SDMS DocID 2241238

Lockheed Martin Environmental Services
US EPA Environmental Science Center
701 Mapes Road Ft. Meade, MD 20755-5350
Telephone 410-305-3037

LOCKHEED MARTIN

Original

Date: 11/27/00

To: Michael Towle

From: (b) (4) [redacted]

Subject: 28689

Total Number of Pages Including Cover Sheet: 15

Remarks:

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Telephone 410-305-3037 Facsimile 410-305-3597

LOCKHEED MARTIN

Original

Mr. Michael Towle, 3HS31
USEPA Region 3
1650 Arch Street
Philadelphia, PA 19103-2029

November 27, 2000

Dear Michael,

Enclosed you will find the unvalidated Form I's and associated documents for SDG MC01E1, RAS case 28689, 12th Street Landfill site. Please contact ESAT's RPO, Fredrick Foreman, at 410-305-2629, if ESAT can be of any further assistance.

Sincerely,

Lisa D Penix

Lisa D. Penix
ESAT RSCC

cc: Fred Foreman, ESAT RPO

U.S. EPA Region III Sample Scheduling Request Form

28689

S CASE No: ~~CT672~~ CT694	DAS No:	NSF No:
Date: October 16, 2000	Data Validation Level: M1, IM1	EPA Lab Reply:
Site Name: 12th Street Landfill		Cost:
Address: 12th Street at Brandywwine River	City: Wilmington	State: DE
Latitude:	Longitude:	Anal +Val Data TAT:28 days
Program: Superfund	CERCLIS No: DESFN0305510	Activity: Removal
Account No: 01T03N50102DD330QB00	Operable Unit:	Spill ID:
Preparer: (b) (4) [redacted]	RPM/PO: Michael Towle 3H531	Site Leader: (b) (4) [redacted]
Phone: (b) (4) [redacted]	Phone: 215-814-3272	Phone: (b) (4) [redacted]
FAX: 610-485-8587	FAX: 215-814-3254	FAX: 610-485-8587
E-mail: (b) (4) [redacted] @ttemi.com	E-mail: towle.michael@epa.gov	E-mail: (b) [redacted] @ttemi.com
EPA CO: Deborah Eble	Contract Type: START 3 Eastern Area / Prime: Tetra Tech EM Inc.	Sub:
Lab Assignment Date:	Analytical TAT: 14 days	Ship Date From: ~~10/16/00~~ 11-06-00
Organic Lab:		Ship Date To: ~~10/19/00~~ 11-06-00
rganic Lab:		Carrier:

SAMPLES	METHOD	PARAMETER	MATRIX
3	ILM04.1	TAL METALS	SOIL
1	ILM04.1	TAL METALS & CYANIDE	SOIL
1	OLM04.2	TCL ORGANICS	SOIL

NOTE: Data validation levels M3 & IM2 require justification. QC field samples must be included as part of total number of samples.

1. Special Instructions: OSC needs results faxed to him at the above number when they are received at RSCC.
2. Objectives / Project Plan ID / Permit ID: Verify if further cleanup is necessary.
3. Program / Project / Permit Reporting Limits As per method.

QO (QC Requirements) As per method.

EPA United States Environmental Protection Agency
Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analysis)

Case No. 28689

1. Project Code: 07003
2. Account Code:
3. Region No.: 3
Sampling Co.: TetraTech EM Inc
5. Date Shipped: 11/6/00
Carrier: Fed Ex

Regional Information:
Sampler (Name): (b) (4) [redacted]
Airbill Number: 4788 6145 3143

Non-Superfund Program:
Sampler Signature: (b) (4) [redacted]
6. Ship To: Data Chem Laboratories
960 West LeVoy Drive
Salt Lake City UT 84123
ATTN: Brent Stephens

Site Name: 12th Street Landfill
City, State: Wilmington DE
Site Spill ID: EDD36

4. Purpose*
Lead: [X] SF [ ] PRP [ ] ST [ ] FEO
Early Action: [ ] CLEM [ ] PA [X] REM [ ] RI [ ] SI [ ] ESI
Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

7. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (specify in Column A)

8. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaOH
4. H_2SO_4
5. $K_2CR_2O_7$
6. Ice only
7. Other (specify in Column D)
N. Not Preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 7) Other:	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 8) Other:	E — RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low Only: NO_2/NO_3	Fluoride	High Only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank S = Spike D = Duplicate R = Rinsate PE = Perform Eval — = Not a QC Sample)
MC01E1	5	L	G	6		X	X					3-3001723	S-1	11/6/00 1020	CD2Q7	BC	— —
MC01E5	5	L	G	6		X						3-3001724	S-2	11/6/00 1035	— —	BC	— —
MC01E6	5	L	G	6		X						3-3001725	S-3	11/6/00 1105	— —	BC	— —
						Rec'd 11/22/00 ADP MC01E1											

Shipment for Case Complete? (Y/N): Y
Page 1 of 1
Sample(s) to be Used for Laboratory QC: MC01E1
Additional Sampler Signatures:
Chain of Custody Seal Number(s):

Chain of Custody Record

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
(b) (4) [redacted]	11/6/00 1630	FEDEX			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Green - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-1 (8/99)

See Reverse for Additional Standard Instructions
*See Reverse for Purpose Code Definitions

391333

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

ORIGINAL

Lab Name: DATACHEM LABORATORIES Contract: 68-W0-0087

Lab Code: DATAC Case No.: 28689 SAS No.: SDG No.: MC01E1

SOW No.: ILM04.1

Sample No.	Lab Sample ID.
MC01E1	00C01778
MC01E1D	00C01778
MC01E1S	00C01778
MC01E5	00C01779
MC01E6	00C01780

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes, were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

(b) (4) [redacted]

Name: (b) (4) [redacted]

Date: 11/21/2000

Title: Chemist

DATA CHEM LABORATORIES, INC.

A SORENSON COMPANY

ORIGINAL

CASE NARRATIVE

Case #: 28689
SDG #: MC01E1
DCL Set ID #: 00C-0212
November 22, 2000

General Information

The samples in this SDG were analyzed by methodologies contained in ILM04.1 under contract 68-W0-0087. All concentration, analytical, and method qualifiers are defined in the SOW.

Holding Times

All samples were prepared and analyzed within