18 I	"	0930			X										314235
MW-18 I FF	"	0930			X										314236
MW-3	"	1415			X										314237
MW-3 FF	"	1415			X										314238
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH				Soil:											
6 = Other _____, 7 = Other _____				Water:	4.1										

Special Instructions _____ Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) [signature]	RMT	11/12/01 1630	1) Ed Reynolds	STL
2) Ed Reynolds	STL Edison Ed Reynolds	11/13/01 0630	2) [signature]	STL
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Q877

STL EDISON

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CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice) SEE PAGE 1	Samplers Name (Printed) BRENDAN MCLENNAN / ERIC SWANSON	Site/Project Identification LEC
Company	P.O. # 3364	State (Location of site): NJ: [X] NY: [ ] Other:
Address		Regulatory Program: CERCLA
City State		
Phone Fax		

Analysis Turnaround Time 11-12-01
Standard [X] per Brendan RM
Rush Charges Authorized For:
2 Week [ ]
1 Week [ ]
Other [X] ~~100% ASAP~~

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: Q877

Sample Identification	Date	Time	Matrix	No. of. Cont.	LEAD	Sample Numbers	
MW-4	11/11/01	1015	GW	1	X	314239	
MW-4 FF	11/11/01	1015			X	314240	
MW-18S	"	0900			X	314241	
MW-18S FF	"	0900			X	314242	
WP-B1	11/10/01	1435			X	~~314243~~	No sample
WP-B1 FF	"	1435			X	~~314244~~	No sample
MW-17S	11/9/01	1655			X	314245	
MW-17S FF	11/9/01	1655			X	314246	
WP-~~A~~ A5	"	1740			X	314247	
WP-A5 FF	"	1740			X	314248	

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____

Soil:
Water: ~~X~~ 4/1

Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by	Company	Date / Time	Received by	Company
1) [signature]	Ruth	11/12/01 1630	1) [signature]	STL
2) Ed Reynolds	STL Edison	11/03/01 0630	2) [signature]	STL
3)	Ed Reynolds		3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Q877

STL EDISON
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CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): SEE PAGE 1
Company:
Address:
City: State:
Phone: Fax:

Samplers Name (Printed): BRENDAN MULLENMAN / ERIC SWANSON
P.O. #: 3364
Site/Project Identification: LEC
State (Location of site): NJ: [X] NY: [ ] Other:
Regulatory Program: CERCLA

Analysis Turnaround Time
Standard [ ]
Rush Charges Authorized For:
2 Week [ ]
1 Week [ ]
Other [X] 1 DAY OR ASAP

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: Q877

Sample Identification	Date	Time	Matrix	No. of Cont.	LEAD	Sample Numbers
MW-16S	11/9/01	1615	GW	1	X	314249
MW-16S-FF	"	1615			X	314250
MW-17-3	"	1220			X	314251
MW-18-3 FF	"	1220			X	314252
MW-15S	"	1540			X	314253
MW-15S FF	"	1540			X	314254
WP-A3	"	1435			X	314255
WP-A3 FF	"	1435			X	314256
WP-B5	"	1550			X	314257
WP-B5 FF	"	1550			X	314258

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH, 6 = Other _____, 7 = Other _____
Soil:
Water: 4,1

Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by	Company	Date / Time	Received by	Company
1) [signature]	RMT	11/12/01 1630	1) [signature]	STL
2) [signature]	STL Edison	11/13/01 0630	2) [signature]	STL
3)	Ed Reynolds	/ /	3)	
4)		/ /	4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Q877

STL EDISON
777 New Durham Road
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CHAIN OF CUSTODY / ANALYSIS REQUEST

PAGE 4 OF 6

Name (for report and invoice) SEE PAGE 1	Samplers Name (Printed) BRENDAN MCLEENAN / ERIC SWANSON	Site/Project Identification LEC
Company	P.O. #	State (Location of site): NJ: [X] NY: [ ] Other:
		Regulatory Program: CERCLA
Address	Analysis Turnaround Time: Standard [ ]	LAB USE ONLY Project No:
City State	Rush Charges Authorized For: 2 Week [ ] 1 Week [ ] Other [X] 10 DAY OR ASAP	Job No: Q877
Phone Fax		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

Sample Identification	Date	Time	Matrix	No. of. Cont.	LEAD										Sample Numbers
RW-3	11/9/01	1925	GW	1	X										314259
RW-3 FF	"	1925			X										314260
MW-11I	11/10/01	1520			X										314261
MW-11I FF	"	1520			X										314262
MW-2R	"	1425			X										314263
MW-2R FF	"	1425			X										314264
WP-B7	"	1345			X										314265
WP-B7 FF	"	1345			X										314266
MW-14S	"	1200			X										314267
MW-14S FF	"	1200			X										314268
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH				Soil:											
6 = Other _____, 7 = Other _____				Water:	4,)										

Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by	Company	Date / Time	Received by	Company
1) [signature]	RMT	11/12/01 1630	1) Ed Reynolds	STL
2) Ed Reynolds	STL Edison Ed Reynolds	11/13/01 0630	2) [signature]	STL
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Q877

STL EDISON

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice) SEE PAGE 1	Samplers Name (Printed) BRENDAN MCLENNAN/ERIC SWANSON	Site/Project Identification LEL
Company	P.O. #	State (Location of site): NJ: [X] NY: [ ] Other:
		Regulatory Program: CERCLA
Address	Analysis Turnaround Time: Standard [ ]	LAB USE ONLY Project No:
City State	Rush Charges Authorized For: 2 Week [ ] 1 Week [ ]	Job No: Q877
Phone Fax	Other [X] 1 DAY IR ASAP	

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

Sample Identification	Date	Time	Matrix	No. of. Cont.	LEAD	Sample Numbers	
MW-14I	11/10/01	1130	GW	1	X	314269	
MW-14I FF	"	1130			X	~~314270~~	314270
MW-22R	11/10/01	1040			X	314271	
MW-22R FF	11/10/01	1090			X	314272	
MW-25R	11/10/01	0900			X	314273	
MW-25R FF	11/10/01	0900			X	314274	
~~MW-11S FF~~ BPM	~~11/10/01~~	~~0900~~			X		
Duplicate	[illegible]	—			X	~~314275~~	314275
Duplicate FF	—	—			X	~~314276~~	314276
Field Blank	11/09/01	1945			X	~~314277~~	314277

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____

Soil:
Water: 4, 1

Special Instructions ~~MW-11S FF is Pure product Please advise if you cannot analyze for lead~~ BPM

Water Metals Filtered (Yes/No)?

Relinquished by	Company	Date / Time	Received by	Company
1) Brendan McL	RMT	11/12/01 1630	1) Ed Reynolds	STL
2) Ed Reynolds	STL Edison	11/13/01 0630	2) [illegible]	STL
3)	Ed Reynolds		3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Q877

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CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): SEE PAGE 1	Samplers Name (Printed): B. McLennan / E. Swanson	Site/Project Identification: LEC
Company	P.O. # 3364	State (Location of site): NJ: X NY: ☐ Other:
		Regulatory Program: CERCLA
Address	Analysis Turnaround Time: Standard ☐	
City State	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone Fax		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: Q877

Sample Identification	Date	Time	Matrix	No. of Cont.	LEAD										Sample Numbers
Field Blank	10/10/01	1760	GW	1	X										314278
~~Field Blank~~	~~11/11/01~~	~~1500~~	~~GW~~	~~1~~	~~X~~										
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH				Soil:											
6 = Other _____, 7 = Other _____				Water:	4/1										

Special Instructions

Water Metals Filtered (Yes/No)? NA

Relinquished by	Company	Date / Time	Received by	Company
1) [signature]	RMT	11/12/01 1630	1) [signature]	STL
2) [signature]	STL Edison	11/13/01 0630	2) [signature]	STL
3) Ed Reynolds	Ed Reynolds		3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Laboratory Chronicles

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/11/2001
Sample No.:	314229	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/15/2001	Sanagavarapu, Suguna	11/16/2001	Mendoza, Conchita	11976

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/11/2001
Sample No.:	314230	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/15/2001	Sanagavarapu, Suguna	11/16/2001	Mendoza, Conchita	11976

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/11/2001
Sample No.:	314231	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/15/2001	Sanagavarapu, Suguna	11/16/2001	Mendoza, Conchita	11976

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/11/2001
Sample No.:	314232	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/15/2001	Sanagavarapu, Suguna	11/16/2001	Evans, Donald	11976

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/11/2001
Sample No.:	314233	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/15/2001	Sanagavarapu, Suguna	11/16/2001	Evans, Donald	11976

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/11/2001
Sample No.:	314234	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/15/2001	Sanagavarapu, Suguna	11/16/2001	Evans, Donald	11976

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/11/2001
Sample No.:	314235	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/15/2001	Sanagavarapu, Suguna	11/16/2001	Evans, Donald	11976

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/11/2001
Sample No.:	314236	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/15/2001	Sanagavarapu, Suguna	11/16/2001	Evans, Donald	11976

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q877 **Site:** L.E. Carpenter

Client: Residuals Management Technologies, Inc. **Date Sampled:** 11/11/2001

Sample No.: 314237 **Date Received:** 11/13/2001

Matrix: WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/15/2001	Sanagavarapu, Suguna	11/16/2001	Evans, Donald	11976

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/11/2001
Sample No.:	314238	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/15/2001	Sanagavarapu, Suguna	11/16/2001	Evans, Donald	11976

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/11/2001
Sample No.:	314239	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/15/2001	Sanagavarapu, Suguna	11/16/2001	Evans, Donald	11976

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/11/2001
Sample No.:	314240	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/15/2001	Sanagavarapu, Suguna	11/16/2001	Evans, Donald	11976

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/11/2001
Sample No.:	314241	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/15/2001	Sanagavarapu, Suguna	11/16/2001	Evans, Donald	11976

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/11/2001
Sample No.:	314242	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/15/2001	Sanagavarapu, Suguna	11/16/2001	Evans, Donald	11976

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q877 **Site:** L.E. Carpenter

Client: Residuals Management Technologies, Inc. **Date Sampled:** 11/9/2001

Sample No.: 314245 **Date Received:** 11/13/2001

Matrix: WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/15/2001	Sanagavarapu, Suguna	11/16/2001	Evans, Donald	11976

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/9/2001
Sample No.:	314246	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/15/2001	Sanagavarapu, Suguna	11/16/2001	Evans, Donald	11976

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/9/2001
Sample No.:	314247	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/15/2001	Sanagavarapu, Suguna	11/16/2001	Evans, Donald	11976

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/9/2001
Sample No.:	314248	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAC	11/15/2001	Sanagavarapu, Suguna	11/16/2001	Evans, Donald	11976

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/9/2001
Sample No.:	314249	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAC	11/15/2001	Sanagavarapu, Suguna	11/16/2001	Evans, Donald	11976

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/9/2001
Sample No.:	314250	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/15/2001	Sanagavarapu, Suguna	11/16/2001	Evans, Donald	11976

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/9/2001
Sample No.:	314251	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/17/2001	Evans, Donald	11978

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/9/2001
Sample No.:	314252	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Chen, Chuangming	11/17/2001	Evans, Donald	11978

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/9/2001
Sample No.:	314253	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/17/2001	Evans, Donald	11978

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/9/2001
Sample No.:	314254	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/17/2001	Evans, Donald	11978

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/9/2001
Sample No.:	314255	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/17/2001	Evans, Donald	11978

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q877 **Site:** L.E. Carpenter

Client: Residuals Management Technologies, Inc. **Date Sampled:** 11/9/2001

Sample No.: 314256 **Date Received:** 11/13/2001

Matrix: WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/17/2001	Evans, Donald	11978

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q877 **Site:** L.E. Carpenter

Client: Residuals Management Technologies, Inc. **Date Sampled:** 11/9/2001

Sample No.: 314257 **Date Received:** 11/13/2001

Matrix: WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/17/2001	Evans, Donald	11978

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/9/2001
Sample No.:	314258	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/17/2001	Evans, Donald	11978

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/9/2001
Sample No.:	314259	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/17/2001	Evans, Donald	11978

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/9/2001
Sample No.:	314260	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/17/2001	Evans, Donald	11978

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q877

Site: L.E. Carpenter

Client: Residuals Management Technologies, Inc.

Date Sampled: 11/10/2001

Sample No.: 314261

Date Received: 11/13/2001

Matrix: WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/17/2001	Evans, Donald	11978

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
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Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/10/2001
Sample No.:	314262	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/17/2001	Evans, Donald	11978

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
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Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/10/2001
Sample No.:	314263	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/17/2001	Evans, Donald	11978

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/10/2001
Sample No.:	314264	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/17/2001	Evans, Donald	11978

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/10/2001
Sample No.:	314265	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/17/2001	Evans, Donald	11978

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/10/2001
Sample No.:	314266	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/17/2001	Evans, Donald	11978

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/10/2001
Sample No.:	314267	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/17/2001	Evans, Donald	11978

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q877
Site: L.E. Carpenter
Client: Residuals Management Technologies, Inc.
Date Sampled: 11/10/2001
Sample No.: 314268
Date Received: 11/13/2001
Matrix: WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/17/2001	Evans, Donald	11978

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/10/2001
Sample No.:	314269	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/17/2001	Evans, Donald	11978

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q877
Site: L.E. Carpenter
Client: Residuals Management Technologies, Inc.
Date Sampled: 11/10/2001
Sample No.: 314270
Date Received: 11/13/2001
Matrix: WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/17/2001	Evans, Donald	11978

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q877
Site: L.E. Carpenter
Client: Residuals Management Technologies, Inc.
Date Sampled: 11/10/2001
Sample No.: 314271
Date Received: 11/13/2001
Matrix: WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/16/2001	Evans, Donald	11979

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q877

Site: L.E. Carpenter

Client: Residuals Management Technologies, Inc.

Date Sampled: 11/10/2001

Sample No.: 314272

Date Received: 11/13/2001

Matrix: WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAC	11/16/2001	Yang, Qin	11/16/2001	Evans, Donald	11979

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q877

Client: Residuals Management Technologies, Inc.

Sample No.: 314273

Site: L.E. Carpenter

Date Sampled: 11/10/2001

Date Received: 11/13/2001

Matrix: WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/16/2001	Evans, Donald	11979

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q877

Site: L.E. Carpenter

Client: Residuals Management Technologies, Inc.

Date Sampled: 11/10/2001

Sample No.: 314274

Date Received: 11/13/2001

Matrix: WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/16/2001	Evans, Donald	11979

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	Q877	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/10/2001
Sample No.:	314275	**Date Received:**	11/13/2001
		Matrix:	WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/16/2001	Evans, Donald	11979

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q877

Site: L.E. Carpenter

Client: Residuals Management Technologies, Inc.

Date Sampled: 11/10/2001

Sample No.: 314276

Date Received: 11/13/2001

Matrix: WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/16/2001	Evans, Donald	11979

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q877

Site: L.E. Carpenter

Client: Residuals Management Technologies, Inc.

Date Sampled: 11/9/2001

Sample No.: 314277

Date Received: 11/13/2001

Matrix: WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/17/2001	Evans, Donald	11979

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: Q877

Site: L.E. Carpenter

Client: Residuals Management Technologies, Inc.

Date Sampled: 11/10/2001

Sample No.: 314278

Date Received: 11/13/2001

Matrix: WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/16/2001	Yang, Qin	11/17/2001	Evans, Donald	11979

Methodology Review

Analytical Methodology Summary

Volatile Organics:

Unless otherwise specified, water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Drinking water samples are analyzed by EPA Method 524.2. Solid samples are analyzed for volatile organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8260B. Water samples are analyzed for volatile organics by purge and trap GC/PID and GC/ELCD as specified in EPA Methods 601 and 602. Solid samples are analyzed by GC/PID and GC/ELCD in accordance with SW-846, 3rd Edition Method 8021B.

Acid and Base/Neutral Extractable Organics:

Unless otherwise specified, water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8270C.

GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8260B and 8270C. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatile, 15 for base/neutrals and 10 for acid extractables).

Organochlorine Pesticides and PCBs:

Unless otherwise specified, water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8081A for organochlorine pesticides and Method 8082 for PCBs.

Total Petroleum Hydrocarbons:

Water samples are analyzed for petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples are prepared for analysis by soxhlet extraction consistent with the March 1990 N.J. DEP "Remedial Investigation Guide" Appendix A, page 52, and analyzed by U.S. EPA Method 418.1

Metals Analysis:

Metals analyses are performed by any of four techniques specified by a Method Code provided on each data report page, as follows:

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)

A - Flame Atomic Absorption

F - Furnace Atomic Absorption

CV - Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in "Methods for Chemical Analysis of Water and Wastewater" (EPA 600/4-79-020). Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition); samples are digested according to Method 3050B "Acid Digestion of Soil, Sediments and Sludges."

Specific method references for ICP analyses are water Method 200.7 and solid Method 6010B. Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1 and solid Method 7471A. Other specific Atomic Absorption method references are as follows:

	Water Test Method		Solid Test Method	
Element	Flame	Furnace	Flame	Furnace
Aluminum	202.1	202.2	7020	--
Antimony	204.1	204.2	7040	7041
Arsenic	--	206.2	--	7060
Barium	208.1	--	7080	--
Beryllium	210.1	210.2	7090	7091
Cadmium	213.1	213.2	7130	7131
Calcium	215.1	--	7140	--
Chromium, Total	218.1	218.2	7190	7191
Chromium, (+6)	218.4	218.5	7197	7195
Cobalt	219.1	219.2	7200	7201
Copper	220.1	220.2	7210	--
Iron	236.1	236.2	7380	--
Lead	239.1	239.2	7420	7421
Magnesium	242.1	--	7450	--
Manganese	243.1	243.2	7460	--
Nickel	249.1	249.2	7520	--
Potassium	258.1	--	7610	--
Selenium	--	270.2	--	7740
Silver	272.1	272.2	7760	--
Sodium	273.1	--	7770	--
Tin	283.1	283.2	7870	--
Thallium	279.1	279.2	7840	7841
Vanadium	286.1	286.2	7910	7911
Zinc	289.1	289.2	7950	--

Cyanide:

Water samples are analyzed for cyanide using EPA Method 335.3. Cyanide is determined in solid samples as specified in the EPA Contract Laboratory Program IFB dated July 1988, revised February 1989.

Phenols:

Water samples are analyzed for total phenols using EPA Method 420.2. Total phenols are determined in solid samples by preparing the sample as outlined in the EPA Contract Laboratory Program IFB for cyanide, followed by a phenols determination using EPA Method 420.1.

Cleanup of Semivolatile Extracts:

Upon request Method 3611B Alumina Column Cleanup and/or Method 3650B Acid-Base Partition Cleanup are performed to improve detection limits by the removal of saturated hydrocarbon interferences.

Hazardous Waste Characteristics:

Samples for hazardous waste characteristics are analyzed as specified in the U.S. EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition). Specific method references are as follows:

Ignitability	- Method 1020A
Corrosivity	- Water pH Method 9040B Soil pH Method 9045C
Reactivity	- Chapter 7, Section 7.3.3 and 7.3.4 respectively for hydrogen cyanide and hydrogen sulfide release
Toxicity	- TCLP Method 1311

Miscellaneous Parameters:

Additional analyses performed on both aqueous and solid samples are in accordance with methods published in the following references:

- Test Methods for Evaluating Solid Wastes, SW-846 3rd Edition, November 1986.
- Standard Methods for the Examination of Water and Wastewater, 17th Edition.
- Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, 1979.

Data Reporting Qualifiers

ORGANIC DATA REPORTING QUALIFIERS

ND - The compound was not detected at the indicated concentration.

J - Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

INORGANIC DATA REPORTING QUALIFIERS (SW-846 METHODS ONLY)

ND - The compound was not detected at the indicated concentration.

B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit.

E - The reported value is estimated because of the presence of interference. See explanatory note in the Nonconformance Summary if the problem applies to all of the samples or on the individual Inorganic Analysis Data Sheet if the problem is isolated.

M - Duplicate injection precision not met on the Furnace Atomic Absorption analysis.

N - The spiked sample recovery is not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

* - Duplicate Analysis is not within control limits.

W - Post digestion spike for Furnace Atomic Absorption analysis is out of control.

\+ - Correlation coefficient for MSA is less than 0.995.

M Column - Method Qualifiers

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP).

A - Flame Atomic Absorption Spectroscopy (FAA).

F - Graphite Furnace Atomic Absorption Spectroscopy (GFAA).

CV - Cold Vapor Atomic Absorption Spectroscopy.

Non-Conformance Summary

NON-CONFORMANCE SUMMARY

STL Edison Job Number: Q877

Volatile Organics Analysis:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

Base/Neutral and/or Acid Extractable Organics:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

PCBs and/or Organochlorine Pesticides:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

Non-conformance Summary, Page 2 of 2
STL Edison Job Number: Q877

Metals Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

Total Petroleum Hydrocarbons:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

General Chemistry/Disposal Parameters:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

Signature of
Laboratory Manager: _____ Date: 12/12/01

Metals Forms and Data

Analytical Results Summary

Client ID: **MW-GR**
Site: **L.E. Carpenter**

Lab Sample No: 314229
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-GR FF**
Site: **L.E. Carpenter**

Lab Sample No: 314230
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **WP-B2**
Site: **L.E. Carpenter**

Lab Sample No: 314231
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **WP-B2 FF**
Site: **L.E. Carpenter**

Lab Sample No: 314232
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **WP-B3**
Site: **L.E. Carpenter**

Lab Sample No: 314233
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **WP-B3 FF**
Site: **L.E. Carpenter**

Lab Sample No: 314234
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	5.1	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-18I**
Site: **L.E. Carpenter**

Lab Sample No: 314235
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-18I FF**
Site: **L.E. Carpenter**

Lab Sample No: 314236
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-3**
Site: **L.E. Carpenter**

Lab Sample No: 314237
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-3 FF**
Site: **L.E. Carpenter**

Lab Sample No: 314238
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-4**
Site: **L.E. Carpenter**

Lab Sample No: 314239
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-4 FF**
Site: **L.E. Carpenter**

Lab Sample No: 314240
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-18S**
Site: **L.E. Carpenter**

Lab Sample No: 314241
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-18S FF**
Site: **L.E. Carpenter**

Lab Sample No: 314242
Lab Job No: Q877

Date Sampled: 11/11/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-17S**
Site: **L.E. Carpenter**

Lab Sample No: 314245
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-17S FF**
Site: **L.E. Carpenter**

Lab Sample No: 314246
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **WP-AS**
Site: **L.E. Carpenter**

Lab Sample No: 314247
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **WP-AS FF**
Site: **L.E. Carpenter**

Lab Sample No: 314248
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-16S**
Site: **L.E. Carpenter**

Lab Sample No: 314249
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-16S FF**
Site: **L.E. Carpenter**

Lab Sample No: 314250
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-19-3**
Site: **L.E. Carpenter**

Lab Sample No: 314251
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-19-3 FF**
Site: **L.E. Carpenter**

Lab Sample No: 314252
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-15S**
Site: **L.E. Carpenter**

Lab Sample No: 314253
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-15S FF**
Site: **L.E. Carpenter**

Lab Sample No: 314254
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **WP-A3**
Site: **L.E. Carpenter**

Lab Sample No: 314255
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **WP-A3 FF**
Site: **L.E. Carpenter**

Lab Sample No: 314256
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **WP-B5**
Site: **L.E. Carpenter**

Lab Sample No: 314257
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **WP-B5 FF**
Site: **L.E. Carpenter**

Lab Sample No: 314258
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **RW-3**
Site: **L.E. Carpenter**

Lab Sample No: 314259
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	4.0	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **RW-3 FF**
Site: **L.E. Carpenter**

Lab Sample No: 314260
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-11I**
Site: **L.E. Carpenter**

Lab Sample No: 314261
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-11I FF**
Site: **L.E. Carpenter**

Lab Sample No: 314262
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-2R**
Site: **L.E. Carpenter**

Lab Sample No: 314263
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-2R FF**
Site: **L.E. Carpenter**

Lab Sample No: 314264
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **WP-B7**
Site: **L.E. Carpenter**

Lab Sample No: 314265
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **WP-B7 FF**
Site: **L.E. Carpenter**

Lab Sample No: 314266
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-14S**
Site: **L.E. Carpenter**

Lab Sample No: 314267
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-14S FF**
Site: **L.E. Carpenter**

Lab Sample No: 314268
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-14I**
Site: **L.E. Carpenter**

Lab Sample No: 314269
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-14I FF**
Site: **L.E. Carpenter**

Lab Sample No: 314270
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-22R**
Site: **L.E. Carpenter**

Lab Sample No: 314271
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-22R FF**
Site: **L.E. Carpenter**

Lab Sample No: 314272
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-25R**
Site: **L.E. Carpenter**

Lab Sample No: 314273
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **MW-25R FF**
Site: **L.E. Carpenter**

Lab Sample No: 314274
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **Duplicate**
Site: **L.E. Carpenter**

Lab Sample No: 314275
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **Duplicate FF**
Site: **L.E. Carpenter**

Lab Sample No: 314276
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **FieldBlank-1109**
Site: **L.E. Carpenter**

Lab Sample No: 314277
Lab Job No: Q877

Date Sampled: 11/09/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	2.3	2.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: **FieldBlank-1110**
Site: **L.E. Carpenter**

Lab Sample No: 314278
Lab Job No: Q877

Date Sampled: 11/10/01
Date Received: 11/13/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	ND	2.2	P

M Column - Method Code (See Section 2 of Report)

Blank Results Summary

BLANKS

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: _Q877 Batch No.: 11976_

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	2.2	U	2.2	U	2.2	U	2.2	U	2.200	U	P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Molybdenu											NR

BLANKS

Lab Name: STL_EDISON_____ _____

Lab Code: 12543_ Lab Job No.: _Q877 _____ Batch No.: 11976_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead			2.2	U							NR
Magnesium											P
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Molybdenu											NR

BLANKS

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: _Q877 Batch No.: 11978_

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	2.2	U	2.2	U	2.2	U	2.2	U	2.200	U	NR
Magnesium											P
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Molybdenu											NR
											NR

BLANKS

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: _Q877 Batch No.: 11978_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead			2.2	U							NR
Magnesium											P
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Molybdenu											NR
											NR

BLANKS

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: _Q877 Batch No.: 11979_

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											NR
Arsenic	3.4	U	3.4	U	3.4	U	3.4	U			NR
Barium									3.400	U	P
Beryllium											NR
Cadmium	0.4	U	0.4	U	0.4	U	0.4	U			NR
Calcium									0.400	U	P
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	2.2	U	2.2	U	2.2	U	2.2	U			NR
Magnesium									2.200	U	P
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium	4.4	U	4.4	U	4.4	U	4.4	U			NR
Vanadium									4.400	U	P
Zinc											NR
Molybdenu											NR
											NR

BLANKS

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: _Q877 Batch No.: 11979_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic			3.4	U							P
Barium											NR
Beryllium											NR
Cadmium			0.4	U							P
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead			2.2	U							P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium			4.4	U							P
Vanadium											NR
Zinc											NR
Molybdenu											NR

BLANKS

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: _Q877 Batch No.: 11979_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											NR
Arsenic	3.4	U	3.4	U	3.4	U					NR
Barium											P
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	2.2	U	2.2	U	2.2	U					NR
Magnesium											P
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Molybdenu											NR
											NR

Calibration Summary

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: Q877 Batch No.: 11976_

Initial Calibration Source: INORG VENT

Continuing Calibration Source: INORG VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	10000.0	9874.51	98.7	10000.0	9820.65	98.2	9828.08	98.3	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: Q877 Batch No.: 11976_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium				10000.0	9831.98	98.3	9931.80	99.3	P
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR
									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: Q877 Batch No.: 11978_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium	10000.0	9983.92	99.8	10000.0	10012.59	100.1	9986.10	99.9	P
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR
									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: Q877 Batch No.: 11978_

Initial Calibration Source: INORG VENT

Continuing Calibration Source: INORG VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium				10000.0	10107.84	101.1	10020.52	100.2	P
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: Q877 Batch No.: 11979_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic	5000.0	5031.06	100.6	5000.0	5023.77	100.5	4995.57	99.9	P
Barium									NR
Beryllium									NR
Cadmium	2500.0	2504.55	100.2	2500.0	2500.26	100.0	2494.55	99.8	P
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	10000.0	10001.59	100.0	10000.0	9999.74	100.0	9990.66	99.9	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium	5000.0	4979.15	99.6	5000.0	4972.62	99.5	4996.29	99.9	P
Vanadium									NR
Zinc									NR
Molybdenu									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: Q877 Batch No.: 11979_

Initial Calibration Source: INORG VENT

Continuing Calibration Source: INORG VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium				5000.0	5008.35	100.2	5141.94	102.8	P
Beryllium									NR
Cadmium									NR
Calcium				2500.0	2503.12	100.1	2564.74	102.6	P
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium				10000.0	10016.18	100.2	10257.18	102.6	P
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium				5000.0	5020.28	100.4	5091.79	101.8	P
Zinc									NR
Molybdenu									NR
									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: Q877 Batch No.: 11979_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic	5000.0	5018.57	100.4	5000.0	5095.65	101.9	5044.92	100.9	P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	10000.0	9988.56	99.9	10000.0	10054.92	100.5	10012.87	100.1	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

ICP Interference Check Results Summary

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: Q877 Batch No.: 11976

ICP ID Number: TRACE2 TJA61 ICS Source: INORG VENT

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	492151	493225.8	98.6	494559	493670.4	98.7
Antimony		100		102.2	102.2		96.1	96.1
Arsenic		100		100.7	100.7		96.1	96.1
Barium		100		103.8	103.8		104.3	104.3
Beryllium		100		98.3	98.3		97.9	97.9
Cadmium		100		96.4	96.4		96.1	96.1
Calcium	500000	500000	470392	467448.9	93.5	469478	466173.6	93.2
Chromium		100		91.8	91.8		91.6	91.6
Cobalt		100		95.1	95.1		94.8	94.8
Copper		100		103.9	103.9		103.9	103.9
Iron	200000	200000	195863	196631.2	98.3	195743	195702.3	97.9
Lead		100		95.2	95.2		92.8	92.8
Magnesium	500000	500000	520314	522131.2	104.4	522750	522018.4	104.4
Manganese		100		96.9	96.9		96.5	96.5
Mercury								
Nickel		100		94.9	94.9		94.5	94.5
Potassium		10000		10291.9	102.9		10306.6	103.1
Selenium		100		92.8	92.8		93.2	93.2
Silver		100		102.7	102.7		102.9	102.9
Sodium		10000		9214.7	92.1		9265.2	92.7
Thallium		100		96.3	96.3		89.0	89.0
Vanadium		100		103.0	103.0		102.6	102.6
Zinc		100		98.6	98.6		98.3	98.3

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: Q877 Batch No.: 11978

ICP ID Number: TRACE2 TJA61 ICS Source: INORG VENT

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	497214	497514.2	99.5	499934	499916.2	100.0
Antimony		100		98.1	98.1		102.6	102.6
Arsenic		100		100.9	100.9		98.3	98.3
Barium		100		104.9	104.9		106.4	106.4
Beryllium		100		99.0	99.0		100.1	100.1
Cadmium		100		96.4	96.4		96.8	96.8
Calcium	500000	500000	472397	471120.4	94.2	477844	475900.8	95.2
Chromium		100		95.1	95.1		94.0	94.0
Cobalt		100		95.3	95.3		95.3	95.3
Copper		100		102.0	102.0		102.1	102.1
Iron	200000	200000	196729	198164.7	99.1	198789	199985.9	100.0
Lead		100		96.2	96.2		98.4	98.4
Magnesium	500000	500000	524029	525033.0	105.0	527390	527567.2	105.5
Manganese		100		98.4	98.4		98.3	98.3
Mercury								
Nickel		100		96.6	96.6		97.2	97.2
Potassium		10000		10220.4	102.2		10294.4	102.9
Selenium		100		95.5	95.5		95.5	95.5
Silver		100		103.6	103.6		104.3	104.3
Sodium		10000		9141.4	91.4		9224.9	92.2
Thallium		100		93.5	93.5		97.5	97.5
Vanadium		100		104.4	104.4		104.0	104.0
Zinc		100		99.4	99.4		100.3	100.3

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: Q877 Batch No.: 11979

ICP ID Number: TRACE2 TJA61 ICS Source: INORG VENT

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	497946	496037.9	99.2	496116	496016.8	99.2
Antimony		100		96.6	96.6		99.9	99.9
Arsenic		100		100.2	100.2		99.1	99.1
Barium		100		104.8	104.8		105.1	105.1
Beryllium		100		98.8	98.8		99.9	99.9
Cadmium		100		96.5	96.5		96.9	96.9
Calcium	500000	500000	473260	469931.1	94.0	475004	473407.0	94.7
Chromium		100		93.6	93.6		95.1	95.1
Cobalt		100		96.0	96.0		96.3	96.3
Copper		100		102.7	102.7		102.1	102.1
Iron	200000	200000	197230	197869.4	98.9	197864	199284.5	99.6
Lead		100		94.7	94.7		96.7	96.7
Magnesium	500000	500000	525568	524248.4	104.8	524052	524183.5	104.8
Manganese		100		98.0	98.0		98.2	98.2
Mercury								
Nickel		100		97.2	97.2		97.7	97.7
Potassium		10000		10106.2	101.1		10080.7	100.8
Selenium		100		94.7	94.7		94.9	94.9
Silver		100		103.8	103.8		103.8	103.8
Sodium		10000		9248.3	92.5		9117.1	91.2
Thallium		100		90.9	90.9		93.4	93.4
Vanadium		100		103.4	103.4		103.2	103.2
Zinc		100		99.3	99.3		100.3	100.3

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: Q877 Batch No.: 11979

ICP ID Number: TRACE2 TJA61 ICS Source: INORG VENT

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	499436	500173.9	100.0	502024	501819.6	100.4
Antimony		100		102.0	102.0		100.5	100.5
Arsenic		100		98.4	98.4		100.6	100.6
Barium		100		104.4	104.4		104.7	104.7
Beryllium		100		98.5	98.5		99.1	99.1
Cadmium		100		96.7	96.7		96.7	96.7
Calcium	500000	500000	474761	469617.4	93.9	472478	469925.8	94.0
Chromium		100		94.5	94.5		94.7	94.7
Cobalt		100		96.0	96.0		95.5	95.5
Copper		100		105.8	105.8		105.3	105.3
Iron	200000	200000	197735	197559.3	98.8	197039	198602.4	99.3
Lead		100		96.0	96.0		97.2	97.2
Magnesium	500000	500000	526397	526543.4	105.3	526491	528802.9	105.8
Manganese		100		98.8	98.8		98.6	98.6
Mercury								
Nickel		100		96.2	96.2		97.3	97.3
Potassium		10000		10269.6	102.7		10314.6	103.1
Selenium		100		91.4	91.4		93.1	93.1
Silver		100		103.6	103.6		104.7	104.7
Sodium		10000		9296.7	93.0		9461.8	94.6
Thallium								
Vanadium		100		105.5	105.5		105.1	105.1
Zinc		100		98.8	98.8		99.2	99.2

Spike Sample Recovery Summary

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

BSW111501

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: Q877 Batch No.: 11976

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	80-120	504.3620		2.2000	U	500.00	100.9		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

Comments:

LAB SAMPLE NO.

SPIKE SAMPLE RECOVERY

314232MS

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: Q877 Batch No.: 11976

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	80-120	498.9290		2.2000	U	500.00	99.8		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

314232MSD

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: Q877 Batch No.: 11976_

Matrix (soil/water): WATER_ Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	80-120	500.0900		2.2000	U	500.00	100.0		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

BSW111601

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: Q877 Batch No.: 11978

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	80-120	514.2650		2.2000	U	500.00	102.9		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

Comments:

LAB SAMPLE NO.

SPIKE SAMPLE RECOVERY

314252MS

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: Q877 Batch No.: 11978

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	80-120	498.1360		2.2000	U	500.00	99.6		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

Comments:

LAB SAMPLE NO.

SPIKE SAMPLE RECOVERY

314252MSD

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: Q877 Batch No.: 11978

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	80-120	499.4110		2.2000	U	500.00	99.9		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

BSW111601

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: Q877 Batch No.: 11979

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									
Antimony									NR
Arsenic	80-120	1993.8550		3.4000	U	2000.00	99.7		NR
Barium									P
Beryllium									NR
Cadmium	80-120	50.9940		0.4000	U	50.00	102.0		NR
Calcium									P
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	80-120	503.4460		2.2000	U	500.00	100.7		NR
Magnesium									P
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium	80-120	2021.2100		4.4000	U	2000.00	101.1		NR
Vanadium									P
Zinc									NR
Molybdenu									NR
									NR

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

313619MS

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: Q877 Batch No.: 11979

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic	80-120	2029.2730		5.7930		2000.00	101.2		P
Barium									NR
Beryllium									NR
Cadmium	80-120	49.4890		0.4000	U	50.00	99.0		P
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	80-120	497.0640		2.2000	U	500.00	99.4		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium	80-120	1996.4620		4.4000	U	2000.00	99.8		P
Vanadium									NR
Zinc									NR
Molybdenu									NR

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

313619MSD

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: Q877

Batch No.: 11979

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									
Antimony									NR
Arsenic	80-120	2044.6990		5.7930		2000.00	101.9		NR
Barium									P
Beryllium									NR
Cadmium	80-120	49.9420		0.4000	U	50.00	99.9		NR
Calcium									P
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	80-120	501.1490		2.2000	U	500.00	100.2		NR
Magnesium									P
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium	80-120	2007.5880		4.4000	U	2000.00	100.4		NR
Vanadium									P
Zinc									NR
Molybdenu									NR
									NR

Comments:

Sample and MS Duplicate Results Summary

DUPLICATES

LAB SAMPLE NO.

314232D

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: __Q877

Batch No.: 11976_

Matrix (soil/water): WATER

Level (low/med): _LOW__

% Solids for Sample: __0.0

% Solids for Duplicate: ___0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead		2.2000	U	2.2000	U			NR
Magnesium								P
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Molybdenu								NR

DUPLICATES

LAB SAMPLE NO.

314232MS/MS

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: __Q877

Batch No.: 11976_

Matrix (soil/water): WATER

Level (low/med): _LOW__

% Solids for Sample: __0.0

% Solids for Duplicate: ___0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium		498.9290		500.0900		0.2		P
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Molybdenu								NR

DUPLICATES

LAB SAMPLE NO.

314252D

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: Q877

Batch No.: 11978

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

% Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium		2.2000	U	2.2000	U			P
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Molybdenu								NR

DUPLICATES

LAB SAMPLE NO.

314252MS/MS

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: Q877

Batch No.: 11978

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

% Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium		498.1360		499.4110		0.3		P
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Molybdenu								NR

DUPLICATES

LAB SAMPLE NO.

313619D

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: Q877

Batch No.: 11979

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

% Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic	4.0	5.7930		6.9150		17.7		P
Barium								NR
Beryllium								NR
Cadmium		0.4000	U	0.4000	U			P
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead		2.2000	U	2.2000	U			P
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium		4.4000	U	4.4000	U			P
Vanadium								NR
Zinc								NR
Molybdenu								NR

DUPLICATES

LAB SAMPLE NO.

313619MS/MS

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: Q877

Matrix (soil/water): WATER

% Solids for Sample: 0.0

Batch No.: 11979

Level (low/med): LOW

% Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic		2029.2730		2044.6990		0.8		P
Barium								NR
Beryllium								NR
Cadmium		49.4890		49.9420		0.9		P
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead		497.0640		501.1490		0.8		P
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium		1996.4620		2007.5880		0.6		P
Vanadium								NR
Zinc								NR
Molybdenu								NR

Laboratory Control Samples Results Summary

LABORATORY CONTROL SAMPLE

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: __Q877 Batch No.: 11976_

Solid LCS Source:

Aqueous LCS Source: INORG VENT__

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	1000.0	1004.71	100.5						
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Molybdenu									

LABORATORY CONTROL SAMPLE

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: __Q877 Batch No.: 11978_

Solid LCS Source:

Aqueous LCS Source: INORG VENT__

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	1000.0	993.98	99.4						
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Molybdenu									

LABORATORY CONTROL SAMPLE

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: Q877 Batch No.: 11979

Solid LCS Source:

Aqueous LCS Source: INORG VENT

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic	1000.0	979.78	98.0						
Barium									
Beryllium									
Cadmium	1000.0	1017.34	101.7						
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	1000.0	1001.18	100.1						
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium	1000.0	992.06	99.2						
Vanadium									
Zinc									
Molybdenu									

Serial Dilution Summary

ICP SERIAL DILUTION

LAB SAMPLE NO.

314232L

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: _Q877

Batch No.: 11976_

Matrix (soil/water): WATER

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							NR
Iron							NR
Lead	2.20	U	11.00	U			NR
Magnesium							P
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

ICP SERIAL DILUTION

LAB SAMPLE NO.

314252L

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: _Q877

Batch No.: 11978_

Matrix (soil/water): WATER

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							NR
Iron							NR
Lead	2.20	U	11.00	U			NR
Magnesium							P
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

ICP SERIAL DILUTION

LAB SAMPLE NO.

313619L

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: _Q877

Batch No.: 11979_

Matrix (soil/water): WATER

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							
Antimony							NR
Arsenic							NR
Barium	5.79		17.00	U	100.0		P
Beryllium							NR
Cadmium							NR
Calcium	0.40	U	2.00	U			P
Chromium							NR
Cobalt							NR
Copper							NR
Iron							NR
Lead							NR
Magnesium	2.20	U	11.00	U			P
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium	4.40	U	22.00	U			P
Zinc							NR
							NR

Analysis Run Log

ANALYSIS RUN LOG

Lab Name: STL_EDISON_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:11976_

Instrument ID Number: TRACE2 TJA61_ Method: P_

Start Date: 11/16/01 End Date: 11/16/01

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
2CAL-BLK	1.00	0152		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	X
T2CAL1	1.00	0157		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X		X	X		X	X	X	X
T2CAL2	1.00	0203		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
T2CAL3	1.00	0208		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	0213		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ICV/CCV	1.00	0219		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ICB/CCB	1.00	0224		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ICSA	1.00	0229		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ICSAB	1.00	0235		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	0240		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	0246		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
SW111501	1.00	0251		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
BW111501	1.00	0256		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
LCSW	1.00	0302		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
314232D	1.00	0307		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
314232	1.00	0313		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
314232L	1.00	0318		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCV	1.00	0323		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCB	1.00	0329		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
314232MS	1.00	0334		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
14232MSD	1.00	0339		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	0345		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
314229	1.00	0350		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
314230	1.00	0356		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
314231	1.00	0401		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
314233	1.00	0406		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
314234	1.00	0412		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
314235	1.00	0417		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
314236	1.00	0423		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCV	1.00	0428		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCB	1.00	0433		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
314237	1.00	0439		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
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Q877

ANALYSIS RUN LOG

Lab Name: STL_EDISON_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:11976_

Instrument ID Number: TRACE2 TJA61_ Method: P_

Start Date: 11/16/01 End Date: 11/16/01

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
314238	1.00	0444		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
314239	1.00	0449		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
314240	1.00	0455		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
314241	1.00	0500		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
314242	1.00	0506		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
314245	1.00	0511		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
314246	1.00	0516		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
314247	1.00	0522		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
314248	1.00	0527		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	0533		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	0538		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
314249	1.00	0543		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
314250	1.00	0549		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICSA	1.00	0554		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICSAB	1.00	0559		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	0605		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	0610		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-

ANALYSIS RUN LOG

Lab Name: STL_EDISON_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:11978_

Instrument ID Number: TRACE2 TJA61_ Method: P_

Start Date: 11/17/01 End Date: 11/17/01

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
2CAL-BLK	1.00	0037		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	X
T2CAL1	1.00	0043		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X		X	X		X	X	X	X
T2CAL2	1.00	0048		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
T2CAL3	1.00	0054		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	0101		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ICV/CCV	1.00	0106		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ICB/CCB	1.00	0112		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ICSA	1.00	0117		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ICSAB	1.00	0123		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	0128		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	0134		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
SW111601	1.00	0139		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
BW111601	1.00	0144		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
LCSW	1.00	0150		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
314252D	1.00	0155		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
314252	1.00	0201		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
314252L	1.00	0206		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCV	1.00	0212		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCB	1.00	0217		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
314252MS	1.00	0223		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
14252MSD	1.00	0228		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	0233		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
314251	1.00	0239		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
314253	1.00	0244		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
314254	1.00	0250		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
314255	1.00	0255		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
314256	1.00	0301		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
314257	1.00	0306		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
314258	1.00	0312		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCV	1.00	0317		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCB	1.00	0322		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
314259	1.00	0328		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
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Q877

ANALYSIS RUN LOG

Lab Name: STL_EDISON_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:11978_

Instrument ID Number: TRACE2 TJA61_ Method: P_

Start Date: 11/17/01 End Date: 11/17/01

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
314260	1.00	0333		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
314261	1.00	0339		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
314262	1.00	0344		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
314263	1.00	0350		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
314264	1.00	0355		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
314265	1.00	0401		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
314266	1.00	0406		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
314267	1.00	0412		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
314268	1.00	0417		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	0422		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	0428		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
314269	1.00	0433		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
314270	1.00	0439		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICSA	1.00	0444		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICSAB	1.00	0450		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	0455		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	0501		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
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ANALYSIS RUN LOG

Lab Name: STL_EDISON

Contract: _____

Lab Code: 12543_ Case No.: _____

SAS No.: _____ SDG No.:11979_

Instrument ID Number: TRACE2 TJA61_

Method: P_

Start Date: 11/16/01

End Date: 11/17/01

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
2CAL-BLK	1.00	1957		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	X
T2CAL1	1.00	2003		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
T2CAL2	1.00	2009		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
T2CAL3	1.00	2015		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	2023		_	_	X	_	_	X	_	_	_	_	_	X	_	_	_	_	_	_	_	_	X	_	_	_
ICV/CCV	1.00	2028		_	_	X	_	_	X	_	_	_	_	_	X	_	_	_	_	_	_	_	_	X	_	_	_
ICB/CCB	1.00	2034		_	_	X	_	_	X	_	_	_	_	_	X	_	_	_	_	_	_	_	_	X	_	_	_
ICSA	1.00	2040		_	_	X	_	_	X	_	_	_	_	_	X	_	_	_	_	_	_	_	_	X	_	_	_
ICSAB	1.00	2046		_	_	X	_	_	X	_	_	_	_	_	X	_	_	_	_	_	_	_	_	X	_	_	_
ZZZZZZ	1.00	2051		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	2057		_	_	X	_	_	X	_	_	_	_	_	X	_	_	_	_	_	_	_	_	X	_	_	_
SW111601	1.00	2103		_	_	X	_	_	X	_	_	_	_	_	X	_	_	_	_	_	_	_	_	X	_	_	_
BW111601	1.00	2109		_	_	X	_	_	X	_	_	_	_	_	X	_	_	_	_	_	_	_	_	X	_	_	_
LCSW	1.00	2115		_	_	X	_	_	X	_	_	_	_	_	X	_	_	_	_	_	_	_	_	X	_	_	_
313619D	1.00	2120		_	_	X	_	_	X	_	_	_	_	_	X	_	_	_	_	_	_	_	_	X	_	_	_
313619	1.00	2126		_	_	X	_	_		_	_	_	_	_		_	_	_	_	_	_	_	_	X	_	_	_
313619L	1.00	2132		_	_	X	_	_	X	_	_	_	_	_	X	_	_	_	_	_	_	_	_	X	_	_	_
CCV	1.00	2138		_	_	X	_	_	X	_	_	_	_	_	X	_	_	_	_	_	_	_	_	X	_	_	_
CCB	1.00	2143		_	_	X	_	_	X	_	_	_	_	_	X	_	_	_	_	_	_	_	_	X	_	_	_
313619MS	1.00	2149		_	_	X	_	_	X	_	_	_	_	_	X	_	_	_	_	_	_	_	_	X	_	_	_
13619MSD	1.00	2155		_	_	X	_	_	X	_	_	_	_	_	X	_	_	_	_	_	_	_	_	X	_	_	_
ZZZZZZ	1.00	2201		_	_	_	_	_		_	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_
313300	1.00	2207		_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
313301	1.00	2212		_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
313302	1.00	2218		_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
313337	1.00	2224		_	_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
313617	1.00	2230		_	_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_
313618	1.00	2236		_	_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_
313620	1.00	2241		_	_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_
CCV	1.00	2247		_	_	X	_	_	X	_	_	_	_	_	X	_	_	_	_	_	_	_	_	X	_	_	_
CCB	1.00	2253		_	_	X	_	_	X	_	_	_	_	_	X	_	_	_	_	_	_	_	_	X	_	_	_
313621	1.00	2259		_	_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_

ANALYSIS RUN LOG

Lab Name: STL_EDISON

Contract: _____

Lab Code: 12543_ Case No.: _____

SAS No.: _____ SDG No.:11979_

Instrument ID Number: TRACE2 TJA61_

Method: P_

Start Date: 11/16/01

End Date: 11/17/01

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
313622	1.00	2305		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
313928	1.00	2310		–	–	X̄	–	–	–	–	–	–	–	–	X̄	–	–	–	–	–	–	–	–	X̄	–	–	–
314271	1.00	2316		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
314272	1.00	2322		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
314273	1.00	2328		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
314274	1.00	2334		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
314275	1.00	2339		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
314276	1.00	2345		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	2351		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
CCV	1.00	2357		–	–	X̄	–	–	X̄	–	–	–	–	–	X̄	–	–	–	–	–	–	–	–	X̄	–	–	–
CCB	1.00	0002		–	–	X	–	–	X	–	–	–	–	–	X	–	–	–	–	–	–	–	–	X	–	–	–
ZZZZZZ	1.00	0008		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	X	–	–	–
ICSA	1.00	0014		–	–	X̄	–	–	X̄	–	–	–	–	–	X̄	–	–	–	–	–	–	–	–	X̄	–	–	–
ICSAB	1.00	0020		–	–	X	–	–	X	–	–	–	–	–	X	–	–	–	–	–	–	–	–	X	–	–	–
CCV	1.00	0026		–	–	X	–	–	X	–	–	–	–	–	X	–	–	–	–	–	–	–	–	X	–	–	–
CCB	1.00	0032		–	–	X	–	–	X	–	–	–	–	–	X	–	–	–	–	–	–	–	–	X	–	–	–

ANALYSIS RUN LOG

Lab Name: STL_EDISON_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:11979_

Instrument ID Number: TRACE2 TJA61_ Method: P_

Start Date: 11/17/01 End Date: 11/17/01

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
2CAL-BLK	1.00	1207		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	-	X	X	X
T2CAL1	1.00	1211		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	-	X	X	-	-	X	X	X
T2CAL2	1.00	1216		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	-	X	X	-	-	X	X	X
T2CAL3	1.00	1220		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	-	X	X	X
ZZZZZZ	1.00	1227		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICV/CCV	1.00	1231		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICB/CCB	1.00	1236		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICSA	1.00	1240		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICSAB	1.00	1244		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1249		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1253		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313622	3.00	1258		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
314277	1.00	1302		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
314278	1.00	1315		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1319		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	3.00	1324		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	3.00	1328		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1332		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1337		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	3.00	1341		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICSA	1.00	1346		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICSAB	1.00	1350		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1355		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1359		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-

This is the Last Page of the Document

Appendix E
Waste Material Characterization Test Results

EWMI

Environmental Waste Minimization, Inc.
719 Roble Road, Suite 103
Allentown, PA 18109
(610) 264-8280 –*Office*
(610) 264-8580 –*Fax*
e-mail address: cdesanto@ewmi-info.com (*office*)

Dave ~~Bob~~ Pohwat
610 217 5916

Environmental Waste Minimization Inc.

RAPID RESPONSE INC.
An Affiliate of EWMI

Fax Cover Sheet

To:	Eric Swanson	**From:**	**Cathy DeSanto**
Company:	RMT Environmental	**Pages:**	8
Fax:	616-975-1098	**Date:**	12/3/01
Phone:		**CC:**	
Re:			

☐ **Urgent** ☐ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

• **Comments:** This facsimile transmission is intended for the person(s) listed above wful to view the contents after the developed cover sheet has been sent. Please direct the cor sion to the person listed above. If you do not receive all the pages as marked, please contact th ssible.

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Here you go, Eric.

Douglassville Location:
1605 Benjamin Franklin Highway
Douglassville, PA 19518
Phone: (610) 327-8196
Fax: (610) 327-6864

NJ DEP Cert #77925
PA DEP Cert #06-409

Blue Marsh

LABORATORIES • INC

Professional testing for the critical decision

Princeton Location:
267 Wall Street
Princeton, NJ 08540
Phone: (609) 924-5151
Fax: (609) 924-9692

NJ DEP Cert #11198

- CERTIFICATE OF ANALYSIS -

Client: Environmental Waste Minimization,
719 Roble Road
Allentown PA 18109

Lab#: D014651-001
Sample ID: Copper Contaminated Soil
Sample Type: Soil

Attn: David Pohwat
Project: LeCarpenter/ MA Hanna

Collect Date: 13-Nov-01
Collected By: Client

Date Received: *21-Nov-01*
Report Date: *30-Nov-01*

Test Group	Test	Result	Units	PQL	Method	Init / Time	Analysis Date
TCLP Extract							
	TCLP extraction	done			1311	DAG 0625	11/28/01
TCLP-HG							
	Mercury, TCLP	< 0.002	mg/L	0.002	7470A	DAG 0939	11/29/01
TCLP-RCRA1							
	Arsenic, TCLP	< 0.06	mg/L	0.06	6010B	KLH 2150	11/28/01
	Barium, TCLP	0.266	mg/L	0.005	6010B	KLH 2150	11/28/01
	Cadmium, TCLP	< 0.005	mg/L	0.005	6010B	KLH 2150	11/28/01
	Chromium, TCLP	< 0.005	mg/L	0.005	6010B	KLH 2150	11/28/01
	Copper, TCLP	137.163	mg/L	0.005	6010B	KLH 2150	11/28/01
	Lead, TCLP 740 µg/L	← 0.74	mg/L	0.02	6010B	KLH 2150	11/28/01
	Nickel, TCLP	0.309	mg/L	0.005	6010B	KLH 2150	11/28/01
	Silver, TCLP	< 0.005	mg/L	0.005	6010B	KLH 2150	11/28/01
	Selenium, TCLP	< 0.06	mg/L	0.06	6010B	KLH 2150	11/28/01
	Zinc, TCLP	2.767	mg/L	0.005	6010B	KLH 2150	11/28/01
	Tin	< 0.1	mg/L	0.1	6010B	KLH 2150	11/28/01
RCRA10-6010							
	Arsenic	< 5.4	mg/kg	5.4	6010B	KLH 1530	11/30/01
	Barium	46.9	mg/kg	0.5	6010B	KLH 1530	11/30/01
	Cadmium	< 0.5	mg/kg	0.5	6010B	KLH 1530	11/30/01
	Chromium	41.0	mg/kg	0.5	6010B	KLH 1530	11/30/01
	Copper	25056.6	mg/kg	2.7	6010B	KLH 1530	11/30/01
	Lead	339.9	mg/kg	2.2	6010B	KLH 1530	11/30/01
	Nickel	52.8	mg/kg	0.5	6010B	KLH 1530	11/30/01
	Selenium	8.3	mg/kg	5.4	6010B	KLH 1530	11/30/01
	Silver	< 0.5	mg/kg	0.5	6010B	KLH 1530	11/30/01
	Zinc	297.6	mg/kg	0.5	6010B	KLH 1530	11/30/01
	Tin	< 5.4	mg/kg	5.4	6010B	KLH 1530	11/30/01
HG-7471A							
	Mercury	0.33	mg/kg	0.16	7471A	DAG 1205	11/29/01

Douglassville Location:
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Douglassville, PA 19518
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NJ DEP Cert #11198

- CERTIFICATE OF ANALYSIS -

Client: Environmental Waste Minimization,
719 Roble Road
Allentown PA 18109

Attn: David Pohwat

Project: LeCarpenter/ MA Hanna

Date Received: *21-Nov-01*

Lab#: D014651-001

Sample ID: Copper Contaminated Soil

Sample Type: Soil

Collect Date: 13-Nov-01

Collected By: Client

Report Date: *30-Nov-01*

Test Group	Test	Result	Units	PQL	Method	Init / Time	Analysis Date
VOL-8260B-sd							
	Dichlorofluoromethane	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	Chloromethane (Methyl Chloride)	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	Vinyl chloride	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	Bromomethane	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	Chloroethane	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	Trichlorofluoromethane	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	1,1-Dichloroethene	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	Acetone	< 1.13	mg/Kg	1.13	8260B	DRA 0246	11/28/01
	Methylene chloride (Dichlorometh	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	t-Butyl alcohol	< 1.13	mg/Kg	1.13	8260B	DRA 0246	11/28/01
	trans-1,2-dichloroethene	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	Methyl tert-butyl ether (MTBE)	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	1,1-Dichloroethane	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	cis-1,2-Dichloroethene	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	2,2-Dichloropropane	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	2-Butanone (MEK)	< 1.13	mg/Kg	1.13	8260B	DRA 0246	11/28/01
	Bromochloromethane	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	Chloroform	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	1,1,1-Trichloroethane	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	1,1-Dichloropropene	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	Carbon tetrachloride	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	Benzene	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	1,2-Dichloroethane	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	Trichloroethene	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	1,2-Dichloropropane	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	Dibromomethane	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	Bromodichloromethane	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	cis-1,3-Dichloropropene	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	4-Methyl-2-pentanone (MIBK)	< 1.13	mg/Kg	1.13	8260B	DRA 0246	11/28/01

Douglassville Location:
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- CERTIFICATE OF ANALYSIS -

Client: Environmental Waste Minimization,
719 Roble Road
Allentown PA 18109

Attn: David Pohwat

Project: LeCarpenter/ MA Hanna

Date Received: *21-Nov-01*

Lab#: D014651-001

Sample ID: Copper Contaminated Soil

Sample Type: Soil

Collect Date: 13-Nov-01

Collected By: Client

Report Date: *30-Nov-01*

Test Group	Test	Result	Units	PQL	Method	Init / Time	Analysis Date
	Toluene	0.44	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	trans-1,3-dichloropropene	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	1,1,2-Trichloroethane	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	Tetrachloroethene	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	1,3-Dichloropropane	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	2-Hexanone	< 1.13	mg/Kg	1.13	8260B	DRA 0246	11/28/01
	Dibromochloromethane	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	1,2-Dibromoethane	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	Chlorobenzene	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	1,1,1,2-Tetrachloroethane	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	Ethyl benzene	17.59	mg/Kg	1.13	8260B	DRA 0246	11/28/01
	m,p-Xylene	144.44	mg/Kg	1.13	8260B	DRA 0246	11/28/01
	o-Xylene	104.66	mg/Kg	1.13	8260B	DRA 0246	11/28/01
	Styrene	3.06	mg/Kg	1.13	8260B	DRA 0246	11/28/01
	Bromoform	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	Isopropylbenzene (Cumene)	2.81	mg/Kg	1.13	8260B	DRA 0246	11/28/01
	Bromobenzene	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	1,1,2,2-Tetrachloroethane	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	1,2,3-Trichloropropane	1.81	mg/Kg	1.13	8260B	DRA 0246	11/28/01
	N-Propylbenzene	2.05	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	2-Chlorotoluene	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	4-Chlorotoluene	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	1,3,5-Trimethylbenzene	38.58	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	tert-Butylbenzene	0.22	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	1,2,4-Trimethylbenzene	180.31	mg/Kg	1.13	8260B	DRA 0246	11/28/01
	sec-Butylbenzene	3.42	mg/Kg	1.13	8260B	DRA 0246	11/28/01
	1,3-Dichlorobenzene	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	p-Isopropyltoluene	3.68	mg/Kg	1.13	8260B	DRA 0246	11/28/01
	1,4-Dichlorobenzene	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	1,2-Dichlorobenzene	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01

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NJ DEP Cert #11198

- CERTIFICATE OF ANALYSIS -

Client: Environmental Waste Minimization,
719 Roble Road
Allentown PA 18109

Attn: David Pohwat
Project: LeCarpenter/ MA Hanna

Date Received: *21-Nov-01*

Lab#: D014651-001
Sample ID: Copper Contaminated Soil
Sample Type: Soil

Collect Date: 13-Nov-01
Collected By: Client

Report Date: *30-Nov-01*

Test Group	Test	Result	Units	PQL	Method	Init / Time	Analysis Date
	n-Butylbenzene	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	1,2-Dibromo-3-chloropropane	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	1,2,4-Trichlorobenzene	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	Hexachloro-1,3-butadiene	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
	Naphthalene	27.61	mg/Kg	1.13	8260B	DRA 0246	11/28/01
	1,2,3-Trichlorobenzene	< 0.11	mg/Kg	0.11	8260B	DRA 0246	11/28/01
SV-8270C-sd							
	2-Methylphenol	274.	ug/kg	111	8270C	ACM 1528	11/30/01
	4-Methylphenol	< 111.	ug/kg	111.	8270C	ACM 1528	11/30/01
	Benzoic acid	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Aniline	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Benzyl alcohol	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Naphthalene	4153.	ug/kg	111	8270C	ACM 1528	11/30/01
	Phenol	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	2-Chlorophenol	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	1,3-Dichlorobenzene	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	1,4-Dichlorobenzene	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	1,2-Dichlorobenzene	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Hexachloroethane	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Nitrobenzene	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Isophorone	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	1,2,4-Trichlorobenzene	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	N-Nitrosodimethylamine	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Pyridine	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	bis(2-Chloroethyl)ether	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	bis(2-Chloroisopropyl)ether	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	N-Nitroso-Di-N-Propylamine	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	bis(2-Chloroethoxy)methane	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	2,4,5-Trichlorophenol	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	2-Methylnaphthalene	2183.	ug/kg	111	8270C	ACM 1528	11/30/01

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NJ DEP Cert #11198

- CERTIFICATE OF ANALYSIS -

Client: Environmental Waste Minimization,
719 Roble Road
Allentown PA 18109

Lab#: D014651-001
Sample ID: Copper Contaminated Soil
Sample Type: Soil

Attn: David Pohwat
Project: LeCarpenter/ MA Hanna

Collect Date: 13-Nov-01
Collected By: Client

Date Received: *21-Nov-01*
Report Date: *30-Nov-01*

Test Group	Test	Result	Units	PQL	Method	Init / Time	Analysis Date
	4-Chloroaniline	129.	ug/kg	111	8270C	ACM 1528	11/30/01
	2-Nitroaniline	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	3-Nitroaniline	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	4-Nitroaniline	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Acenaphthylene	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	2-Nitrophenol	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	2,4-Dimethylphenol	1627.	ug/kg	111	8270C	ACM 1528	11/30/01
	2,4-Dichlorophenol	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Hexachloro-1,3-butadiene	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Hexachlorocyclopentadiene	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	2-Chloronaphthalene	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	2,6-Dinitrotoluene	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Dimethylphthalate	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Dibenzofuran	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Acenaphthene	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Fluorene	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	2,6-Dichlorophenol	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	4-Chloro-3-methylphenol	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	2,4,6-Trichlorophenol	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	2,4-Dinitrophenol	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	4-Nitrophenol	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	2,3,4,6-Tetrachorophenol	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	2-Methyl-4,6-Dinitrophenol	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Pentachlorophenol	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	2,4-Dinitrotoluene	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Hexachlorobenzene	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Azobenzene	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Diethylphthalate	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	4-Chlorophenyl-phenylether	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	N-Nitrosodiphenylamine	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01

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- CERTIFICATE OF ANALYSIS -

Client: Environmental Waste Minimization,
719 Roble Road
Allentown PA 18109

Attn: David Pohwat

Project: LeCarpenter/ MA Hanna

Date Received: *21-Nov-01*

Lab#: D014651-001

Sample ID: Copper Contaminated Soil

Sample Type: Soil

Collect Date: 13-Nov-01

Collected By: Client

Report Date: *30-Nov-01*

Test Group	Test	Result	Units	PQL	Method	Init / Time	Analysis Date
	1,2-Diphenylhydrazine	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	4-Bromophenyl-phenylether	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Benzidine	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	3,3'-Dichlorobenzidine	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Phenanthrene	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Anthracene	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Carbazole	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Fluoranthene	590.	ug/kg	111	8270C	ACM 1528	11/30/01
	Pyrene	891.	ug/kg	111	8270C	ACM 1528	11/30/01
	Benzo(a)anthracene	308.	ug/kg	111	8270C	ACM 1528	11/30/01
	Chrysene	363.	ug/kg	111	8270C	ACM 1528	11/30/01
	Di-n-butylphthalate	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Butylbenzylphthalate	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Benzo(b)fluoranthene	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Benzo(k)fluoranthene	416.	ug/kg	111	8270C	ACM 1528	11/30/01
	Benzo(a)pyrene	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Indeno(1,2,3-cd)pyrene	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Dibenzo(a,h))anthracene	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Benzo(ghi)perylene	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	Di-n-octylphthalate	< 111.	ug/kg	111	8270C	ACM 1528	11/30/01
	bis(2-Ethylhexyl)phthalate	6627.	ug/kg	111	8270C	ACM 1528	11/30/01
PCB-8082-sd							
	Aroclor-1016	< 0.06	mg/kg	0.06	8082	ACM 1200	11/29/01
	Aroclor-1221	< 0.28	mg/kg	0.28	8082	ACM 1200	11/29/01
	Aroclor-1232	< 0.06	mg/kg	0.06	8082	ACM 1200	11/29/01
	Aroclor-1242	< 0.06	mg/kg	0.06	8082	ACM 1200	11/29/01
	Aroclor-1248	< 0.06	mg/kg	0.06	8082	ACM 1200	11/29/01
	Aroclor-1254	< 0.06	mg/kg	0.06	8082	ACM 1200	11/29/01
	Aroclor-1260	< 0.06	mg/kg	0.06	8082	ACM 1200	11/29/01

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- CERTIFICATE OF ANALYSIS -

Client: Environmental Waste Minimization,
719 Roble Road
Allentown PA 18109

Attn: David Pohwat
Project: LeCarpenter/ MA Hanna

Date Received: *21-Nov-01*

Lab#: D014651-001
Sample ID: Copper Contaminated Soil
Sample Type: Soil

Collect Date: 13-Nov-01
Collected By: Client

Report Date: *30-Nov-01*

Test Group	Test	Result	Units	PQL	Method	Init / Time	Analysis Date
pH-sd							
	pH	6.56	s.u.	0.01	9045C	DLS 1706	11/26/01
FP							
	Flashpoint, closed-cup	>200.	deg F	1.	1010	JAH 0830	11/28/01
Cn,RX-sd							
	Cyanide, reactive	< 6.	mg/kg	6.	SW-846	JAH 1015	11/29/01
Sulfid,RX-sd							
	Sulfide, reactive	< 11.	mg/kg	11.	SW-846	JAH 1015	11/29/01
Solid,%							
	Percent Solids	89.7	%	0.1	D2974	ACT 1530	11/26/01

Reviewed and Approved b

Michael J. McKenna
Laboratory Director

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- CERTIFICATE OF ANALYSIS -

Client: Environmental Waste Minimization
719 Roble Road
Allentown PA 18109

Attn: David Pohwat
Project: LE Carpenter/ MA Hanna

Date Received: *21-Nov-01*

Lab#: D014641-001
Sample ID: Free Product Layer
Sample Type: Oil

Collect Date: 10-Nov-01
Collected By: Client

Report Date: *07-Dec-01*

Test Group	Test	Result	Units	PQL	Method	Init / Time	Analysis Date
TCLP Extract							
	TCLP extraction	done			1311	DAG 0625	11/28/01
TCLP-HG							
	Mercury, TCLP	< 0.002	mg/L	0.002	7470A	DAG 0939	11/29/01
TCLP-PP12							
	Antimony, TCLP	< 0.02	mg/L	0.02	6010B	KLH 2150	11/28/01
	Arsenic, TCLP	< 0.05	mg/L	0.05	6010B	KLH 2150	11/28/01
	Beryllium, TCLP	< 0.004	mg/L	0.004	6010B	KLH 2150	11/28/01
	Cadmium, TCLP	< 0.004	mg/L	0.004	6010B	KLH 2150	11/28/01
	Chromium, TCLP	< 0.004	mg/L	0.004	6010B	KLH 2150	11/28/01
	Copper, TCLP	< 0.004	mg/L	0.004	6010B	KLH 2150	11/28/01
	Lead, TCLP	< 0.02	mg/L	0.02	6010B	KLH 2150	11/28/01
	Nickel, TCLP	< 0.004	mg/L	0.004	6010B	KLH 2150	11/28/01
	Selenium, TCLP	< 0.05	mg/L	0.05	6010B	KLH 2150	11/28/01
	Silver, TCLP	< 0.004	mg/L	0.004	6010B	KLH 2150	11/28/01
	Thallium, TCLP	< 0.05	mg/L	0.05	6010B	KLH 2150	11/28/01
	Zinc, TCLP	0.024	mg/L	0.004	6010B	KLH 2150	11/28/01
	Tin, TCLP	< .05	mg/L	.05	6010B	KLH 2150	11/28/01
FP							
	Flashpoint, closed-cup	L 62.	deg F	1.	1010	JAH 1030	11/30/01
HG-7471A							
	Mercury	0.02	mg/kg	0.02	7471A	DAG 0935	11/29/01
PP12-6010-S							
	Antimony	0.4	mg/kg	0.4	6010B	KLH 1700	12/5/01
	Arsenic	< 1.0	mg/kg	1.0	6010B	KLH 1700	12/5/01
	Beryllium	< 0.1	mg/kg	0.1	6010B	KLH 1700	12/5/01
	Cadmium	< 0.1	mg/kg	0.1	6010B	KLH 1700	12/5/01
	Chromium	0.3	mg/kg	0.1	6010B	KLH 1700	12/5/01
	Copper	0.1	mg/kg	0.1	6010B	KLH 1700	12/5/01
	Lead	< 0.4	mg/kg	0.4	6010B	KLH 1700	12/5/01

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- CERTIFICATE OF ANALYSIS -

Client: Environmental Waste Minimization,
719 Roble Road
Allentown PA 18109

Lab#: D014641-001
Sample ID: Free Product Layer
Sample Type: Oil

Attn: David Pohwat
Project: LE Carpenter/ MA Hanna

Collect Date: 10-Nov-01
Collected By: Client

Date Received: *21-Nov-01*
Report Date: *07-Dec-01*

Test Group	Test	Result	Units	PQL	Method	Init / Time	Analysis Date
	Nickel	< 0.1	mg/kg	0.1	6010B	KLH 1700	12/5/01
	Selenium	1.2	mg/kg	1.0	6010B	KLH 1700	12/5/01
	Silver	< 0.1	mg/kg	0.1	6010B	KLH 1700	12/5/01
	Thallium	< 1.0	mg/kg	1.0	6010B	KLH 1700	12/5/01
	Zinc	< 0.1	mg/kg	0.1	6010B	KLH 1700	12/5/01
	Tin	30.3	mg/kg	0.1	6010B	KLH 1700	12/5/01
Solid,%							
	Percent Solids	76.9	%	0.1	D2974	CMG 1400	11/29/01
VOL-8260B-sd							
	Dichlorofluoromethane	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	Chloromethane (Methyl Chloride)	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	Vinyl chloride	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	Bromomethane	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	Chloroethane	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	Trichlorofluoromethane	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	1,1-Dichloroethene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	Acetone	< 775.19	mg/Kg	775.19	8260B	DRA 0036	12/1/01
	Methylene chloride (Dichlorometh	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	t-Butyl alcohol	< 775.19	mg/Kg	775.19	8260B	DRA 0036	12/1/01
	trans-1,2-dichloroethene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	Methyl tert-butyl ether (MTBE)	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	1,1-Dichloroethane	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	cis-1,2-Dichloroethene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	2,2-Dichloropropane	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	2-Butanone (MEK)	< 775.19	mg/Kg	775.19	8260B	DRA 0036	12/1/01
	Bromochloromethane	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	Chloroform	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	1,1,1-Trichloroethane	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	1,1-Dichloropropene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	Carbon tetrachloride	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01

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- CERTIFICATE OF ANALYSIS -

Client: Environmental Waste Minimization,
719 Roble Road
Allentown PA 18109

Attn: David Pohwat
Project: LE Carpenter/ MA Hanna

Date Received: *21-Nov-01*

Lab#: D014641-001
Sample ID: Free Product Layer
Sample Type: Oil

Collect Date: 10-Nov-01
Collected By: Client

Report Date: *07-Dec-01*

Test Group	Test	Result	Units	PQL	Method	Init / Time	Analysis Date
	Benzene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	1,2-Dichloroethane	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	Trichloroethene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	1,2-Dichloropropane	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	Dibromomethane	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	Bromodichloromethane	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	cis-1,3-Dichloropropene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	4-Methyl-2-pentanone (MIBK)	< 775.19	mg/Kg	775.19	8260B	DRA 0036	12/1/01
	Toluene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	trans-1,3-dichloropropene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	1,1,2-Trichloroethane	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	Tetrachloroethene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	1,3-Dichloropropane	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	2-Hexanone	< 775.19	mg/Kg	775.19	8260B	DRA 0036	12/1/01
	Dibromochloromethane	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	1,2-Dibromoethane	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	Chlorobenzene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	1,1,1,2-Tetrachloroethane	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	Ethyl benzene	0.311	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	m,p-Xylene	0.983	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	o-Xylene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	Styrene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	Bromoform	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	Isopropylbenzene (Cumene)	492.25	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	Bromobenzene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	1,1,2,2-Tetrachloroethane	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	1,2,3-Trichloropropane	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	N-Propylbenzene	296.12	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	2-Chlorotoluene	82.95	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	4-Chlorotoluene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01

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NJ DEP Cert #11198

- CERTIFICATE OF ANALYSIS -

Client: Environmental Waste Minimization,
719 Roble Road
Allentown PA 18109

Lab#: D014641-001
Sample ID: Free Product Layer
Sample Type: Oil

Attn: David Pohwat
Project: LE Carpenter/ MA Hanna

Collect Date: 10-Nov-01
Collected By: Client

Date Received: *21-Nov-01*
Report Date: *07-Dec-01*

Test Group	Test	Result	Units	PQL	Method	Init / Time	Analysis Date
	1,3,5-Trimethylbenzene	471.32	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	tert-Butylbenzene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	1,2,4-Trimethylbenzene	889.15	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	sec-Butylbenzene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	1,3-Dichlorobenzene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	p-Isopropyltoluene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	1,4-Dichlorobenzene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	1,2-Dichlorobenzene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	n-Butylbenzene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	1,2-Dibromo-3-chloropropane	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	1,2,4-Trichlorobenzene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	Hexachloro-1,3-butadiene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	Naphthalene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
	1,2,3-Trichlorobenzene	< 77.52	mg/Kg	77.52	8260B	DRA 0036	12/1/01
SV-8270C-sd							
	2-Methylphenol	160.	ug/kg	130	8270C	ACM 1605	11/30/01
	4-Methylphenol	< 130.	ug/kg	130.	8270C	ACM 1605	11/30/01
	Benzoic acid	743.	ug/kg	130	8270C	ACM 1605	11/30/01
	Aniline	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Benzyl alcohol	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Naphthalene	692.	ug/kg	130	8270C	ACM 1605	11/30/01
	Phenol	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	2-Chlorophenol	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	1,3-Dichlorobenzene	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	1,4-Dichlorobenzene	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	1,2-Dichlorobenzene	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Hexachloroethane	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Nitrobenzene	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Isophorone	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	1,2,4-Trichlorobenzene	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01

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NJ DEP Cert #11198

- CERTIFICATE OF ANALYSIS -

Client: Environmental Waste Minimization,
719 Roble Road
Allentown PA 18109

Attn: David Pohwat

Project: LE Carpenter/ MA Hanna

Date Received: *21-Nov-01*

Lab#: D014641-001

Sample ID: Free Product Layer

Sample Type: Oil

Collect Date: 10-Nov-01

Collected By: Client

Report Date: *07-Dec-01*

Test Group	Test	Result	Units	PQL	Method	Init / Time	Analysis Date
	N-Nitrosodimethylamine	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Pyridine	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	bis(2-Chloroethyl)ether	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	bis(2-Chloroisopropyl)ether	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	N-Nitroso-Di-N-Propylamine	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	bis(2-Chloroethoxy)methane	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	2,4,5-Trichlorophenol	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	2-Methylnaphthalene	490.	ug/kg	130	8270C	ACM 1605	11/30/01
	4-Chloroaniline	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	2-Nitroaniline	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	3-Nitroaniline	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	4-Nitroaniline	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Acenaphthylene	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	2-Nitrophenol	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	2,4-Dimethylphenol	3233.	ug/kg	130	8270C	ACM 1605	11/30/01
	2,4-Dichlorophenol	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Hexachloro-1,3-butadiene	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Hexachlorocyclopentadiene	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	2-Chloronaphthalene	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	2,6-Dinitrotoluene	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Dimethylphthalate	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Dibenzofuran	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Acenaphthene	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Fluorene	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	2,6-Dichlorophenol	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	4-Chloro-3-methylphenol	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	2,4,6-Trichlorophenol	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	2,4-Dinitrophenol	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	4-Nitrophenol	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	2,3,4,6-Tetrachorophenol	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01

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NJ DEP Cert #11198

- CERTIFICATE OF ANALYSIS -

Client: Environmental Waste Minimization,
719 Roble Road
Allentown PA 18109

Lab#: D014641-001
Sample ID: Free Product Layer
Sample Type: Oil

Attn: David Pohwat
Project: LE Carpenter/ MA Hanna

Collect Date: 10-Nov-01
Collected By: Client

Date Received: *21-Nov-01*
Report Date: *07-Dec-01*

Test Group	Test	Result	Units	PQL	Method	Init / Time	Analysis Date
	2-Methyl-4,6-Dinitrophenol	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Pentachlorophenol	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	2,4-Dinitrotoluene	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Hexachlorobenzene	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Azobenzene	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Diethylphthalate	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	4-Chlorophenyl-phenylether	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	N-Nitrosodiphenylamine	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	1,2-Diphenylhydrazine	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	4-Bromophenyl-phenylether	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Benzidine	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	3,3'-Dichlorobenzidine	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Phenanthrene	398.	ug/kg	130	8270C	ACM 1605	11/30/01
	Anthracene	390.	ug/kg	130	8270C	ACM 1605	11/30/01
	Carbazole	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Fluoranthene	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Pyrene	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Benzo(a)anthracene	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Chrysene	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Di-n-butylphthalate	3165.	ug/kg	130	8270C	ACM 1605	11/30/01
	Butylbenzylphthalate	170091.	ug/kg	13004.	8270C	ACM 1605	11/30/01
	Benzo(b)fluoranthene	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Benzo(k)fluoranthene	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Benzo(a)pyrene	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Indeno(1,2,3-cd)pyrene	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Dibenzo(a,h))anthracene	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	Benzo(ghi)perylene	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01
	DI-n-octylphthalate	32250.	ug/kg	13004.	8270C	ACM 1605	11/30/01
	bis(2-Ethylhexyl)phthalate	< 130.	ug/kg	130	8270C	ACM 1605	11/30/01

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- CERTIFICATE OF ANALYSIS -

Client: Environmental Waste Minimization,
719 Roble Road
Allentown PA 18109

Attn: David Pohwat
Project: LE Carpenter/ MA Hanna

Date Received: *21-Nov-01*

Lab#: D014641-001
Sample ID: Free Product Layer
Sample Type: Oil

Collect Date: 10-Nov-01
Collected By: Client

Report Date: *07-Dec-01*

Test Group	Test	Result	Units	PQL	Method	Init / Time	Analysis Date
PCB-8082-sd							
	Aroclor-1016	< 0.65	mg/kg	0.65	8082	ACM 1200	12/4/01
	Aroclor-1221	< 3.25	mg/kg	3.25	8082	ACM 1200	12/4/01
	Aroclor-1232	< 0.65	mg/kg	0.65	8082	ACM 1200	12/4/01
	Aroclor-1242	< 0.65	mg/kg	0.65	8082	ACM 1200	12/4/01
	Aroclor-1248	< 0.65	mg/kg	0.65	8082	ACM 1200	12/4/01
	Aroclor-1254	< 0.65	mg/kg	0.65	8082	ACM 1200	12/4/01
	Aroclor-1260	< 0.65	mg/kg	0.65	8082	ACM 1200	12/4/01
pH-sd							
	pH	3.86	s.u.	0.01	9045C	DLS 1700	11/21/01
Cn,RX-sd							
	Cyanide, reactive	< 7.	mg/kg	7.	SW-846	DAW 1500	11/29/01
Sulfid,RX-sd							
	Sulfide, reactive	7.	mg/kg	7.	SW-846	JAH 1035	11/29/01

Reviewed and Approved b

Michael J. McKenna
Laboratory Director

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Bob in chemist

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NJ DEP Cert #11198

- CERTIFICATE OF ANALYSIS -

Client: Environmental Waste Minimization,
719 Roble Road
Allentown PA 18109

Attn: David Pohwat
Project: LE Carpenter

Date Received: *19-Nov-01*

Lab#: D014582-001
Sample ID: Paint Sludge /putty like Stuff
Sample Type: Soil
go into drum
Collect Date: 15-Nov-01
Collected By:

Report Date: *06-Dec-01*

Test Group	Test	Result	Units	PQL	Method	Init / Time	Analysis Date
TCLP Extract							
	TCLP extraction	done			1311	DAG 0951	11/21/01
TCLP-HG							
	Mercury, TCLP	< 0.002	mg/L	0.002	7470A	DAG 0939	11/29/01
TCLP-RCRA7							
	Arsenic, TCLP	< 0.05	mg/L	0.05	6010B	KLH	12/5/01
	Barium, TCLP	0.779	mg/L	0.004	6010B	KLH	12/5/01
	Cadmium, TCLP	0.306	mg/L	0.004	6010B	KLH	12/3/01
	Chromium, TCLP	0.059	mg/L	0.004	6010B	KLH	12/3/01
	Lead, TCLP	101,000 µg/L ← H 101.00	mg/L	0.18	6010B	KLH	12/5/01
	Selenium, TCLP	< 0.05	mg/L	0.05	6010B	KLH	12/5/01
	Silver, TCLP	< 0.004	mg/L	0.004	6010B	KLH	12/3/01
TCLP-VOL							
	Benzene, TCLP	< 0.010	mg/L	0.01	8260B	DRA 0028	11/27/01
	Carbon tetrachloride, TCLP	< 0.010	mg/L	0.01	8260B	DRA 0028	11/27/01
	Chlorobenzene, TCLP	< 0.010	mg/L	0.01	8260B	DRA 0028	11/27/01
	Chloroform, TCLP	< 0.010	mg/L	0.01	8260B	DRA 0028	11/27/01
	1,4-Dichlorobenzene, TCLP	< 0.010	mg/L	0.01	8260B	DRA 0028	11/27/01
	1,2-Dichloroethane, TCLP	< 0.010	mg/L	0.01	8260B	DRA 0028	11/27/01
	1,1-Dichloroethylene, TCLP	< 0.010	mg/L	0.01	8260B	DRA 0028	11/27/01
	Methyl ethyl ketone, TCLP	< 0.100	mg/L	0.1	8260B	DRA 0028	11/27/01
	Tetrachloroethylene, TCLP	< 0.010	mg/L	0.01	8260B	DRA 0028	11/27/01
	Trichloroethylene, TCLP	< 0.010	mg/L	0.01	8260B	DRA 0028	11/27/01
	Vinyl Chloride, TCLP	< 0.010	mg/L	0.01	8260B	DRA 0028	11/27/01
VOL-8260B-sd							
	Dichlorofluoromethane	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	Chloromethane (Methyl Chloride)	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	Vinyl chloride	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	Bromomethane	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	Chloroethane	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01

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NJ DEP Cert #11198

- CERTIFICATE OF ANALYSIS -

Client: Environmental Waste Minimization,
719 Roble Road
Allentown PA 18109

Lab#: D014582-001
Sample ID: Paint Sludge
Sample Type: Soil

Attn: David Pohwat
Project: LE Carpenter

Collect Date: 15-Nov-01
Collected By: Client

Date Received: *19-Nov-01*
Report Date: *06-Dec-01*

Test Group	Test	Result	Units	PQL	Method	Init / Time	Analysis Date
	Trichlorofluoromethane	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	1,1-Dichloroethene	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	Acetone	< 2.11	mg/Kg	2.11	8260B	DRA 0346	11/28/01
	Methylene chloride (Dichlorometh	0.27	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	t-Butyl alcohol	< 2.11	mg/Kg	2.11	8260B	DRA 0346	11/28/01
	trans-1,2-dichloroethene	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	Methyl tert-butyl ether (MTBE)	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	1,1-Dichloroethane	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	cis-1,2-Dichloroethene	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	2,2-Dichloropropane	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	2-Butanone (MEK)	< 2.11	mg/Kg	2.11	8260B	DRA 0346	11/28/01
	Bromochloromethane	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	Chloroform	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	1,1,1-Trichloroethane	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	1,1-Dichloropropene	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	Carbon tetrachloride	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	Benzene	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	1,2-Dichloroethane	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	Trichloroethene	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	1,2-Dichloropropane	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	Dibromomethane	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	Bromodichloromethane	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	cis-1,3-Dichloropropene	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	4-Methyl-2-pentanone (MIBK)	< 2.11	mg/Kg	2.11	8260B	DRA 0346	11/28/01
	Toluene	6.75	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	trans-1,3-dichloropropene	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	1,1,2-Trichloroethane	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	Tetrachloroethene	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	1,3-Dichloropropane	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	2-Hexanone	< 2.11	mg/Kg	2.11	8260B	DRA 0346	11/28/01

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NJ DEP Cert #11198

- CERTIFICATE OF ANALYSIS -

Client: Environmental Waste Minimization,
719 Roble Road
Allentown PA 18109

Lab#: D014582-001
Sample ID: Paint Sludge
Sample Type: Soil

Attn: David Pohwat
Project: LE Carpenter

Collect Date: 15-Nov-01
Collected By: Client

Date Received: *19-Nov-01*
Report Date: *06-Dec-01*

Test Group	Test	Result	Units	PQL	Method	Init / Time	Analysis Date
	Dibromochloromethane	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	1,2-Dibromoethane	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	Chlorobenzene	1.33	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	1,1,1,2-Tetrachloroethane	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	Ethyl benzene	148.45	mg/Kg	4.22	8260B	DRA 0346	11/28/01
	m,p-Xylene	655.62	mg/Kg	4.22	8260B	DRA 0346	11/28/01
	o-Xylene	79.47	mg/Kg	4.22	8260B	DRA 0346	11/28/01
	Styrene	16.59	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	Bromoform	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	Isopropylbenzene (Cumene)	14.99	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	Bromobenzene	1.59	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	1,1,2,2-Tetrachloroethane	2.99	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	1,2,3-Trichloropropane	0.98	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	N-Propylbenzene	15.65	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	2-Chlorotoluene	23.26	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	4-Chlorotoluene	6.47	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	1,3,5-Trimethylbenzene	8.58	mg/Kg	4.22	8260B	DRA 0346	11/28/01
	tert-Butylbenzene	4.40	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	1,2,4-Trimethylbenzene	16.60	mg/Kg	4.22	8260B	DRA 0346	11/28/01
	sec-Butylbenzene	4.17	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	1,3-Dichlorobenzene	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	p-Isopropyltoluene	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	1,4-Dichlorobenzene	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	1,2-Dichlorobenzene	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	n-Butylbenzene	7.02	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	1,2-Dibromo-3-chloropropane	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	1,2,4-Trichlorobenzene	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	Hexachloro-1,3-butadiene	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	Naphthalene	0.58	mg/Kg	0.21	8260B	DRA 0346	11/28/01
	1,2,3-Trichlorobenzene	< 0.21	mg/Kg	0.21	8260B	DRA 0346	11/28/01

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NJ DEP Cert #11198

- CERTIFICATE OF ANALYSIS -

Client: Environmental Waste Minimization,
719 Roble Road
Allentown PA 18109

Attn: David Pohwat
Project: LE Carpenter

Lab#: D014582-001
Sample ID: Paint Sludge
Sample Type: Soil
Collect Date: 15-Nov-01
Collected By: Client

Date Received: *19-Nov-01*
Report Date: *06-Dec-01*

Test Group	Test	Result	Units	PQL	Method	Init / Time	Analysis Date
FP							
	Flashpoint, closed-cup	108.	deg F	1.	1010	JAH 0915	11/20/01
pH-sd							
	pH	8.42	s.u.	0.01	9045C	JAM 1710	11/19/01
Cn,RX-sd							
	Cyanide, reactive	< 0.06	mg/kg	0.06	SW-846	DAW 1400	11/20/01
Sulfid,RX-sd							
	Sulfide, reactive	< 12.	mg/kg	12.	SW-846	JAH 1115	11/20/01
TCLP-SEMIV							
	o-Cresol, TCLP	< 0.01	mg/L	0.01	8270C	ACM 1200	12/3/01
	m-Cresol, TCLP	< 0.01	mg/L	0.01	8270C	ACM 1200	12/3/01
	p-Cresol, TCLP	< 0.01	mg/L	0.01	8270C	ACM 1200	12/3/01
	2,4-Dinitrotoluene, TCLP	< 0.01	mg/L	0.01	8270C	ACM 1200	12/3/01
	Hexachlorobenzene, TCLP	< 0.01	mg/L	0.01	8270C	ACM 1200	12/3/01
	Hexachloro-1,3-butadiene, TCLP	< 0.01	mg/L	0.01	8270C	ACM 1200	12/3/01
	Hexachloroethane, TCLP	< 0.01	mg/L	0.01	8270C	ACM 1200	12/3/01
	Nitrobenzene, TCLP	< 0.01	mg/L	0.01	8270C	ACM 1200	12/3/01
	Pentachlorophenol, TCLP	< 0.01	mg/L	0.01	8270C	ACM 1200	12/3/01
	Pyridine, TCLP	< 0.01	mg/L	0.01	8270C	ACM 1200	12/3/01
	2,4,5-Trichlorophenol, TCLP	< 0.01	mg/L	0.01	8270C	ACM 1200	12/3/01
	2,4,6-Trichlorophenol, TCLP	< 0.01	mg/L	0.01	8270C	ACM 1200	12/3/01
RCRA7-6010-							
	Arsenic	< 5.8	mg/kg	5.8	6010B	KLH 2150	11/28/01
	Barium	170.6	mg/kg	0.6	6010B	KLH 2150	11/28/01
	Cadmium	45.2	mg/kg	0.6	6010B	KLH 2150	11/28/01
	Chromium	437.6	mg/kg	0.6	6010B	KLH 2150	11/28/01
	Lead	2321.5	mg/kg	2.3	6010B	KLH 2150	11/28/01
	Selenium	< 5.8	mg/kg	5.8	6010B	KLH 2150	11/28/01
	Silver	< 0.6	mg/kg	0.6	6010B	KLH 2150	11/28/01

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Client: Environmental Waste Minimization,
719 Roble Road
Allentown PA 18109

Lab#: D014582-001
Sample ID: Paint Sludge
Sample Type: Soil

Attn: David Pohwat
Project: LE Carpenter

Collect Date: 15-Nov-01
Collected By: Client

Date Received: *19-Nov-01*
Report Date: *06-Dec-01*

Test Group	Test	Result	Units	PQL	Method	Init / Time	Analysis Date
HG-7471A							
	Mercury	0.38	mg/kg	0.17	7471A	DAG 0935	11/29/01
Solid,%							
	Percent Solids	85.3	%	0.1	D2974	ACT 1600	11/20/01

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- CERTIFICATE OF ANALYSIS -

Client: Environmental Waste Minimization,
719 Roble Road
Allentown PA 18109

Attn: David Pohwat
Project: LE Carpenter

Date Received: *19-Nov-01*

Lab#: D014582-002
Sample ID: Lead Contaminated Soil
Sample Type: Soil

Collect Date: 15-Nov-01
Collected By: Client

Report Date: *06-Dec-01*

Test Group	Test	Result	Units	PQL	Method	Init / Time	Analysis Date
TCLP Extract							
	TCLP extraction	done			1311	DAG 0951	11/21/01
TCLP-HG							
	Mercury, TCLP	< 0.002	mg/L	0.002	7470A	DAG 0939	11/29/01
TCLP-RCRA7							
	Arsenic, TCLP	< 0.05	mg/L	0.05	6010B	KLH	12/5/01
	Barium, TCLP	1.930	mg/L	0.004	6010B	KLH	12/5/01
	Cadmium, TCLP	H 1.680	mg/L	0.004	6010B	KLH	12/3/01
	Chromium, TCLP	0.520	mg/L	0.004	6010B	KLH	12/3/01
	Lead, TCLP	H 26.00	mg/L	0.18	6010B	KLH	12/5/01
	Selenium, TCLP	< 0.05	mg/L	0.05	6010B	KLH	12/5/01
	Silver, TCLP	0.005	mg/L	0.004	6010B	KLH	12/3/01
TCLP-VOL							
	Benzene, TCLP	< 0.010	mg/L	0.01	8260B	DRA 0058	11/27/01
	Carbon tetrachloride, TCLP	< 0.010	mg/L	0.01	8260B	DRA 0058	11/27/01
	Chlorobenzene, TCLP	< 0.010	mg/L	0.01	8260B	DRA 0058	11/27/01
	Chloroform, TCLP	< 0.010	mg/L	0.01	8260B	DRA 0058	11/27/01
	1,4-Dichlorobenzene, TCLP	< 0.010	mg/L	0.01	8260B	DRA 0058	11/27/01
	1,2-Dichloroethane, TCLP	< 0.010	mg/L	0.01	8260B	DRA 0058	11/27/01
	1,1-Dichloroethylene, TCLP	< 0.010	mg/L	0.01	8260B	DRA 0058	11/27/01
	Methyl ethyl ketone, TCLP	< 0.100	mg/L	0.1	8260B	DRA 0058	11/27/01
	Tetrachloroethylene, TCLP	< 0.010	mg/L	0.01	8260B	DRA 0058	11/27/01
	Trichloroethylene, TCLP	< 0.010	mg/L	0.01	8260B	DRA 0058	11/27/01
	Vinyl Chloride, TCLP	< 0.010	mg/L	0.01	8260B	DRA 0058	11/27/01
VOL-8260B-sd							
	Dichlorofluoromethane	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	Chloromethane (Methyl Chloride)	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	Vinyl chloride	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	Bromomethane	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	Chloroethane	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01

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- CERTIFICATE OF ANALYSIS -

Client: Environmental Waste Minimization
719 Roble Road
Allentown PA 18109

Attn: David Pohwat
Project: LE Carpenter

Date Received: *19-Nov-01*

Lab#: D014582-002
Sample ID: Lead Contaminated Soil
Sample Type: Soil

Collect Date: 15-Nov-01
Collected By: Client

Report Date: *06-Dec-01*

Test Group	Test	Result	Units	PQL	Method	Init / Time	Analysis Date
	Trichlorofluoromethane	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	1,1-Dichloroethene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	Acetone	< 45.86	mg/Kg	45.86	8260B	DRA 2017	11/29/01
	Methylene chloride (Dichlorometh	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	t-Butyl alcohol	< 45.86	mg/Kg	45.86	8260B	DRA 2017	11/29/01
	trans-1,2-dichloroethene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	Methyl tert-butyl ether (MTBE)	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	1,1-Dichloroethane	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	cis-1,2-Dichloroethene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	2,2-Dichloropropane	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	2-Butanone (MEK)	< 45.86	mg/Kg	45.86	8260B	DRA 2017	11/29/01
	Bromochloromethane	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	Chloroform	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	1,1,1-Trichloroethane	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	1,1-Dichloropropene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	Carbon tetrachloride	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	Benzene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	1,2-Dichloroethane	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	Trichloroethene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	1,2-Dichloropropane	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	Dibromomethane	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	Bromodichloromethane	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	cis-1,3-Dichloropropene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	4-Methyl-2-pentanone (MIBK)	< 45.86	mg/Kg	45.86	8260B	DRA 2017	11/29/01
	Toluene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	trans-1,3-dichloropropene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	1,1,2-Trichloroethane	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	Tetrachloroethene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	1,3-Dichloropropane	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	2-Hexanone	< 45.86	mg/Kg	45.86	8260B	DRA 2017	11/29/01

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NJ DEP Cert #11198

- CERTIFICATE OF ANALYSIS -

Client: Environmental Waste Minimization,
719 Roble Road
Allentown PA 18109

Attn: David Pohwat
Project: LE Carpenter

Date Received: *19-Nov-01*

Lab#: D014582-002
Sample ID: Lead Contaminated Soil
Sample Type: Soil

Collect Date: 15-Nov-01
Collected By: Client

Report Date: *06-Dec-01*

Test Group	Test	Result	Units	PQL	Method	Init / Time	Analysis Date
	Dibromochloromethane	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	1,2-Dibromoethane	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	Chlorobenzene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	1,1,1,2-Tetrachloroethane	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	Ethyl benzene	353.95	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	m,p-Xylene	< 1255.67	mg/Kg	22.93	8260B	DRA 2017	11/29/01
	o-Xylene	110.07	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	Styrene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	Bromoform	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	Isopropylbenzene (Cumene)	7.20	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	Bromobenzene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	1,1,2,2-Tetrachloroethane	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	1,2,3-Trichloropropane	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	N-Propylbenzene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	2-Chlorotoluene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	4-Chlorotoluene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	1,3,5-Trimethylbenzene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	tert-Butylbenzene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	1,2,4-Trimethylbenzene	45.13	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	sec-Butylbenzene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	1,3-Dichlorobenzene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	p-Isopropyltoluene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	1,4-Dichlorobenzene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	1,2-Dichlorobenzene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	n-Butylbenzene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	1,2-Dibromo-3-chloropropane	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	1,2,4-Trichlorobenzene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	Hexachloro-1,3-butadiene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	Naphthalene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01
	1,2,3-Trichlorobenzene	< 4.59	mg/Kg	4.59	8260B	DRA 2017	11/29/01

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- CERTIFICATE OF ANALYSIS -

Client: Environmental Waste Minimization,
719 Roble Road
Allentown PA 18109

Attn: David Pohwat
Project: LE Carpenter

Date Received: *19-Nov-01*

Lab#: D014582-002
Sample ID: Lead Contaminated Soil
Sample Type: Soil

Collect Date: 15-Nov-01
Collected By: Client

Report Date: *06-Dec-01*

Test Group	Test	Result	Units	PQL	Method	Init / Time	Analysis Date
FP							
	Flashpoint, closed-cup	102.	deg F	1.	1010	JAH 0915	11/20/01
pH-sd							
	pH	8.41	s.u.	0.01	9045C	JAM 1710	11/19/01
Cn,RX-sd							
	Cyanide, reactive	< 0.06	mg/kg	0.06	SW-846	AT/JM 1530	12/4/01
Sulfid,RX-sd							
	Sulfide, reactive	< 12.	mg/kg	12.	SW-846	JAH 1115	11/20/01
TCLP-SEMIV							
	o-Cresol, TCLP	< 0.01	mg/L	0.01	8270C	ACM 1200	12/3/01
	m-Cresol, TCLP	< 0.01	mg/L	0.01	8270C	ACM 1200	12/3/01
	p-Cresol, TCLP	< 0.01	mg/L	0.01	8270C	ACM 1200	12/3/01
	2,4-Dinitrotoluene, TCLP	< 0.01	mg/L	0.01	8270C	ACM 1200	12/3/01
	Hexachlorobenzene, TCLP	< 0.01	mg/L	0.01	8270C	ACM 1200	12/3/01
	Hexachloro-1,3-butadiene, TCLP	< 0.01	mg/L	0.01	8270C	ACM 1200	12/3/01
	Hexachloroethane, TCLP	< 0.01	mg/L	0.01	8270C	ACM 1200	12/3/01
	Nitrobenzene, TCLP	< 0.01	mg/L	0.01	8270C	ACM 1200	12/3/01
	Pentachlorophenol, TCLP	< 0.01	mg/L	0.01	8270C	ACM 1200	12/3/01
	Pyridine, TCLP	< 0.01	mg/L	0.01	8270C	ACM 1200	12/3/01
	2,4,5-Trichlorophenol, TCLP	< 0.01	mg/L	0.01	8270C	ACM 1200	12/3/01
	2,4,6-Trichlorophenol, TCLP	< 0.01	mg/L	0.01	8270C	ACM 1200	12/3/01
RCRA7-6010-							
	Arsenic	31.3	mg/kg	6.3	6010B	KLH 1700	12/5/01
	Barium	384.9	mg/kg	0.6	6010B	KLH 1700	12/5/01
	Cadmium	124.5	mg/kg	0.6	6010B	KLH 1700	12/5/01
	Chromium	1805.3	mg/kg	0.6	6010B	KLH 1700	12/5/01
	Lead	247.0	mg/kg	2.5	6010B	KLH 1700	12/5/01
	Selenium	22.2	mg/kg	6.3	6010B	KLH 1700	12/5/01
	Silver	< 0.6	mg/kg	0.6	6010B	KLH 1700	12/5/01

Douglassville Location:
1605 Benjamin Franklin Highway
Douglassville, PA 19518
Phone: (610) 327-8196
Fax: (610) 327-6864

NJ DEP Cert #77925
PA DEP Cert #06-409

Blue Marsh

LABORATORIES • INC

Professional testing for the critical decision

Princeton Location:
267 Wall Street
Princeton, NJ 08540
Phone: (609) 924-5151
Fax: (609) 924-9692

NJ DEP Cert #11198

- CERTIFICATE OF ANALYSIS -

Client: Environmental Waste Minimization
719 Roble Road
Allentown PA 18109

Attn: David Pohwat
Project: LE Carpenter
Date Received: *19-Nov-01*

Lab#: D014582-002
Sample ID: Lead Contaminated Soil
Sample Type: Soil
Collect Date: 15-Nov-01
Collected By: Client
Report Date: *06-Dec-01*

Test Group	Test	Result	Units	PQL	Method	Init / Time	Analysis Date
HG-7471A							
	Mercury	1.15	mg/kg	0.23	7471A	DAG 0935	11/29/01
Solid,%							
	Percent Solids	86.7	%	0.1	D2974	ACT 1600	11/20/01

Reviewed and Approved b

Michael J. McKenna
Laboratory Director

10

RECD: 12/10/2001

EWMI

Environmental Waste Minimization, Inc.
719 Roble Road, Suite 103
Allentown, PA 18109
(610) 264-8280 –*Office*
(610) 264-8580 –*Fax*
e-mail address: dpohwat@ewmi-info.com (*office*)

Environmental Waste Minimization Inc.

RAPID RESPONSE, INC.
An Affiliate of EWMI

Fax Cover Sheet

To:	Nick Clevett	**From:**	**David J. Pohwat**
Company:	RMT	**Pages:**	18
Fax:	312-575-0300	**Date:**	~~Tuesday~~ 12/10/01
Phone:		**CC:**	
Re:			

☐ **Urgent** ☐ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

• **Comments:** This facsimile transmission is intended for the person(s) listed above, therefore, it is unlawful to view the contents after the developed cover sheet has been sent. Please direct the contents of this transmission to the person listed above. If you do not receive all the pages as marked, please contact this office as soon as possible.

Nick more analysis!!
Sorry for delay!!

Dave

① Free product layer is D001 - Flammable @ 62° F!! lots of phthalates

② putty like stuff is high in Lead - Hazardous

③ Soil is Hazardous for Lead + Cadmium Both w/ low flashpoints!!

Appendix F
SPLP Laboratory Results

12/11/2001

SEVERN TRENT SERVICES

STL Edison
777 New Durham Road
Edison, NJ 08817

Tel: 732-549-3900
Fax: 732-549-3679
www.stl-inc.com

Residuals Management Technologies, Inc.
222 South Riverside Plaza
Suite 280
Chicago, IL 60606

Attention: Mr Nick Clevett

Laboratory Results
Job No. R027 - L.E. Carpenter

Dear Mr Clevett:

Enclosed are the results you requested for the following sample(s) received at our laboratory on November 16, 2001.

Lab No.	Client ID	Analysis Required
315359	GPC-15_0.5-1	SPLP Pb TOC
315360	SS-53_3-4	Pb SPLP Pb TOC
315361	SS-54_3-4	Pb SPLP Pb TOC
315362	SS-23_2-3	Pb SPLP Pb TOC
315363	SS-15_8-9	Pb SPLP Pb TOC
315364	SS-17_5-6	Pb SPLP Pb TOC
315365	SS-52_2-3	Pb

SEVERN TRENT SERVICES

STL Edison
777 New Durham Road
Edison, NJ 08817

Tel: 732-549-3900
Fax: 732-549-3679
www.stl-inc.com

Laboratory Results
Job No. R027 - L.E. Carpenter (cont'd)

Lab No.	Client ID	Analysis Required
		TOC
315366	SS-47_2-3	Pb
		TOC
315367	SS-26_2-3	Pb
		TOC
315368	SS-42_1-2	Pb
		TOC
315369	SS-52_10-11	Pb
		TOC
315370	SS-43_0.5-1.5	Pb
		TOC
315371	SS-51_1-2	Pb
		TOC
315372	SS-47_1-2	Pb
		TOC
315373	SS-24_2-3	Pb
		TOC
315374	SS-44_3-4	Pb

SEVERN
TRENT
SERVICES

STL Edison
777 New Durham Road
Edison, NJ 08817

Tel: 732-549-3900
Fax: 732-549-3679
www.stl-inc.com

Laboratory Results
Job No. R027 - L.E. Carpenter (cont'd)

Lab No.	Client ID	Analysis Required
		TOC
315375	SS-16_3-4	Pb
		TOC
315376	SS-41_1-1.5	Pb
		TOC
315377	SS-45_2-3	Pb
		TOC
315378	SS-62_3-4	Pb
		TOC

An invoice for our services is also enclosed. If you have any questions please contact your Project Manager, Joy Kelly, at (732) 549-3900.

Very Truly Yours,

Michael J. Urban
Laboratory Director

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Analytical Results Summary

Client ID: **GPC-15 0.5-1**
Site: **L.E. Carpenter**

Lab Sample No: 315359
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 18.7

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	4430	1.2	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **GPC-15 0.5-1**
Site: **L.E. Carpenter**

Lab Sample No: 315359
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: LEACHATE
Level: LOW

SYNTHETIC PRECIPITATION LEACHING PROCEDURE

METALS ANALYSIS

Analyte	Analytical Result Units: mg/l	Regulatory Level Units: mg/l	Instrument Detection Limit	Qual	M
Lead	0.010		0.0021		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-53 3-4**
Site: **L.E. Carpenter**

Lab Sample No: 315360
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 9.2

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	1550	1.1	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-53 3-4**
Site: **L.E. Carpenter**

Lab Sample No: 315360
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: LEACHATE
Level: LOW

SYNTHETIC PRECIPITATION LEACHING PROCEDURE

METALS ANALYSIS

Analyte	Analytical Result Units: mg/l	Regulatory Level Units: mg/l	Instrument Detection Limit	Qual	M
Lead	0.003		0.0021	B	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-54 3-4**
Site: **L.E. Carpenter**

Lab Sample No: 315361
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 10.7

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	1990	1.1	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-54 3-4**
Site: **L.E. Carpenter**

Lab Sample No: 315361
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: LEACHATE
Level: LOW

SYNTHETIC PRECIPITATION LEACHING PROCEDURE

METALS ANALYSIS

Analyte	Analytical Result Units: mg/l	Regulatory Level Units: mg/l	Instrument Detection Limit	Qual	M
Lead	0.005		0.0021		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-23 2-3**
Site: **L.E. Carpenter**

Lab Sample No: 315362
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 13.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	2540	1.1	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-23 2-3**
Site: **L.E. Carpenter**

Lab Sample No: 315362
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: LEACHATE
Level: LOW

SYNTHETIC PRECIPITATION LEACHING PROCEDURE

METALS ANALYSIS

Analyte	Analytical Result Units: mg/l	Regulatory Level Units: mg/l	Instrument Detection Limit	Qual	M
Lead	0.006		0.0021		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-15 8-9**
Site: **L.E. Carpenter**

Lab Sample No: 315363
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 14.8

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	1540	1.2	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-15 8-9**
Site: **L.E. Carpenter**

Lab Sample No: 315363
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: LEACHATE
Level: LOW

SYNTHETIC PRECIPITATION LEACHING PROCEDURE

METALS ANALYSIS

Analyte	Analytical Result Units: mg/l	Regulatory Level Units: mg/l	Instrument Detection Limit	Qual	M
Lead	0.01		0.0021		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-17 5-6**
Site: **L.E. Carpenter**

Lab Sample No: 315364
Lab Job No: R027

Date Sampled: 11/12/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 17.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	10500	1.3	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-17 5-6**
Site: **L.E. Carpenter**

Lab Sample No: 315364
Lab Job No: R027

Date Sampled: 11/12/01
Date Received: 11/16/01

Matrix: LEACHATE
Level: LOW

SYNTHETIC PRECIPITATION LEACHING PROCEDURE

METALS ANALYSIS

Analyte	Analytical Result Units: mg/l	Regulatory Level Units: mg/l	Instrument Detection Limit	Qual	M
Lead	0.009		0.0021		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-52 2-3**
Site: **L.E. Carpenter**

Lab Sample No: 315365
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 8.8

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	1700	1.2	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-47 2-3**
Site: **L.E. Carpenter**

Lab Sample No: 315366
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 12.9

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	250	1.1	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-26 2-3**
Site: **L.E. Carpenter**

Lab Sample No: 315367
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 12.4

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	316	1.2	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-42 1-2**
Site: **L.E. Carpenter**

Lab Sample No: 315368
Lab Job No: R027

Date Sampled: 11/14/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 9.9

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	275	1.1	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-52 10-11**
Site: **L.E. Carpenter**

Lab Sample No: 315369
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 9.2

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	204	1.1	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-43 0.5-1.5**
Site: **L.E. Carpenter**

Lab Sample No: 315370
Lab Job No: R027

Date Sampled: 11/14/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 13.7

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	231	1.1	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-51 1-2**
Site: **L.E. Carpenter**

Lab Sample No: 315371
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 15.4

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	294	1.1	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-47 1-2**
Site: **L.E. Carpenter**

Lab Sample No: 315372
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 13.9

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	754	1.1	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-24 2-3**
Site: **L.E. Carpenter**

Lab Sample No: 315373
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 10.8

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	549	1.2	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-44 3-4**
Site: **L.E. Carpenter**

Lab Sample No: 315374
Lab Job No: R027

Date Sampled: 11/14/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 10.6

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	234	1.2	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-16 3-4**
Site: **L.E. Carpenter**

Lab Sample No: 315375
Lab Job No: R027

Date Sampled: 11/12/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 16.8

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	411	1.1	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-41 1-1.5**
Site: **L.E. Carpenter**

Lab Sample No: 315376
Lab Job No: R027

Date Sampled: 11/14/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 12.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	495	1.2	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-45 2-3**
Site: **L.E. Carpenter**

Lab Sample No: 315377
Lab Job No: R027

Date Sampled: 11/14/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 8.5

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	181	1.0	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-62 3-4**
Site: **L.E. Carpenter**

Lab Sample No: 315378
Lab Job No: R027

Date Sampled: 11/15/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 13.6

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	667	1.1	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Site: L.E. Carpenter

Lab Job No: R027

Date Received: 11/16/2001
Matrix: SOIL

Date Analyzed: 11/25/2001
QA Batch: 1990

Total Organic Carbon

STL Edison Sample #	Client ID	Sample Date	Percent Moisture	Dilution Factor	Analytical Result Units: mg/kg (Dry Weight)
315359	GPC-15_0.5-1	11/13/2001	18.7	20	375000
315360	SS-53_3-4	11/13/2001	9.2	10.0	54200
315361	SS-54_3-4	11/13/2001	10.7	5.0	92400
315362	SS-23_2-3	11/13/2001	13.0	10.0	108000
315363	SS-15_8-9	11/13/2001	14.8	20	44600
315364	SS-17_5-6	11/12/2001	17.0	20	461000
315365	SS-52_2-3	11/13/2001	8.8	20	49800
315366	SS-47_2-3	11/13/2001	12.9	20	33000
315367	SS-26_2-3	11/13/2001	12.4	10.0	18300
315368	SS-42_1-2	11/14/2001	9.9	20	874000
315369	SS-52_10-11	11/13/2001	9.2	20	22100
315370	SS-43_0.5-1.5	11/14/2001	13.7	20	150000
315371	SS-51_1-2	11/13/2001	15.4	20	54600
315372	SS-47_1-2	11/13/2001	13.9	20	399000
315373	SS-24_2-3	11/13/2001	10.8	20	67200
315374	SS-44_3-4	11/14/2001	10.6	20	62200
315375	SS-16_3-4	11/12/2001	16.8	4.0	51300
315376	SS-41_1-1.5	11/14/2001	12.0	20	631000
315377	SS-45_2-3	11/14/2001	8.5	10.0	28300
315378	SS-62_3-4	11/15/2001	13.6	20	49200

Quantitation Limit for Total Organic Carbon is 100 mg/kg.

General Information

Chain of Custody

R027

STL EDISON

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

PAGE 1 OF ___

Name (for report and Invoice): NICK CLEVETT	Samplers Name (Printed): BRENDAN MCLENNAN / E. SWANSON	Site/Project Identification: LEC
Company: RMT	P.O. #	State (Location of site): NJ: [X] NY: [ ] Other:
		Regulatory Program: CERCLA
Address: 222 S. RIVERSIDE PLAZA SUITE 820	Analysis Turnaround Time: Standard [X]	
City: CHICAGO State: IL 60606	Rush Charges Authorized For: 2 Week [ ] 1 Week [ ] Other [ ]	
Phone: 312-575-0200 Fax: 312-575-0300		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: R027

Sample Identification	Date	Time	Matrix	No. of. Cont.	Total Pb	TCLP LEAD	Total Organic CARBON									Sample Numbers
GPC-15 (0.5-1)	11/13/01	NA	Soil	2	X	X	X									315359
SS-53 (3-4)	"			2	X	X	X									315360
SS-54 (3-4)	"			2	X	X	X									315361
SS-23 (2-3)	"			2	X	X	X									315362
GPC-15 (5-5)	"			2	X	X	X									315363
SS-17 (5-6)	11/13/01			2	X	X	X									315364
SS-52 (2-3)	11/13/01			1	X		X									315365
SS-47 (2-3)	11/13/01			1	X		X									315366
SS-26 (2-3)	11/13/01			1	X		X									315367
SS-42 (1-2)	11/14/01			1	X		X									315368

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____

Soil:	1													
Water:														

Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by	Company	Date / Time	Received by	Company
1)		/	1) Ed Reynolds	STL 11/16/01 9:15
2) Ed Reynolds	STL Edison Ed Reynolds	11/16/01 1025	2)	STL Edison Howard Schulze
3)		/	3)	
4)		/	4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

R027

STL EDISON
777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

PAGE 2 OF ___

Name (for report and invoice): SEE PAGE 1	Samplers Name (Printed): B. McLENNAN / E. SWENSON	Site/Project Identification: LEC
Company	P.O. #	State (Location of site): NJ: ☒ NY: ☐ Other:
Address		Regulatory Program: CERCLA
City State	Analysis Turnaround Time: Standard ☒	
Phone Fax	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: R027

Sample Identification	Date	Time	Matrix	No. of. Cont.	Total Pb	Total Organic Carbon	Sample Numbers
SS-52 (10-11)	11/13	NA	Soil	1	X	X	315369
SS-43 (0.5-1.5)	11/14	↓	↓	↓	X	X	315370
SS-51 (1-2)	11/13				X	X	315371
SS-47 (1-2)	11/13				X	X	315372
SS-24 (2-3)	11/13				X	X	315373
SS-44 (3-4)	11/14/01				X	X	315374
SS-16 (3-4)	11/12/01				X	X	315375
SS-41 (1-1.5)	11/14/01				X	X	315376
SS-45 (2-3)	11/14/01				X	X	315377
SS-62 (3-4)	11/15/01	↓	↓	↓	X	X	315378
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH; 6 = Other _____, 7 = Other _____				Soil:	1		
				Water:			

Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by	Company	Date / Time	Received by	Company
1)		/	1) Ed Reynolds	11/16/01 STL Edison
2) Ed Reynolds	STL Edison Ed Reynolds	11/16/01 1055	2) [illegible]	Howard Schulze
3)		/	3)	
4)		/	4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Laboratory Chronicles

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	R027	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/13/2001
Sample No.:	315359	**Date Received:**	11/16/2001
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/21/2001	Retana, Camille	11/22/2001	Helders, Eric	12007
TCLP LEAD	11/28/2001	Sanagavarapu, Suguna	11/28/2001	Helders, Eric	12035

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: R027 **Site:** L.E. Carpenter

Client: Residuals Management Technologies, Inc. **Date Sampled:** 11/13/2001

Sample No.: 315360 **Date Received:** 11/16/2001

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/21/2001	Retana, Camille	11/22/2001	Helders, Eric	12007
TCLP LEAD	11/28/2001	Sanagavarapu, Suguna	11/28/2001	Helders, Eric	12035

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	R027	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/13/2001
Sample No.:	315361	**Date Received:**	11/16/2001
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/21/2001	Retana, Camille	11/22/2001	Helders, Eric	12007
TCLP LEAD	11/28/2001	Sanagavarapu, Suguna	11/28/2001	Helders, Eric	12035

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	R027	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/13/2001
Sample No.:	315362	**Date Received:**	11/16/2001
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/21/2001	Retana, Camille	11/22/2001	Helders, Eric	12007
TCLP LEAD	11/28/2001	Sanagavarapu, Suguna	11/28/2001	Helders, Eric	12035

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

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08817

Job No:	R027	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/13/2001
Sample No.:	315363	**Date Received:**	11/16/2001
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/21/2001	Retana, Camille	11/22/2001	Helders, Eric	12007
TCLP LEAD	11/28/2001	Sanagavarapu, Suguna	11/28/2001	Helders, Eric	12035

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

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08817

Job No:	R027	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/12/2001
Sample No.:	315364	**Date Received:**	11/16/2001
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/21/2001	Retana, Camille	11/22/2001	Helders, Eric	12007
TCLP LEAD	11/28/2001	Sanagavarapu, Suguna	11/28/2001	Helders, Eric	12035

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	R027	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/13/2001
Sample No.:	315365	**Date Received:**	11/16/2001
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/21/2001	Retana, Camille	11/22/2001	Helders, Eric	12007

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	R027	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/13/2001
Sample No.:	315366	**Date Received:**	11/16/2001
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/21/2001	Retana, Camille	11/22/2001	Helders, Eric	12007

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
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Job No:	R027	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/13/2001
Sample No.:	315367	**Date Received:**	11/16/2001
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/21/2001	Retana, Camille	11/22/2001	Helders, Eric	12007

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
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Job No:	R027	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/14/2001
Sample No.:	315368	**Date Received:**	11/16/2001
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/21/2001	Retana, Camille	11/22/2001	Helders, Eric	12007

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	R027	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/13/2001
Sample No.:	315369	**Date Received:**	11/16/2001
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/21/2001	Retana, Camille	11/22/2001	Helders, Eric	12007

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	R027	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/14/2001
Sample No.:	315370	**Date Received:**	11/16/2001
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/21/2001	Retana, Camille	11/22/2001	Helders, Eric	12007

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
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Job No:	R027	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/13/2001
Sample No.:	315371	**Date Received:**	11/16/2001
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/21/2001	Retana, Camille	11/22/2001	Helders, Eric	12007

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	R027	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/13/2001
Sample No.:	315372	**Date Received:**	11/16/2001
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/21/2001	Retana, Camille	11/22/2001	Helders, Eric	12007

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
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Job No:	R027	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/13/2001
Sample No.:	315373	**Date Received:**	11/16/2001
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/21/2001	Retana, Camille	11/22/2001	Helders, Eric	12007

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

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Job No:	R027	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/14/2001
Sample No.:	315374	**Date Received:**	11/16/2001
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/21/2001	Retana, Camille	11/22/2001	Helders, Eric	12007

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

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Job No:	R027	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/12/2001
Sample No.:	315375	**Date Received:**	11/16/2001
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/21/2001	Retana, Camille	11/22/2001	Helders, Eric	12007

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

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Job No:	R027	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/14/2001
Sample No.:	315376	**Date Received:**	11/16/2001
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/21/2001	Retana, Camille	11/22/2001	Helders, Eric	12007

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

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08817

Job No:	R027	**Site:**	L.E. Carpenter
Client:	Residuals Management Technologies, Inc.	**Date Sampled:**	11/14/2001
Sample No.:	315377	**Date Received:**	11/16/2001
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/21/2001	Retana, Camille	11/22/2001	Helders, Eric	12007

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: R027 **Site:** L.E. Carpenter

Client: Residuals Management Technologies, Inc. **Date Sampled:** 11/15/2001

Sample No.: 315378 **Date Received:** 11/16/2001

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	11/21/2001	Retana, Camille	11/22/2001	Helders, Eric	12007

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: R027 **Site:** L.E. Carpenter

Client: Residuals Management Technologies, Inc.

WET CHEM

TCLP PREP

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
SOLID							
315359	11/13/2001	11/16/2001			11/26/2001	Villadarez, Gerson	
315360	11/13/2001	11/16/2001			11/26/2001	Villadarez, Gerson	
315361	11/13/2001	11/16/2001			11/26/2001	Villadarez, Gerson	
315362	11/13/2001	11/16/2001			11/26/2001	Villadarez, Gerson	
315363	11/13/2001	11/16/2001			11/26/2001	Villadarez, Gerson	
315364	11/12/2001	11/16/2001			11/26/2001	Villadarez, Gerson	

TOC

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
SOLID							
315359	11/13/2001	11/16/2001			11/25/2001	Vu, Huan	1990
315360	11/13/2001	11/16/2001			11/25/2001	Vu, Huan	1990
315361	11/13/2001	11/16/2001			11/25/2001	Vu, Huan	1990
315362	11/13/2001	11/16/2001			11/27/2001	Vu, Huan	1990
315363	11/13/2001	11/16/2001			11/26/2001	Vu, Huan	1990
315364	11/12/2001	11/16/2001			11/25/2001	Vu, Huan	1990
315365	11/13/2001	11/16/2001			11/26/2001	Vu, Huan	1990
315366	11/13/2001	11/16/2001			11/26/2001	Vu, Huan	1990
315367	11/13/2001	11/16/2001			11/26/2001	Vu, Huan	1990
315368	11/14/2001	11/16/2001			11/27/2001	Vu, Huan	1990
315369	11/13/2001	11/16/2001			11/26/2001	Vu, Huan	1990

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: R027 **Site:** L.E. Carpenter

Client: Residuals Management Technologies, Inc.

WET CHEM

TOC

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
SOLID							
315370	11/14/2001	11/16/2001			11/27/2001	Vu, Huan	1990
315371	11/13/2001	11/16/2001			11/26/2001	Vu, Huan	1990
315372	11/13/2001	11/16/2001			11/27/2001	Vu, Huan	1990
315373	11/13/2001	11/16/2001			11/26/2001	Vu, Huan	1990
315374	11/14/2001	11/16/2001			11/26/2001	Vu, Huan	1990
315375	11/12/2001	11/16/2001			11/25/2001	Vu, Huan	1990
315376	11/14/2001	11/16/2001			11/27/2001	Vu, Huan	1990
315377	11/14/2001	11/16/2001			11/26/2001	Vu, Huan	1990
315378	11/15/2001	11/16/2001			11/26/2001	Vu, Huan	1990

Methodology Review

Analytical Methodology Summary

Volatile Organics:

Unless otherwise specified, water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Drinking water samples are analyzed by EPA Method 524.2. Solid samples are analyzed for volatile organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8260B. Water samples are analyzed for volatile organics by purge and trap GC/PID and GC/ELCD as specified in EPA Methods 601 and 602. Solid samples are analyzed by GC/PID and GC/ELCD in accordance with SW-846, 3rd Edition Method 8021B.

Acid and Base/Neutral Extractable Organics:

Unless otherwise specified, water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8270C.

GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8260B and 8270C. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatile, 15 for base/neutrals and 10 for acid extractables).

Organochlorine Pesticides and PCBs:

Unless otherwise specified, water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8081A for organochlorine pesticides and Method 8082 for PCBs.

Total Petroleum Hydrocarbons:

Water samples are analyzed for petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples are prepared for analysis by soxhlet extraction consistent with the March 1990 N.J. DEP "Remedial Investigation Guide" Appendix A, page 52, and analyzed by U.S. EPA Method 418.1

Metals Analysis:

Metals analyses are performed by any of four techniques specified by a Method Code provided on each data report page, as follows:

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)

A - Flame Atomic Absorption

F - Furnace Atomic Absorption

CV - Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in "Methods for Chemical Analysis of Water and Wastewater" (EPA 600/4-79-020). Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition); samples are digested according to Method 3050B "Acid Digestion of Soil, Sediments and Sludges."

Specific method references for ICP analyses are water Method 200.7 and solid Method 6010B. Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1 and solid Method 7471A. Other specific Atomic Absorption method references are as follows:

	Water Test Method		Solid Test Method	
Element	Flame	Furnace	Flame	Furnace
Aluminum	202.1	202.2	7020	--
Antimony	204.1	204.2	7040	7041
Arsenic	--	206.2	--	7060
Barium	208.1	--	7080	--
Beryllium	210.1	210.2	7090	7091
Cadmium	213.1	213.2	7130	7131
Calcium	215.1	--	7140	--
Chromium, Total	218.1	218.2	7190	7191
Chromium, (+6)	218.4	218.5	7197	7195
Cobalt	219.1	219.2	7200	7201
Copper	220.1	220.2	7210	--
Iron	236.1	236.2	7380	--
Lead	239.1	239.2	7420	7421
Magnesium	242.1	--	7450	--
Manganese	243.1	243.2	7460	--
Nickel	249.1	249.2	7520	--
Potassium	258.1	--	7610	--
Selenium	--	270.2	--	7740
Silver	272.1	272.2	7760	--
Sodium	273.1	--	7770	--
Tin	283.1	283.2	7870	--
Thallium	279.1	279.2	7840	7841
Vanadium	286.1	286.2	7910	7911
Zinc	289.1	289.2	7950	--

Cyanide:

Water samples are analyzed for cyanide using EPA Method 335.3. Cyanide is determined in solid samples as specified in the EPA Contract Laboratory Program IFB dated July 1988, revised February 1989.

Phenols:

Water samples are analyzed for total phenols using EPA Method 420.2. Total phenols are determined in solid samples by preparing the sample as outlined in the EPA Contract Laboratory Program IFB for cyanide, followed by a phenols determination using EPA Method 420.1.

Cleanup of Semivolatile Extracts:

Upon request Method 3611B Alumina Column Cleanup and/or Method 3650B Acid-Base Partition Cleanup are performed to improve detection limits by the removal of saturated hydrocarbon interferences.

Hazardous Waste Characteristics:

Samples for hazardous waste characteristics are analyzed as specified in the U.S. EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition). Specific method references are as follows:

Ignitability	- Method 1020A
Corrosivity	- Water pH Method 9040B Soil pH Method 9045C
Reactivity	- Chapter 7, Section 7.3.3 and 7.3.4 respectively for hydrogen cyanide and hydrogen sulfide release
Toxicity	- TCLP Method 1311

Miscellaneous Parameters:

Additional analyses performed on both aqueous and solid samples are in accordance with methods published in the following references:

- Test Methods for Evaluating Solid Wastes, SW-846 3rd Edition, November 1986.
- Standard Methods for the Examination of Water and Wastewater, 17th Edition.
- Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, 1979.

Data Reporting Qualifiers

ORGANIC DATA REPORTING QUALIFIERS

ND - The compound was not detected at the indicated concentration.

J - Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

INORGANIC DATA REPORTING QUALIFIERS (SW-846 METHODS ONLY)

ND - The compound was not detected at the indicated concentration.

B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit.

E - The reported value is estimated because of the presence of interference. See explanatory note in the Nonconformance Summary if the problem applies to all of the samples or on the individual Inorganic Analysis Data Sheet if the problem is isolated.

M - Duplicate injection precision not met on the Furnace Atomic Absorption analysis.

N - The spiked sample recovery is not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

* - Duplicate Analysis is not within control limits.

W - Post digestion spike for Furnace Atomic Absorption analysis is out of control.

\+ - Correlation coefficient for MSA is less than 0.995.

M Column - Method Qualifiers

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP).

A - Flame Atomic Absorption Spectroscopy (FAA).

F - Graphite Furnace Atomic Absorption Spectroscopy (GFAA).

CV - Cold Vapor Atomic Absorption Spectroscopy.

Non-Conformance Summary

NON-CONFORMANCE SUMMARY

STL Edison Job Number: R027

Volatile Organics Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested ____; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

Base/Neutral and/or Acid Extractable Organics:

All data conforms with method requirements ✓; or
Analysis was not requested ____; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

PCBs and/or Organochlorine Pesticides:

All data conforms with method requirements ✓; or
Analysis was not requested ____; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

Non-conformance Summary, Page 2 of 2
STL Edison Job Number: R027

Metals Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

Total Petroleum Hydrocarbons:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

General Chemistry/Disposal Parameters:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

Signature of
Laboratory Manager: [signature] Date: 12-11-01

Metals Forms and Data

Analytical Results Summary

Client ID: **GPC-15 0.5-1**
Site: **L.E. Carpenter**

Lab Sample No: 315359
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 18.7

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	4430	1.2	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **GPC-15 0.5-1**
Site: **L.E. Carpenter**

Lab Sample No: 315359
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: LEACHATE
Level: LOW

SYNTHETIC PRECIPITATION LEACHING PROCEDURE

METALS ANALYSIS

Analyte	Analytical Result Units: mg/l	Regulatory Level Units: mg/l	Instrument Detection Limit	Qual	M
Lead	0.010		0.0021		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-53 3-4**
Site: **L.E. Carpenter**

Lab Sample No: 315360
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 9.2

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	1550	1.1	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-53 3-4**
Site: **L.E. Carpenter**

Lab Sample No: 315360
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: LEACHATE
Level: LOW

SYNTHETIC PRECIPITATION LEACHING PROCEDURE

METALS ANALYSIS

Analyte	Analytical Result Units: mg/l	Regulatory Level Units: mg/l	Instrument Detection Limit	Qual	M
Lead	0.003		0.0021	B	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-54 3-4**
Site: **L.E. Carpenter**

Lab Sample No: 315361
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 10.7

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	1990	1.1	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-54 3-4**
Site: **L.E. Carpenter**

Lab Sample No: 315361
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: LEACHATE
Level: LOW

SYNTHETIC PRECIPITATION LEACHING PROCEDURE

METALS ANALYSIS

Analyte	Analytical Result Units: mg/l	Regulatory Level Units: mg/l	Instrument Detection Limit	Qual	M
Lead	0.005		0.0021		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-23 2-3**
Site: **L.E. Carpenter**

Lab Sample No: 315362
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 13.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	2540	1.1	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-23 2-3**
Site: **L.E. Carpenter**

Lab Sample No: 315362
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: LEACHATE
Level: LOW

SYNTHETIC PRECIPITATION LEACHING PROCEDURE

METALS ANALYSIS

Analyte	Analytical Result Units: mg/l	Regulatory Level Units: mg/l	Instrument Detection Limit	Qual	M
Lead	0.006		0.0021		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-15 8-9**
Site: **L.E. Carpenter**

Lab Sample No: 315363
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 14.8

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	1540	1.2	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-15 8-9**
Site: **L.E. Carpenter**

Lab Sample No: 315363
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: LEACHATE
Level: LOW

SYNTHETIC PRECIPITATION LEACHING PROCEDURE

METALS ANALYSIS

Analyte	Analytical Result Units: mg/l	Regulatory Level Units: mg/l	Instrument Detection Limit	Qual	M
Lead	0.01		0.0021		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-17 5-6**
Site: **L.E. Carpenter**

Lab Sample No: 315364
Lab Job No: R027

Date Sampled: 11/12/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 17.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	10500	1.3	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-17 5-6**
Site: **L.E. Carpenter**

Lab Sample No: 315364
Lab Job No: R027

Date Sampled: 11/12/01
Date Received: 11/16/01

Matrix: LEACHATE
Level: LOW

SYNTHETIC PRECIPITATION LEACHING PROCEDURE

METALS ANALYSIS

Analyte	Analytical Result Units: mg/l	Regulatory Level Units: mg/l	Instrument Detection Limit	Qual	M
Lead	0.009		0.0021		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-52 2-3**
Site: **L.E. Carpenter**

Lab Sample No: 315365
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 8.8

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	1700	1.2	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-47 2-3**
Site: **L.E. Carpenter**

Lab Sample No: 315366
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 12.9

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	250	1.1	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-26 2-3**
Site: **L.E. Carpenter**

Lab Sample No: 315367
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 12.4

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	316	1.2	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-42 1-2**
Site: **L.E. Carpenter**

Lab Sample No: 315368
Lab Job No: R027

Date Sampled: 11/14/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 9.9

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	275	1.1	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-52 10-11**
Site: **L.E. Carpenter**

Lab Sample No: 315369
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 9.2

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	204	1.1	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-43 0.5-1.5**
Site: **L.E. Carpenter**

Lab Sample No: 315370
Lab Job No: R027

Date Sampled: 11/14/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 13.7

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	231	1.1	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-51 1-2**
Site: **L.E. Carpenter**

Lab Sample No: 315371
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 15.4

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	294	1.1	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-47 1-2**
Site: **L.E. Carpenter**

Lab Sample No: 315372
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 13.9

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	754	1.1	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-24 2-3**
Site: **L.E. Carpenter**

Lab Sample No: 315373
Lab Job No: R027

Date Sampled: 11/13/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 10.8

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	549	1.2	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-44 3-4**
Site: **L.E. Carpenter**

Lab Sample No: 315374
Lab Job No: R027

Date Sampled: 11/14/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 10.6

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	234	1.2	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-16 3-4**
Site: **L.E. Carpenter**

Lab Sample No: 315375
Lab Job No: R027

Date Sampled: 11/12/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 16.8

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	411	1.1	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-41 1-1.5**
Site: **L.E. Carpenter**

Lab Sample No: 315376
Lab Job No: R027

Date Sampled: 11/14/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 12.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	495	1.2	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-45 2-3**
Site: **L.E. Carpenter**

Lab Sample No: 315377
Lab Job No: R027

Date Sampled: 11/14/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 8.5

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	181	1.0	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SS-62 3-4**
Site: **L.E. Carpenter**

Lab Sample No: 315378
Lab Job No: R027

Date Sampled: 11/15/01
Date Received: 11/16/01

Matrix: SOLID
Level: LOW
% Moisture: 13.6

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	667	1.1	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Blank Results Summary

BLANKS

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: _R027 Batch No.: 12007_

Preparation Blank Matrix (soil/water): SOIL_

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	2.1	U	2.1	U	2.1	U	2.1	U	0.207	U	P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
elenium											NR
lver											NR
dium											NR
allium											NR
nadium											NR
nc											NR
ybdenu											NR

R027

BLANKS

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: _R027 Batch No.: 12007_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead			2.1	U							P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Molybdenu											NR

BLANKS

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: _R027 Batch No.: 12035_

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper	2.7	U	2.7	U	2.7	U	2.7	U	2.700	U	P
Iron											NR
Lead	2.1	U	2.1	U	2.1	U	2.1	U	2.070	U	P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
											NR

BLANKS

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: _R027 Batch No.: 12035_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper			2.7	U	2.7	U	2.7	U			P
Iron											NR
Lead			2.1	U	2.1	U	2.1	U			P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR

Calibration Summary

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: R027 Batch No.: 12007_

Initial Calibration Source: INORG VENT

Continuing Calibration Source: INORG VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	10000.0	9520.18	95.2	10000.0	9372.93	93.7	9340.00	93.4	NR
Magnesium									P
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR
									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: R027 Batch No.: 12007_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium				10000.0	9285.40	92.9	9325.78	93.3	P
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: R027 Batch No.: 12035_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron	12500.0	12868.52	102.9	12500.0	13287.67	106.3	12739.11	101.9	P
Lead									NR
Magnesium	10000.0	10096.01	101.0	10000.0	10050.96	100.5	9864.97	98.6	P
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: R027 Batch No.: 12035_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron				12500.0	12712.36	101.7	12976.29	103.8	P
Lead									NR
Magnesium				10000.0	9870.56	98.7	10074.59	100.7	P
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: R027 Batch No.: 12035_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron				12500.0	13129.14	105.0	13458.54	107.7	P
Lead									NR
Magnesium				10000.0	10077.99	100.8	10146.24	101.5	P
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

ICP Interference Check Results Summary

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: R027 Batch No.: 12007

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	507645	498473.9	99.7	496880	486303.6	97.3
Antimony		100		100.4	100.4		97.2	97.2
Arsenic		100		104.7	104.7		105.8	105.8
Barium		100		112.8	112.8		110.6	110.6
Beryllium		100		102.7	102.7		102.8	102.8
Cadmium		100		108.1	108.1		106.3	106.3
Calcium	500000	500000	511125	496865.4	99.4	504678	490313.9	98.1
Chromium		100		105.1	105.1		102.2	102.2
Cobalt		100		101.9	101.9		99.2	99.2
Copper		100		113.5	113.5		113.0	113.0
Iron	200000	200000	209953	208123.0	104.1	200222	198079.1	99.0
Lead		100		97.5	97.5		96.5	96.5
Magnesium	500000	500000	547795	538934.9	107.8	537261	526909.5	105.4
Manganese		100		106.7	106.7		106.3	106.3
Mercury								
Nickel		100		102.9	102.9		100.1	100.1
Potassium		10000		9526.3	95.3		9324.2	93.2
Selenium		100		94.7	94.7		89.8	89.8
Silver		100		110.6	110.6		108.1	108.1
Sodium		10000		10916.9	109.2		10860.3	108.6
Thallium		100		96.3	96.3		87.9	87.9
Vanadium		100		101.3	101.3		105.1	105.1
Zinc		100		84.7	84.7		85.2	85.2

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: R027 Batch No.: 12035

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	504540	520844.8	104.2	484579	503713.7	100.7
Antimony		100		108.4	108.4		103.7	103.7
Arsenic		100		109.4	109.4		103.8	103.8
Barium		100		112.1	112.1		110.5	110.5
Beryllium		100		103.3	103.3		101.0	101.0
Cadmium		100		97.5	97.5		93.3	93.3
Calcium	500000	500000	487325	499980.9	100.0	482168	494371.6	98.9
Chromium		100		103.4	103.4		102.6	102.6
Cobalt		100		101.4	101.4		98.7	98.7
Copper		100		107.9	107.9		101.7	101.7
Iron	200000	200000	202179	207392.0	103.7	196178	202604.9	101.3
Lead		100		100.0	100.0		98.0	98.0
Magnesium	500000	500000	538884	555044.8	111.0	518762	535637.0	107.1
Manganese		100		106.6	106.6		104.5	104.5
Mercury								
Nickel		100		103.4	103.4		99.0	99.0
Potassium		10000		9847.5	98.5		9100.7	91.0
Selenium		100		98.4	98.4		96.5	96.5
Silver		100		111.4	111.4		107.5	107.5
Sodium		10000		11067.9	110.7		10637.8	106.4
Thallium		100		100.1	100.1		97.7	97.7
Vanadium		100		104.9	104.9		104.9	104.9
Zinc		100		109.7	109.7		103.8	103.8

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: R027 Batch No.: 12035

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000				507542	523745.1	104.7
Antimony		100					105.5	105.5
Arsenic		100					107.4	107.4
Barium		100					114.7	114.7
Beryllium		100					103.2	103.2
Cadmium		100					95.9	95.9
Calcium	500000	500000				494163	498987.7	99.8
Chromium		100					103.5	103.5
Cobalt		100					101.6	101.6
Copper		100					111.9	111.9
Iron	200000	200000				198682	202891.4	101.4
Lead		100					103.2	103.2
Magnesium	500000	500000				544386	554547.9	110.9
Manganese		100					107.8	107.8
Mercury								
Nickel		100					103.5	103.5
Potassium		10000					10086.2	100.9
Selenium		100					96.0	96.0
Silver		100					113.6	113.6
Sodium		10000					11292.2	112.9
Thallium		100					93.5	93.5
Vanadium		100					107.8	107.8
Zinc		100					113.0	113.0

Spike Sample Recovery Summary

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

BSS112101

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: R027 Batch No.: 12007

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	75-125	47.7360		0.2070	U	50.00	95.5		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

315367MS

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: R027 Batch No.: 12007_

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 87.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead		384.8350		316.1621		57.08	120.3		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

315367MSD

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: R027 Batch No.: 12007

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 87.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead		433.5274		316.1621		57.08	205.6		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

BSL112801

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: R027

Batch No.: 12035

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper	75-125	259.8530		2.7000	U	250.00	103.9		P
Iron									NR
Lead	75-125	496.9670		2.0700	U	500.00	99.4		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

315021MS

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: R027 Batch No.: 12035

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper	75-125	1120.2560		853.2820		250.00	106.8		P
Iron									NR
Lead	75-125	505.5910		2.0700	U	500.00	101.1		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

315021MSD

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: R027

Batch No.: 12035

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper	75-125	1105.0820		853.2820		250.00	100.7		P
Iron									NR
Lead	75-125	501.2260		2.0700	U	500.00	100.2		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR

Comments:

Sample and MS Duplicate Results Summary

DUPLICATES

LAB SAMPLE NO.

LCSS-248-D

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: R027

Batch No.: 12007_

Matrix (soil/water): SOIL_

Level (low/med): LOW

% Solids for Sample: 100.0

% Solids for Duplicate: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead		184.2436		182.4778		1.0		P
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Molybdenu								NR

DUPLICATES

LAB SAMPLE NO.

315367D

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: __R027

Batch No.: 12007_

Matrix (soil/water): SOIL_

Level (low/med): _LOW__

% Solids for Sample: _87.6

% Solids for Duplicate: __87.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead		316.1621		474.6969		40.1	*	P
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Molybdenu								NR

DUPLICATES

LAB SAMPLE NO.

315367MS/MS

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: R027

Batch No.: 12007

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 87.6

% Solids for Duplicate: 87.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead		384.8350		433.5274		11.9		P
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Molybdenu								NR

DUPLICATES

LAB SAMPLE NO.

315021D

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: R027

Batch No.: 12035

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

% Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron		853.2820		855.2620		0.2		P
Lead								NR
Magnesium		2.0700	U	2.3280	B	200.0		P
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR

DUPLICATES

LAB SAMPLE NO.

315021MS/MS

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: R027

Batch No.: 12035_

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

% Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron		1120.2560		1105.0820		1.4		P
Lead								NR
Magnesium		505.5910		501.2260		0.9		P
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR

Laboratory Control Samples Results Summary

LABORATORY CONTROL SAMPLE

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: __R027 _____ Batch No.: 12007_

Solid LCS Source: ERA

Aqueous LCS Source:

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead				186.0	184.2		139.0	233.0	99.0
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Molybdenu									

Serial Dilution Summary

ICP SERIAL DILUTION

LAB SAMPLE NO.

315367L

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: _R027 Batch No.: 12007_

Matrix (soil/water): SOIL_ Level (low/med): LOW__

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							NR
Iron							NR
Lead							NR
Magnesium	553.92		545.92		1.4		P
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

ICP SERIAL DILUTION

LAB SAMPLE NO.

315021L

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: R027

Batch No.: 12035

Matrix (soil/water): WATER

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper	853.28		866.87		1.6		P
Iron							NR
Lead	2.07	U	10.97	B			P
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

Analysis Run Log

ANALYSIS RUN LOG

Lab Name: STL_EDISON_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:12007_

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 11/22/01 End Date: 11/22/01

Lab Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
1CAL-BLK	1.00	1711		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	X
T1CAL1	1.00	1716		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
T1CAL2	1.00	1722		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
T1CAL3	1.00	1727		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	1733																_									
ICV/CCV	1.00	1738													X												
ICB/CCB	1.00	1743													X												
ICSA	1.00	1749													X												
ICSAB	1.00	1754													X												
ZZZZZZ	1.00	1800																									
ZZZZZZ	1.00	1805																									
SS112101	1.00	1810													X												
BS112101	1.00	1816													X												
LCSS-248	2.00	1821													X												
SS-248-D	2.00	1827													X												
315367D	5.00	1832													X												
315367	5.00	1837													X												
CCV	1.00	1843													X												
CCB	1.00	1848													X												
315367L	5.00	1854													X												
315367MS	5.00	1859													X												
15367MSD	5.00	1904													X												
ZZZZZZ	5.00	1910																									
315359	5.00	1915													X												
315360	5.00	1921													X												
315361	5.00	1926													X												
315362	5.00	1931													X												
315363	5.00	1937													X												
315364	5.00	1942													X												
CCV	1.00	1948													X												
CCB	1.00	1953													X												
315365	5.00	1958													X												

ANALYSIS RUN LOG

Lab Name: STL_EDISON_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:12007_

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 11/22/01 End Date: 11/22/01

Lab Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
315366	5.00	2004		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
315368	5.00	2009		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
315369	5.00	2015		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
315370	5.00	2020		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
315371	5.00	2025		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
315372	5.00	2031		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
315373	5.00	2036		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
315374	5.00	2042		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
315375	5.00	2047		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	2053		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	2058		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
315376	5.00	2103		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
315377	5.00	2109		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
315378	5.00	2114		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICSA	1.00	2120		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICSAB	1.00	2125		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	2130		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	2136		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-

ANALYSIS RUN LOG

Lab Name: STL_EDISON_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:12035_

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 11/28/01 End Date: 11/28/01

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	
1CAL-BLK	1.00	1523		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
T1CAL1__	1.00	1529		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X		X	X		X	X	X	_
T1CAL2__	1.00	1534		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	_
T1CAL3__	1.00	1539		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_
ZZZZZZ__	1.00	1545																_									_
ICV/CCV_	1.00	1550		_	_	_	_	_	_	_	_	_	X	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ICB/CCB_	1.00	1555		_	_	_	_	_	_	_	_	_	X	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ICSA____	1.00	1601		_	_	_	_	_	_	_	_	_	X	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ICSAB___	1.00	1606		_	_	_	_	_	_	_	_	_	X	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ__	1.00	1611		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ__	1.00	1616		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
SL112801	1.00	1622		_	_	_	_	_	_	_	_	_	X	_	X	_	_	_	_	_	_	_	_	_	_	_	_
BL112801	1.00	1627		_	_	_	_	_	_	_	_	_	X	_	X	_	_	_	_	_	_	_	_	_	_	_	_
315021D_	1.00	1632		_	_	_	_	_	_	_	_	_	X	_	X	_	_	_	_	_	_	_	_	_	_	_	_
315021__	1.00	1637		_	_	_	_	_	_	_	_	_	X	_	X	_	_	_	_	_	_	_	_	_	_	_	_
315021L_	1.00	1643		_	_	_	_	_	_	_	_	_	X	_	X	_	_	_	_	_	_	_	_	_	_	_	_
315021MS	1.00	1648		_	_	_	_	_	_	_	_	_	X	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCV_____	1.00	1653		_	_	_	_	_	_	_	_	_	X	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCB_____	1.00	1659		_	_	_	_	_	_	_	_	_	X	_	X	_	_	_	_	_	_	_	_	_	_	_	_
15021MSD	1.00	1704		_	_	_	_	_	_	_	_	_	X	_	X	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ__	1.00	1709		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
315036__	1.00	1714		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
315071__	1.00	1720		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
315087__	1.00	1725		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
315117__	1.00	1730		_	_	_	_	_	_	_	_	_	X	_	X	_	_	_	_	_	_	_	_	_	_	_	_
315121__	1.00	1736		_	_	_	_	_	_	_	_	_	X	_	X	_	_	_	_	_	_	_	_	_	_	_	_
315493__	1.00	1741		_	_	_	_	_	_	_	_	_	X	_	X	_	_	_	_	_	_	_	_	_	_	_	_
315359__	1.00	1746		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
315360__	1.00	1751		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCV_____	1.00	1757		_	_	_	_	_	_	_	_	_	X	_	X	_	_	_	_	_	_	_	_	_	_	_	_
CCB_____	1.00	1802		_	_	_	_	_	_	_	_	_	X	_	X	_	_	_	_	_	_	_	_	_	_	_	_
315361__	1.00	1807		_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_	_	_	_	_	_	_
				_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

ANALYSIS RUN LOG

Lab Name: STL_EDISON_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:12035_

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 11/28/01 End Date: 11/28/01

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	
315362	1.00	1813		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
315363	1.00	1818		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
315364	1.00	1823		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
316864	1.00	1828		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
TB112601	1.00	1834		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
TB112701	1.00	1839		–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–
ICSA	1.00	1844		–	–	–	–	–	–	–	–	–	X	–	X	–	–	–	–	–	–	–	–	–	–	–	–
ICSAB	1.00	1850		–	–	–	–	–	–	–	–	–	X	–	X	–	–	–	–	–	–	–	–	–	–	–	–
CCV	1.00	1855		–	–	–	–	–	–	–	–	–	X	–	X	–	–	–	–	–	–	–	–	–	–	–	–
CCB	1.00	1900		–	–	–	–	–	–	–	–	–	X	–	X	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1905		–	–	–	–	–	–	–	–	–	X	–	X	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1911		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	2.00	1916		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	2.00	1921		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	5.00	1927		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	5.00	1932		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	5.00	1937		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	5.00	1943		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	5.00	1948		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	5.00	1953		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCV	1.00	1958		–	–	–	–	–	–	–	–	–	X	–	X	–	–	–	–	–	–	–	–	–	–	–	–
CCB	1.00	2004		–	–	–	–	–	–	–	–	–	X	–	X	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	5.00	2009		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	5.00	2014		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	5.00	2020		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	5.00	2025		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	5.00	2030		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	5.00	2036		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	2041		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	5.00	2046		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	5.00	2051		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	5.00	2057		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
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ANALYSIS RUN LOG

Lab Name: STL_EDISON_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:12035_

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 11/28/01 End Date: 11/28/01

EPA Sample No.	D/F	Time	% R	Analytes																									
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN			
CCV	1.00	2102		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
CCB	1.00	2107		–	–	–	–	–	–	–	–	–	X	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	
ZZZZZZ	5.00	2113		–	–	–	–	–	–	–	–	–	X	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	
ZZZZZZ	5.00	2118		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
ZZZZZZ	5.00	2123		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
ICSA	1.00	2129		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
ICSAB	1.00	2134		–	–	–	–	–	–	–	–	–	X	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	
CCV	1.00	2139		–	–	–	–	–	–	–	–	–	X	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	
CCB	1.00	2144		–	–	–	–	–	–	–	–	–	X	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	
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General Chemistry Forms

Analytical Results Summary

Site: L.E. Carpenter

Lab Job No: R027

Date Received: 11/16/2001
Matrix: SOIL

Date Analyzed: 11/25/2001
QA Batch: 1990

Total Organic Carbon

STL Edison Sample #	Client ID	Sample Date	Percent Moisture	Dilution Factor	Analytical Result Units: mg/kg (Dry Weight)
315359	GPC-15_0.5-1	11/13/2001	18.7	20	375000
315360	SS-53_3-4	11/13/2001	9.2	10.0	54200
315361	SS-54_3-4	11/13/2001	10.7	5.0	92400
315362	SS-23_2-3	11/13/2001	13.0	10.0	108000
315363	SS-15_8-9	11/13/2001	14.8	20	44600
315364	SS-17_5-6	11/12/2001	17.0	20	461000
315365	SS-52_2-3	11/13/2001	8.8	20	49800
315366	SS-47_2-3	11/13/2001	12.9	20	33000
315367	SS-26_2-3	11/13/2001	12.4	10.0	18300
315368	SS-42_1-2	11/14/2001	9.9	20	874000
315369	SS-52_10-11	11/13/2001	9.2	20	22100
315370	SS-43_0.5-1.5	11/14/2001	13.7	20	150000
315371	SS-51_1-2	11/13/2001	15.4	20	54600
315372	SS-47_1-2	11/13/2001	13.9	20	399000
315373	SS-24_2-3	11/13/2001	10.8	20	67200
315374	SS-44_3-4	11/14/2001	10.6	20	62200
315375	SS-16_3-4	11/12/2001	16.8	4.0	51300
315376	SS-41_1-1.5	11/14/2001	12.0	20	631000
315377	SS-45_2-3	11/14/2001	8.5	10.0	28300
315378	SS-62_3-4	11/15/2001	13.6	20	49200

Quantitation Limit for Total Organic Carbon is 100 mg/kg.

QA Summary

TOTAL ORGANIC CARBON

Matrix: SOLID

Lab Sample No.: 315374

QA Batch No: 1990

Lab Job No.: R027

Laboratory Blank	
Blank Conc. (mg/kg)	Quant Limit (mg/kg)
ND	100

Sample Replicates				
#1 (mg/kg)	#2 (mg/kg)	#3 (mg/kg)	#4 (mg/kg)	AVG (mg/kg)
62200	61900	56300	53700	58525

Standard Deviation	%RSD	Control Limits
4208.23	7.19	26.9

LCS				
Vendor Name	Lot #	Mean Value (mg/kg)	Range (mg/kg)	Measured Value (mg/kg)
ERA	1109	5680	4297-7070	5740

This is the Last Page of the Document

Appendix G
Lead-Compound Study Test Results

33587 Walker Road, Avon Lake, Ohio 44012

Polymer
Diagnostics Inc.

FT-IR and EDX Examination of Industrial Contaminant Samples Removed from Soil.

Prepared for
RMT
527 Plymouth Road
Plymouth Meeting, PA 19462

December 13, 2001

Client Contact: Eric Swanson
PDI Project Coordinator: Jim Isner
PDI Project #: 12552
Sample Received: 12/6/01

A2LA Accreditation Certificate Nos.: Mechanical: 514-01 Chemical: 0514-02

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800-438-2335 www.polymerdiagnostics.com 440-930-1644 fax

Summary

Various samples of industrial contaminant samples that were removed from soil were analyzed by EDX and FT-IR spectroscopy.

Sample Identification

PDI Identification	Submitter Identification	Sample Description
12552-1	A13, Time: 12:15	Multicolor sample, consisting of greenish, blues and pink flakes.
12552-2	A14, Time: 12:17	Sample consisting of large yellow chunks, some containing black specs.
12552-3	A15, Time: 12:19	Very large wet black chunks.
12552-4	A16, Time: 12:21	Very large wet black chunks, some containing yellow specs.

Energy Dispersive Xray (EDX)

Energy Dispersive Xray (EDX) spectrometry was used to scan the above described samples. The samples were put into a sample cup holder that is covered on the end by mylar film. This allows the samples to be analyzed as they were received, without any sample preparation.

The EDX spectrum of sample A13 (PDI 12552-1) is very similar to a plasticized PVC sample that is stabilized with a lead stabilizer system. The form of lead cannot be determined by this technique. The elements detected in this scan, confirms the presence of chlorine, titanium, iron, calcium, chromium, and zinc. These elements are common elements associated with PVC compounds. (Figure 1)

The EDX spectrum of sample A14 (PDI 12552-2) contains chlorine, calcium, titanium, chromium, iron, zinc, and lead. Again, these are common elements associated with PVC compound. (Figure 2)

The EDX spectrum of sample A15 (PDI 12552-3) contains chlorine, calcium, titanium, iron, copper, zinc, and lead. (Figure 3)

The EDX spectrum of sample A16 (PDI 12552-4) contains chlorine, calcium, titanium, chromium, iron, copper, zinc, and lead. (Figure 4)

Fourier Transform Infrared Spectrometry (FT-IR)

Three of the four industrial contaminant samples, removed from soil and analyzed by EDX spectroscopy, also were examined by Fourier Transform infrared (FT-IR) spectroscopy. In each case, a small particle of the sample material was pressed into a thin film in a diamond anvil optical cell and the FT-IR spectrum of the film collected.

The FT-IR spectrum of a blue chunk in Sample A-13 (Figure 5) appeared to be that of a flexible, vinyl compound. Poly(vinyl chloride), titanium dioxide, calcium carbonate, and a dialkyl orthophthalate plasticizer were detected. The presence of a lead stabilizer in the sample could not be confirmed from this spectrum.

The FT-IR spectrum of the mustard yellow colored material in Sample A-14 (Figure 6) indicated that calcium carbonate, zinc stearate, a dialkyl orthophthalate plasticizer, and perhaps an unidentified silicate material were present in this sample.

The final sample analyzed by FT-IR spectroscopy was some of the black material in Sample A-16. The spectrum of this material (Figure 7) showed that calcium carbonate was the major component. What was believed to be antimony oxide also was detected. However, the EDX analysis did not detect antimony. Low levels of zinc stearate and an unidentified ester-bearing component also were identified. The sloping baseline of the spectrum was consistent with metallic contamination in the sample.

Although a distinct lead stabilizer was not identified from any of the FT-IR spectra, collected for this project, this does not mean that a lead stabilizer is not present in the samples. The lead ingredient(s) simply could not be detected by this analysis. The EDX results confirm that the lead is incorporated into each of the materials examined.

The samples appeared wet visually. No water in the samples was detected by FT-IR spectroscopy. The wet appearance was due to the presence of phthalate plasticizer in the samples.

Kim Thomas
R&D Chemist
XRF/ICP Spectroscopy
440-930-1134

Philip Bak
Adv. R&D Chemist
FT-IR Spectroscopy
440-930-1161

12/07/101 07:3

SPECTRACE INSTRUMENTS

SLM 12552-1

SPECTRUM : 552-1

A B

FIGURE 1

TUBE VOLTAGE : 15 KV

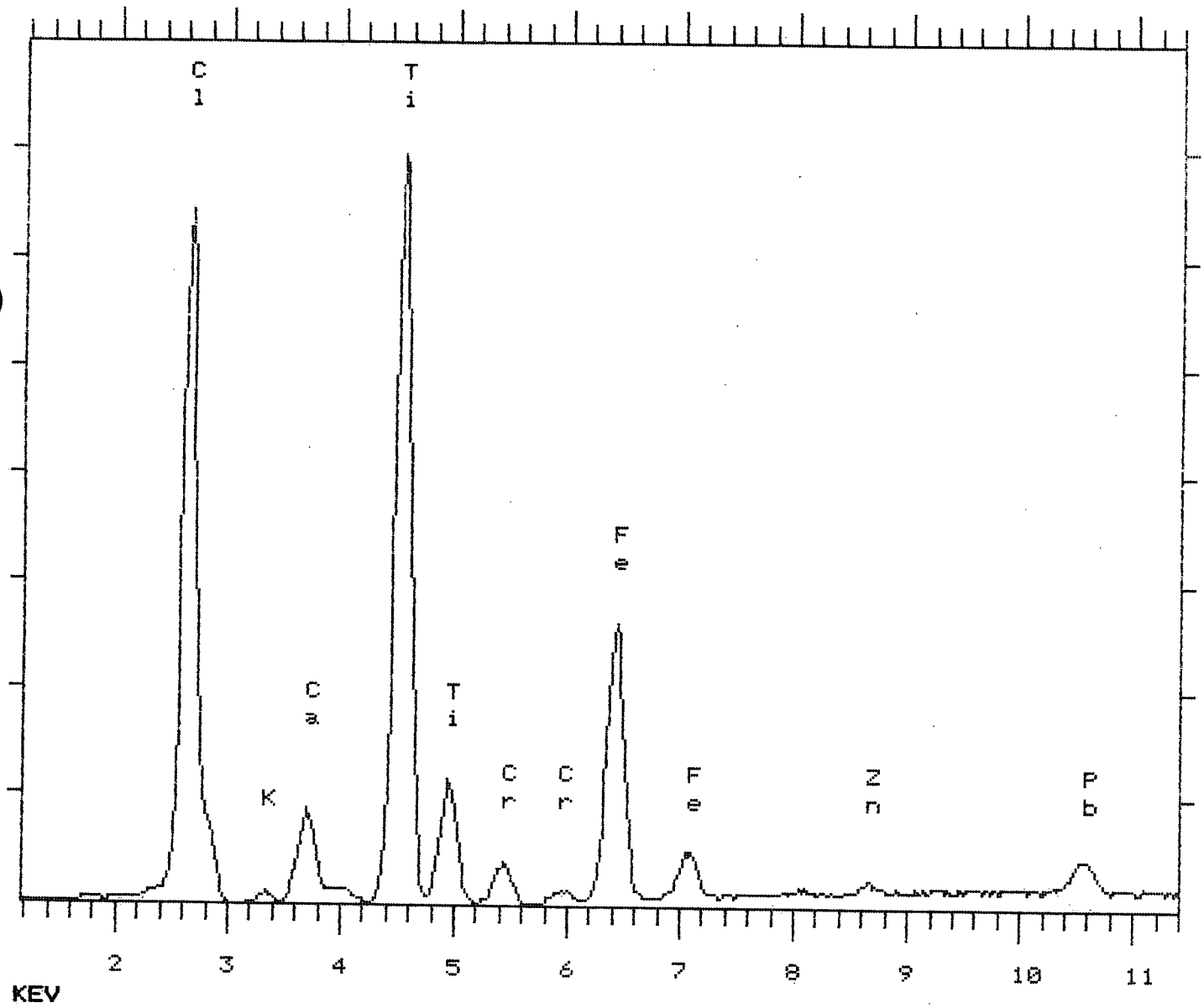
TUBE CURRENT : 0.04 mA

ATMOSPHERE : VACUUM

FILTER USED : CELLULOSE

LIVETIME : 100 SEC

F.S. = 16K



12/07/101 07:4

SPECTRACE INSTRUMENTS

SLIM 552-2

SPECTRUM : 552-2

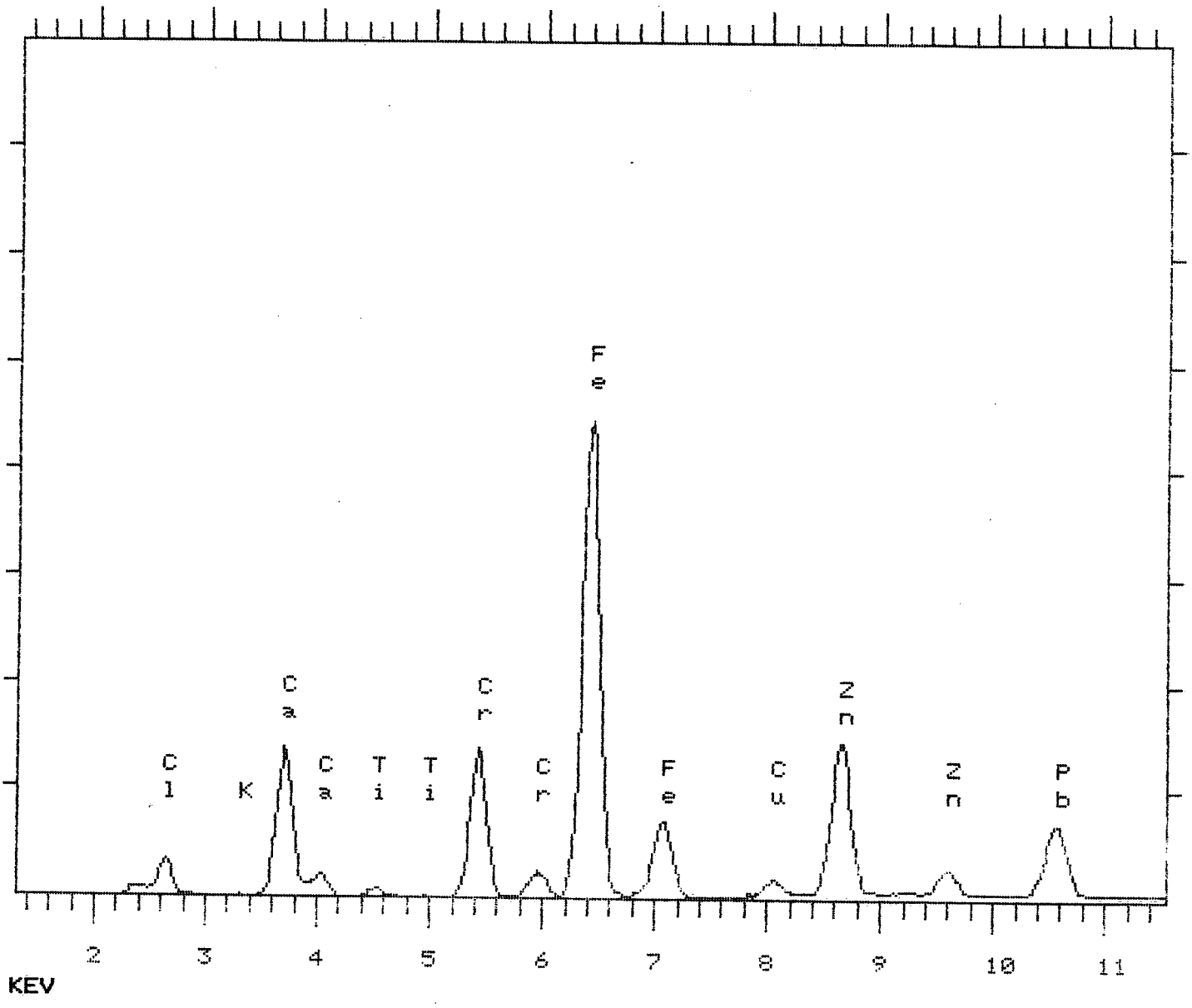
A-14

FIGURE 2

TUBE VOLTAGE : 15 KV
TUBE CURRENT : 0.04 mA
ATMOSPHERE : VACUUM

FILTER USED : CELLULOSE
LIVETIME : 100 SEC

F.S. = 32K



SPECTRACE INSTRUMENTS

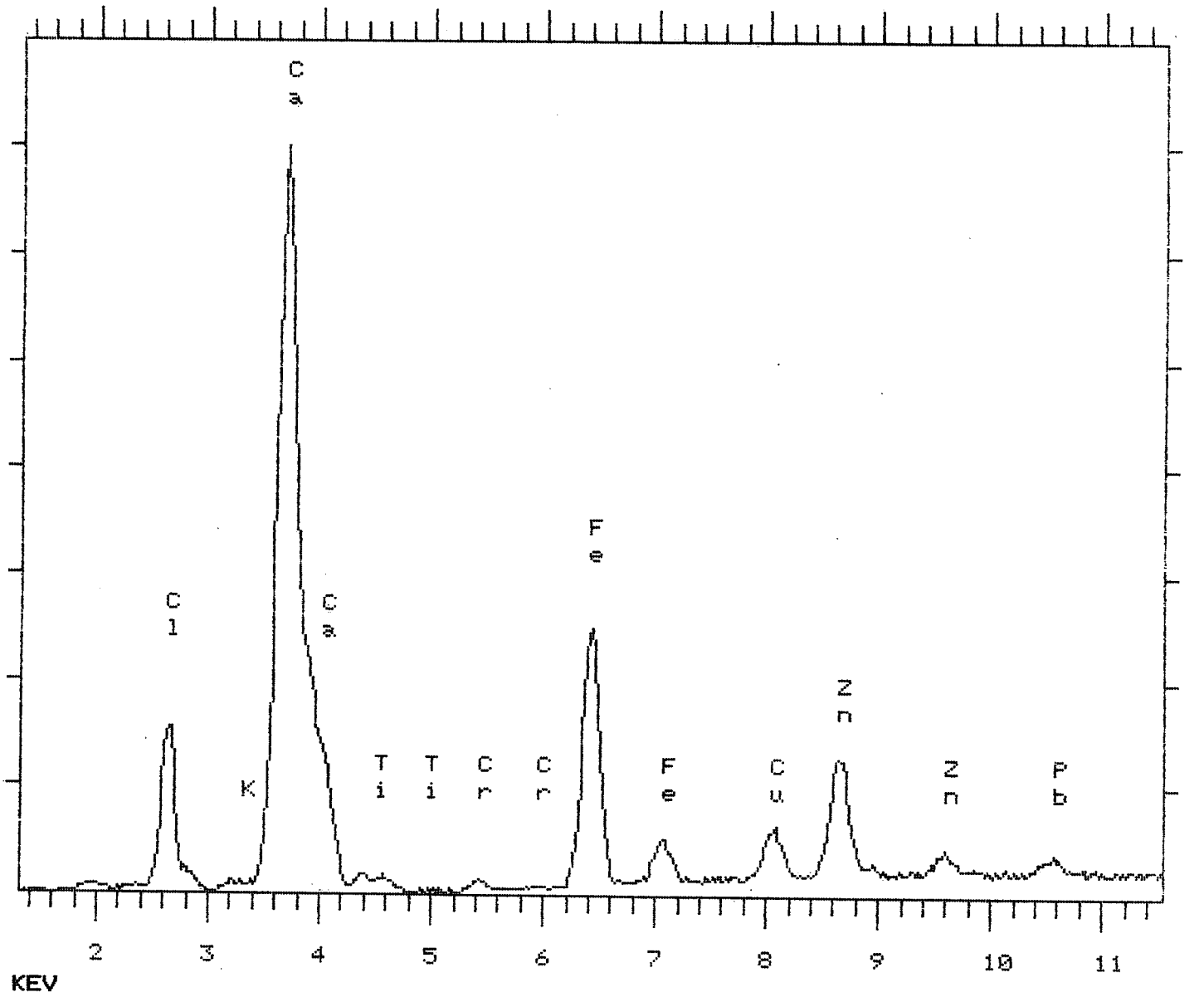
SLIM 12552-3 A15
SPECTRUM : 552-3

FIGURE 3

TUBE VOLTAGE : 15 KV
TUBE CURRENT : 0.04 mA
ATMOSPHERE : VACUUM

FILTER USED : CELLULOSE
LIVETIME : 100 SEC

F.S. = 8K



12/07/101 07:5

SPECTRACE INSTRUMENTS

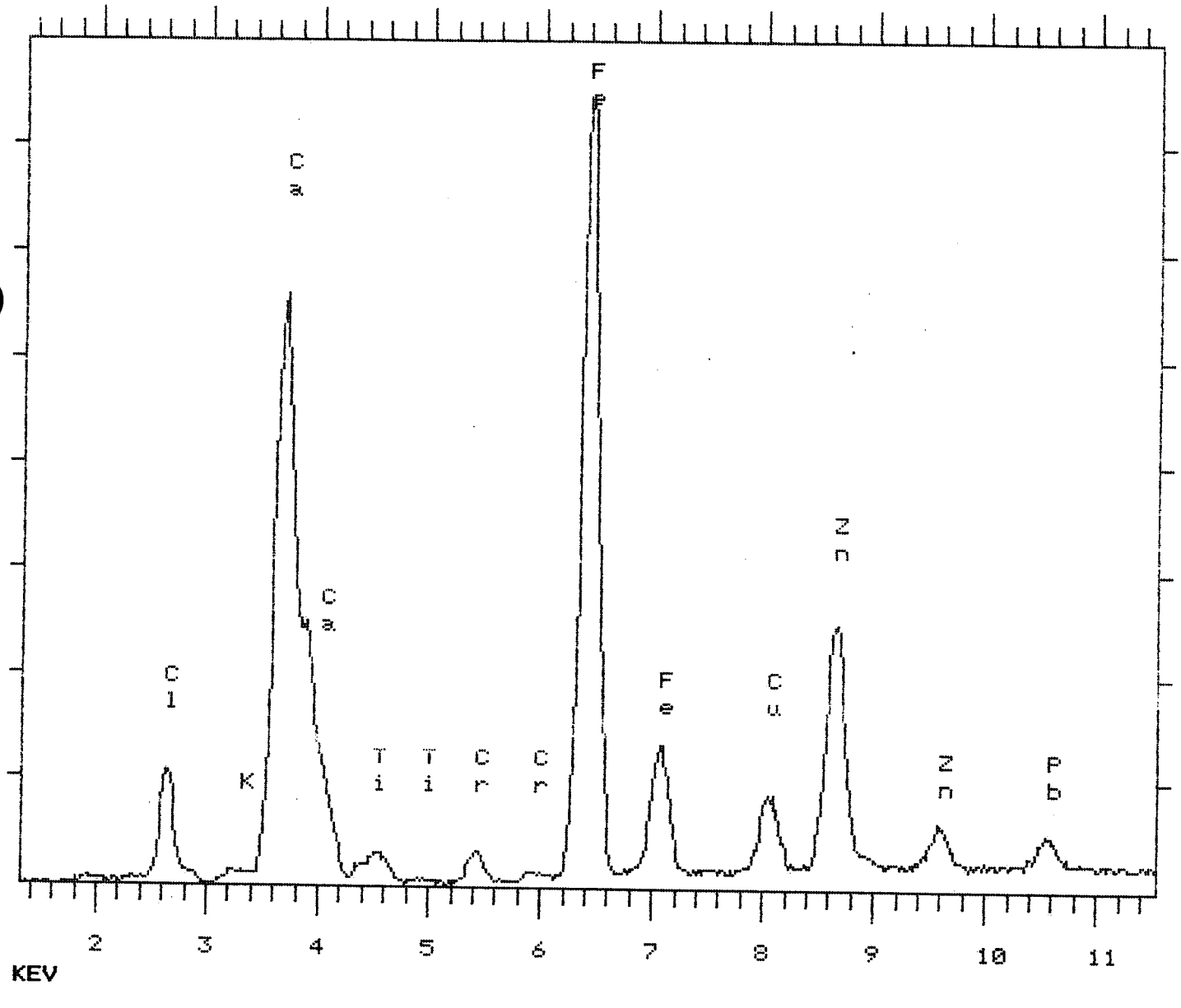
JUM 12552-4 Δ 16
SPECTRUM : 552-4

FIGURE 4

TUBE VOLTAGE : 15 KV
TUBE CURRENT : 0.04 mA
ATMOSPHERE : VACUUM

FILTER USED : CELLULOSE
LIVETIME : 100 SEC

F.S. = 8K



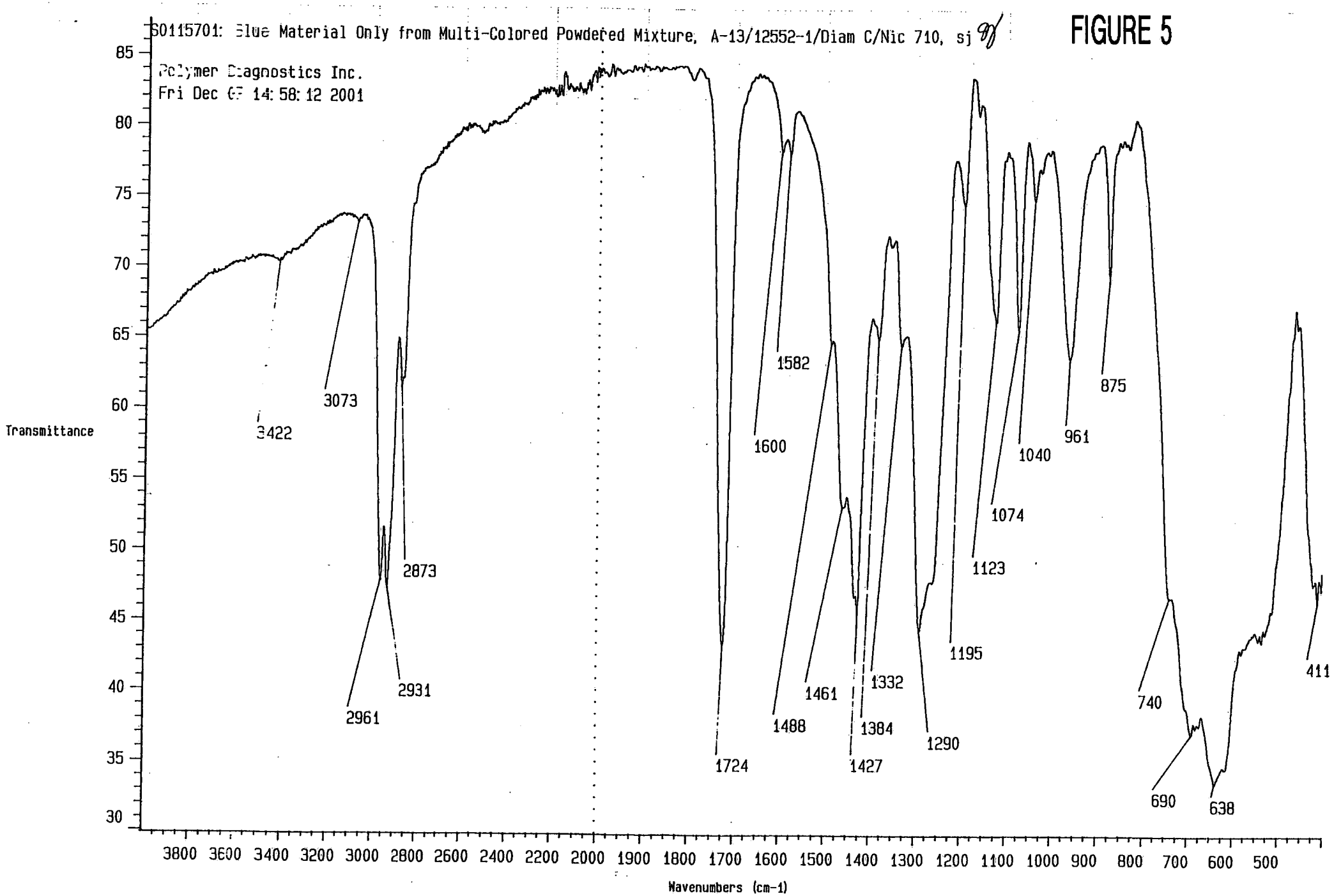
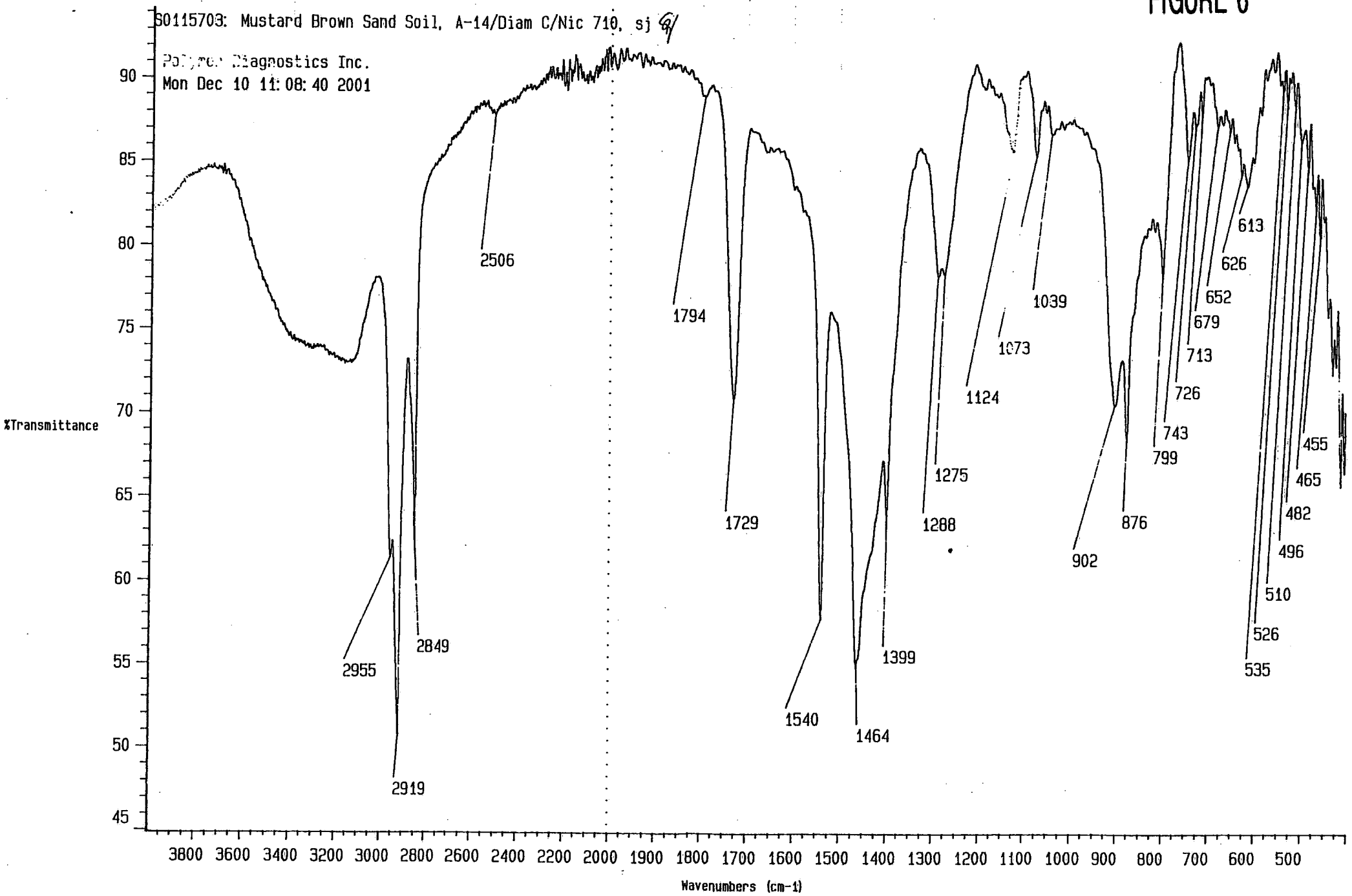

S0115701: Blue Material Only from Multi-Colored Powdered Mixture, A-13/12552-1/Diam C/Nic 710, sj
Polymer Diagnostics Inc.
Fri Dec 07 14:58:12 2001
Transmittance
85
80
75
70
65
60
55
50
45
40
35
30
3422
3073
2961
2931
2873
1724
1600
1582
1488
1461
1427
1384
1332
1290
1195
1123
1074
1040
961
875
740
690
638
411
3800 3600 3400 3200 3000 2800 2600 2400 2200 2000 1900 1800 1700 1600 1500 1400 1300 1200 1100 1000 900 800 700 600 500
Wavenumbers (cm-1)

FIGURE 5

FIGURE 6


S0115703: Mustard Brown Sand Soil, A-14/Diam C/Nic 710, sj
Polymer Diagnostics Inc.
Mon Dec 10 11:08:40 2001
%Transmittance
90
85
80
75
70
65
60
55
50
45
3800 3600 3400 3200 3000 2800 2600 2400 2200 2000 1900 1800 1700 1600 1500 1400 1300 1200 1100 1000 900 800 700 600 500
Wavenumbers (cm-1)
2955
2919
2849
2506
1794
1729
1540
1464
1399
1288
1275
1124
1073
1039
902
876
799
743
726
713
679
652
626
613
535
526
510
496
482
465
455

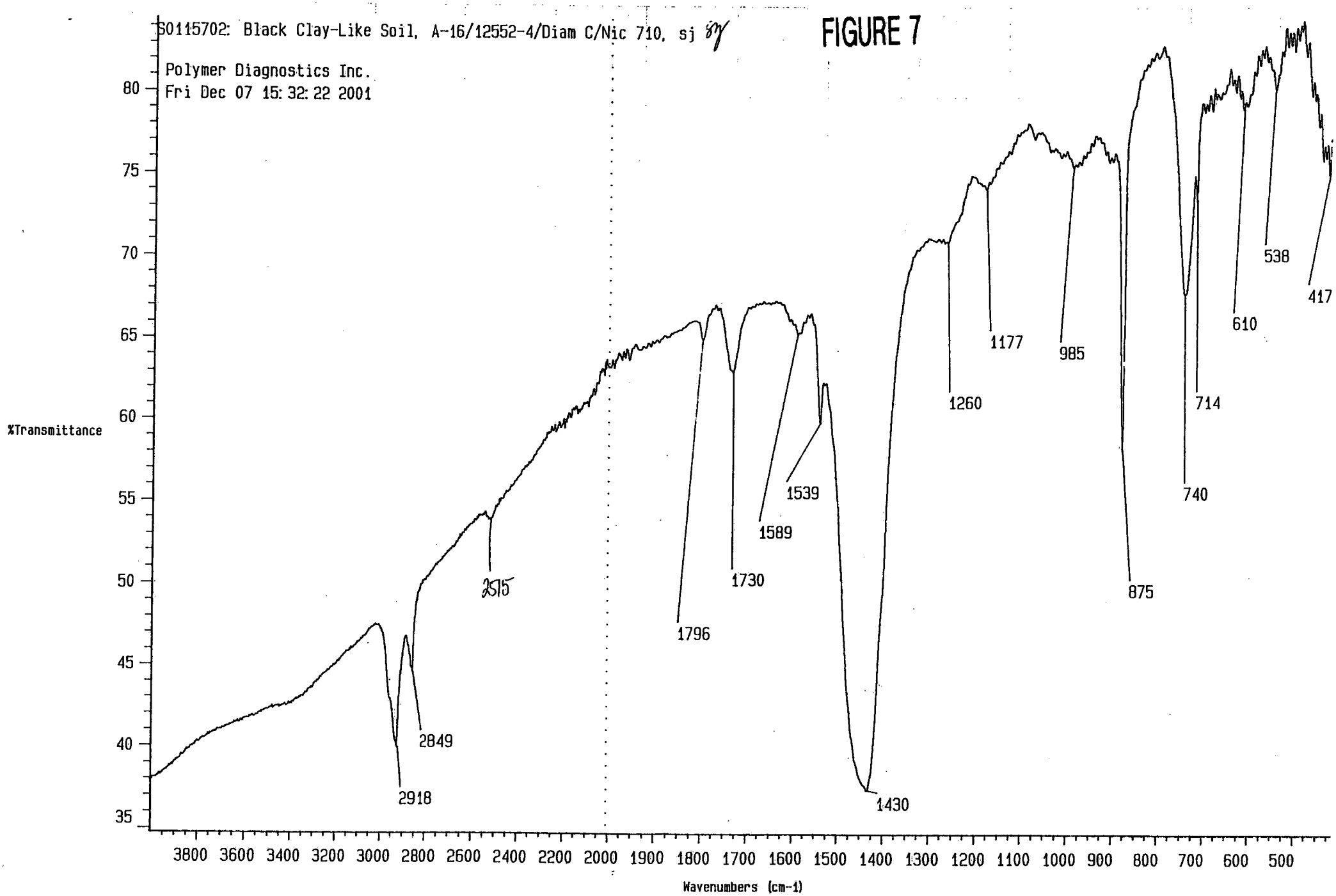

S0115702: Black Clay-Like Soil, A-16/12552-4/Diam C/Nic 710, sj
Polymer Diagnostics Inc.
Fri Dec 07 15:32:22 2001
%Transmittance
80
75
70
65
60
55
50
45
40
35
2918
2849
2515
1796
1730
1589
1539
1430
1260
1177
985
875
740
714
610
538
417
3800 3600 3400 3200 3000 2800 2600 2400 2200 2000 1900 1800 1700 1600 1500 1400 1300 1200 1100 1000 900 800 700 600 500
Wavenumbers (cm-1)

FIGURE 7

Appendix H
Petrographic Investigation Results

DCM Science Laboratory, Inc.
12421 W. 49th Avenue, Unit #6
Wheat Ridge, CO 80033 (303) 463-8270

Petrographic/Scanning Electron Microscopy Analysis

Client:		
RMT, Inc.	Analysis Date:	12-19-01
P.O. Box 8923	Reporting Date:	12-20-01
744 Heartland Trail	Receipt Date:	11-29-01
Madison, WI 53708-8923	Client Job No.:	None Given
	Project Title:	None Given
	DCMSL Project:	RMT1,3

The purpose of this project is to perform a petrographic analysis on one soil sample (client sample no. **SS-54 (3.0-4.0)**) to determine bulk mineralogy, describe mineral grain characteristics and determine if any phases contribute to lead concentration in the sample. The analysis was performed using reflected/transmitted polarized light microscopy (PLM) and scanning electron microscopy (SEM) equipped with an energy dispersive x-ray spectrometer (EDS).

To achieve this purpose, approximately 100 grams of soil were washed to remove organics and clay material. The washed material was split in roughly equal proportions. One split was poured into a separatory funnel along with tetrabromoethane (S.G. = 2.96) to remove heavy mineral phases. The slurry was stirred thoroughly with a glass rod and allowed to settle. The heavy minerals were removed through a stopcock assembly, washed with acetone and air dried. The retained heavy minerals and the remaining split of the sample were then prepared as polished thin section grain mounts for PLM and SEM/EDS analyses. Mineral phases were quantified by modal analysis based on 400 points.

The remaining unwashed portion of the sample was also analyzed for the presence of lead bearing phases. With the aid of a stereomicroscope, suspect material was removed and mounted on aluminum stubs for SEM/EDS analysis. Elemental analyses were performed at magnifications ranging from 300X to 2,000X, 20kV. Complete elemental concentrations in weight percent oxides are provided for any material found to contain lead.

Summary

The petrographic analysis of the whole washed portion of the sample indicates the primary phase is magnetite. The split also carries significant amounts of metallic and glassy slag as well as some ilmenite and hematite. Igneous and sedimentary rock fragments as well as discrete quartz, feldspar and amphibole are also well represented. The sample also carries minor amounts of unburned coal. Some of the coal fragments carry trace amounts of pyrite, the only sulfide mineral identified. Numerous particles in the thin section were probed by SEM/EDS but no detectable lead was found.

The petrographic analysis of the heavy mineral portion also indicates the primary opaque phase is magnetite followed by metallic slag, ilmenite and hematite. SEM/EDS failed to detect lead in any of the heavy mineral phases.

Trace amounts of lead containing material were found in the portion of the soil that was not washed. Two small aggregates of red colored, very friable pigment were identified. SEM/EDS analysis indicates very high lead content followed by chromium and some iron.

Client Sample No.: **SS-54 (3.0-4.0)**

Plagioclase 9.50% K-Feldspar 1.25%

The feldspar clasts are generally angular and range in size from .15mm to 1.20mm. The plagioclase is in various stages of weathering. Some show clear and fresh features but seritization of some grains is common. The k-feldspar is primarily microcline and, in general, shows little signs of weathering.

Rock Fragments 15.00%

Igneous and sedimentary rock fragments are well represented and vary greatly in size from 1.5mm up to approximately 2cm. Igneous fragments appear to be granitic and consist of amphibole, quartz, plagioclase, microcline and some mica. Some fragments also carry minor amounts of magnetite, ilmenite and hematite. Sedimentary rock is primarily fine grained, arkosic sandstone. One small fragment of limestone was also identified.

Quartz 15.75% Amphibole 2.75%

Quartz is present as angular to subangular grains. Grain size varies from 0.05mm up to 0.90mm. Microcrystalline quartz (chert) occurs in trace amounts. Pleochroic green amphibole is present in anhedral fragments to euhedral prisms ranging in size from 0.10mm to 0.40mm. Most grains are clear and fresh but some show ragged boundaries due to weathering.

Metallic Slag 13.75% Glassy Slag 13.00%

Metallic and glassy slag occur in roughly equal amounts. The metallic slag ranges in size from 0.50mm up to approximately 3mm and the grains are generally rounded to subrounded. Most have air bubbles in their interiors and they appear to be constructed of irregular, interlocked grains. Under reflected, polarized light they appear to have the same optical properties of magnetite. Many of the grains have been oxidized and converted to hematite.

The glassy slag ranges in size from 1mm up to 2cm. The grains are generally rounded and carry numerous air bubbles. Most are composed of isotropic glass but some do carry some type of crystalline phase.

Numerous particles of both types of slag were analyzed by SEM/EDS. The analysis failed to detect lead.

Magnetite 17.25% Ilmenite 4.50% Hematite 1.50%

Magnetite, ilmenite and hematite are generally present as angular fragments ranging in size from 0.10mm up to approximately 4mm with magnetite being the most coarse. Although discrete grains are the norm, aggregates of the three are common. Magnetite is also common, carrying minute inclusions of ilmenite.

Coal 5.75%

Minor amounts of black coal are present. Grains range in size from 0.10mm up to 2cm in size, are angular and are very soft and friable. Some grains carry trace amounts of pyrite and are the only sulfide identified in the sample.

Heavy Mineral Analysis
Based on 400 Points

Magnetite	54.75%
Ilmenite	10.75%
Metallic Slag	29.25%
Hematite	5.25%

SEM/EDS Analysis

Trace amounts of red pigment were identified in the whole, unwashed portion of the sample. The pigment is very fine grained with most particles having dimensions less than 1μm. The material is also very friable and can easily be dispersed. SEM/EDS analysis indicates the primary chemistry is lead.

Element	Percent
Lead	78.14%
Chromium	19.87%
Aluminum	1.22%
Iron	0.78%

Ron Schott, Analyst

Photo 1: High magnification SEM photo showing fine grained particles from the red pigment 15,000X. Micron bar - 1μm

Photo 2: Quartz and feldspar grains, crossed polarized light - 100X.

Photo 3: Clear glassy slag, plane polarized light – 100X.

Photo 4: Coal fragment with pyrite inclusions, reflected light – 50X.

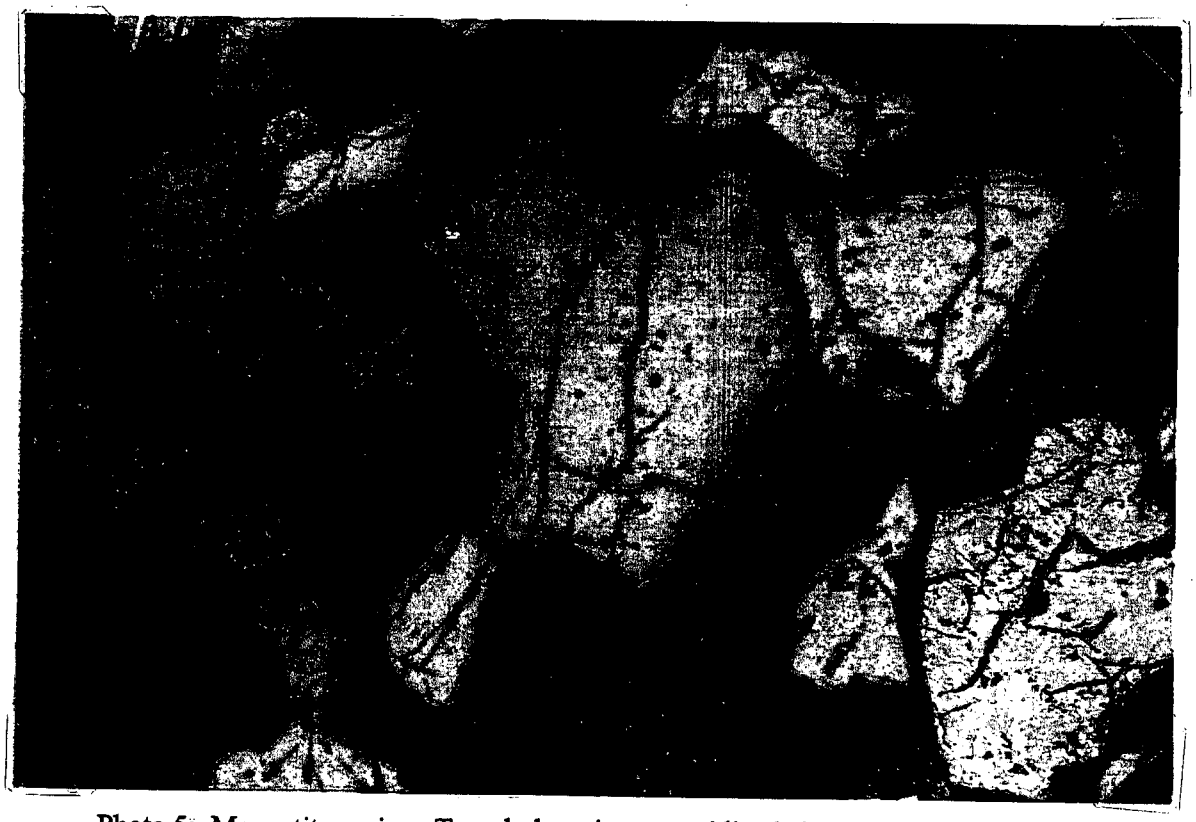


Photo 5: Magnetite grains. Two dark grains are oxidized slag, reflected light – 50X.

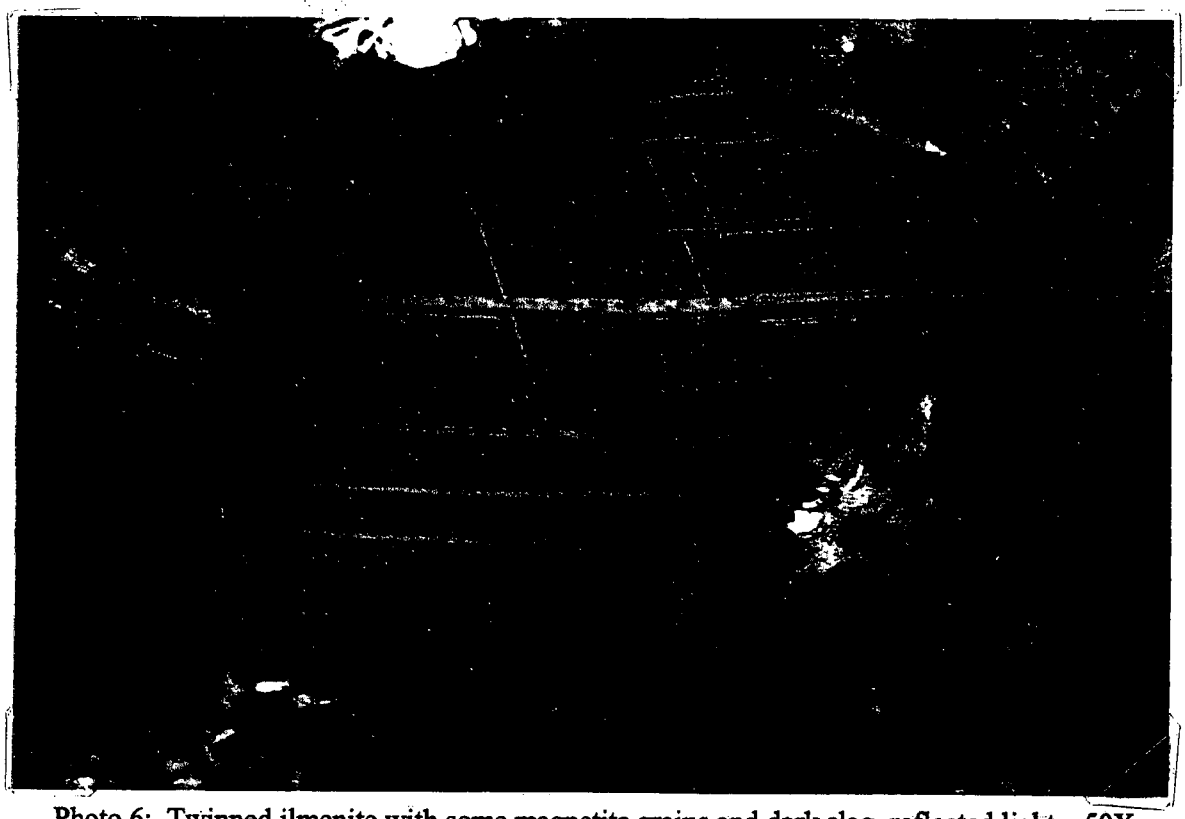


Photo 6: Twinned ilmenite with some magnetite grains and dark slag, reflected light – 50X.

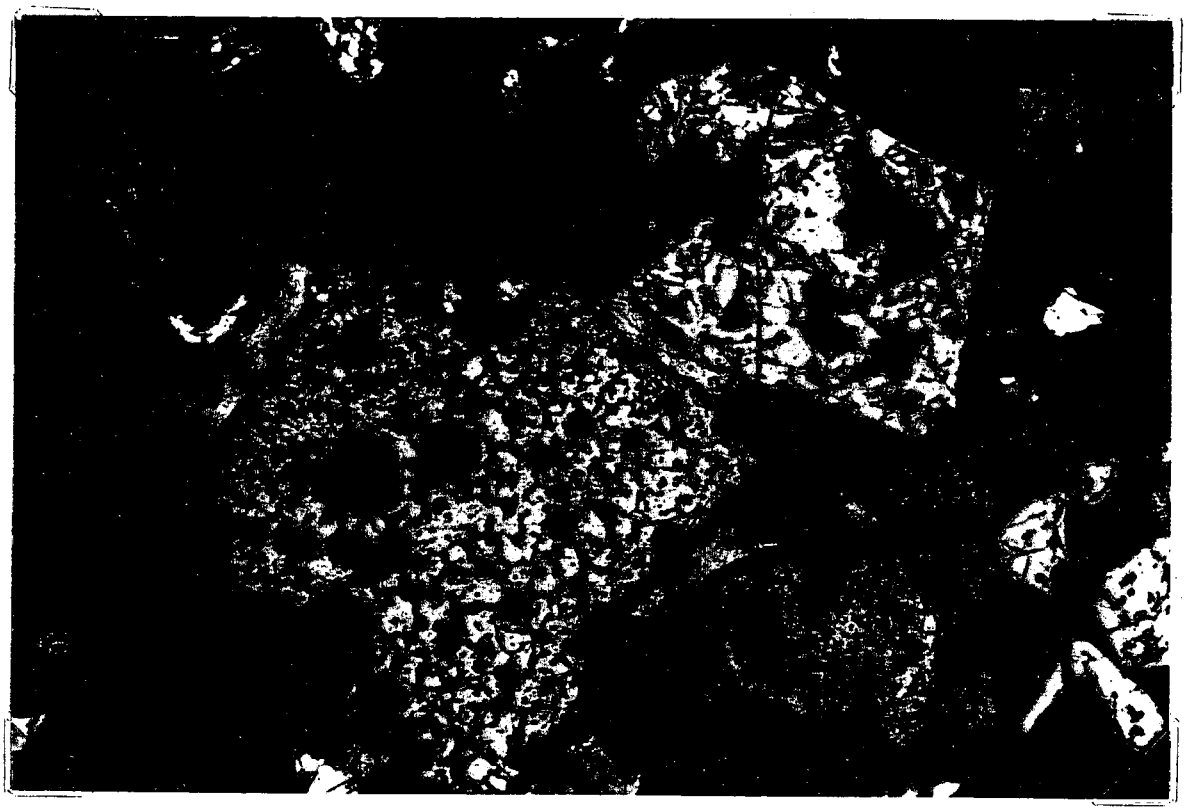


Photo 7: Metallic slag grains, reflected light – 50X.

SCIENCE LABORATORY, INC
XRF-POWDER RESULTS FOR SAMPLES SUBMITTED WITH PO# 016503

DECEMBER 7, 2001
LAB NO. 201871

IDENT	Na2O	MgO	Al2O3	SiO2	P2O5	S	Cl	K2O	CaO	TiO2	MnO	Fe2O3	BaO
	WT %												
WASH COARSE	1.64	1.79	9.34	51.3	0.38	0.22	0.05	1.81	3.11	0.85	0.18	33.2	0.07
UNWASHED	1.44	1.81	10.6	52.3	0.42	0.39	0.08	1.73	3.33	0.82	0.19	30.4	0.09
FINES	0.68	1.75	13.1	49.0	0.47	0.34	0.16	1.80	2.40	0.82	0.21	20.8	0.12
QUALITY CONTROL - REPLICATE (R) SAMPLE AND STANDARD REFERENCE MATERIAL (SY3) ANALYZED WITH SAMPLES													
WASH COARSE(R)	1.65	1.79	9.35	51.0	0.38	0.22	0.05	1.81	3.11	0.86	0.18	33.4	0.07
SY3-XRF	4.43	2.54	12.5	60.8	0.72	<0.05	<0.02	4.34	8.06	0.13	0.29	6.35	0.05
SY3-known	4.15	2.67	11.8	59.7	0.54	0.05	0.014?	4.20	8.26	0.15	0.32	6.45	0.05

IDENT	V	Cr	Co	Ni	W	Cu	Zn	As	Sn	Pb	Mo	Sr	U
	PPM												
WASH COARSE	114	134	41	13	11	224	1105	55	288	1198	<10	172	<10
UNWASHED	103	111	48	17	<10	462	2169	119	250	2849	<10	188	18
FINES	103	100	52	32	<10	788	3370	226	332	5035	<10	200	36
QUALITY CONTROL													
WASH COARSE(R)	114	135	45	16	<10	227	1120	56	284	1214	<10	177	22
SY3-XRF	45	<10	15	17	47	16	258	21	<50	149	<10	310	635
SY3-known	51	10	12	11	--	16	250	20	--	130	--	306	650

IDENT	Th	Nb	Zr	Rb	Y
	PPM				
WASH COARSE	34	30	197	91	79
UNWASHED	59	29	302	69	93
FINES	86	23	332	91	104
QUALITY CONTROL					
WASH COARSE(R)	50	30	203	84	89
SY3-XRF	952	181	350	202	747
SY3-known	990	145	320	208	740

ANALYSIS PERFORMED BY THE MINERAL LAB, INC

Appendix I
GeoChron Lead Isotope Analytical Results

GEOCHRON LABORATORIES
a division of Krueger Enterprises, Inc.

711 Concord Avenue ✦ Cambridge, Massachusetts 02138-1002 ✦ USA
t (617) 876-3691 *f* (617) 661-0148 www.geochronlabs.com

January 3, 2002

Eric E. Swanson
RMT, Inc.
2025 E. Beltline Ave. SE, Suite 402
Grand Rapids, MI 49546

FAX: 616-975-1098

Dear Mr. Swanson,

Enclosed are the results of the Pb isotope ratio analyses on the two soil samples you sent to us at the end of November. These samples were given a rather aggressive aqua regia leach and the data should represent the total lead in everything in the soils except what is in the silicate fractions. Because the samples had such high Pb concentrations due to the contaminants these analyses should also represent the isotopic compositions of those contaminants. While the measured ratios of the two samples do look rather similar they are in fact different, with sample SS-54 having a greater radiogenic lead component than sample SS-17. In short, these do appear to have come from two different lead sources.

Please do not hesitate to contact me if you should have any questions about these results.

Best regards,

Dick Reesman

Richard Reesman
General Manager/K-Ar Lab Manager

GEOCHRON LABORATORIES

a division of Krueger Enterprises, Inc.

711 Concord Avenue ✦ Cambridge, Massachusetts 02138-1002 ✦ USA
t (617) 876-3691 *f* (617) 661-0148 www.geochronlabs.com

Pb ISOTOPE ANALYSES
REPORT OF ANALYTICAL WORK

Our Sample Nos.: SS-3357 and SS-3358 Date Received: 11/29/01

Your Reference: Letter Nov. 27 Date Reported: 1/03/02

Submitted By: Eric E. Swanson
RMT, Inc.
2025 E. Beltline Ave. SE, Suite 402
Grand Rapids, MI 49546

Our Lab Number	Sample Number	Material	$^{206}Pb/^{204}Pb$	$^{207}Pb/^{204}Pb$	$^{208}Pb/^{204}Pb$
SS-3357	SS-17 (5.0-6.0')	Soil	18.138	15.580	37.840
SS-3358	SS-54 (2.0-3.0')	Soil	18.222	15.603	38.186

All ratios corrected 0.12 +/- 0.03%/amu for fractionation, based on replicate analyses of NBS-981; precision of rations is ≤0.1%.

Appendix J
Report Certification

REPORT CERTIFICATION
PURSUANT TO N.J.A.C. 7:26E–1.5

"I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement, which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

Mr. Cristopher R. Anderson

PRINTED NAME

Director, Environmental Services

TITLE

L.E. Carpenter & Company

COMPANY

Cristopher Anderson

SIGNATURE

MAR 12, 2002

DATE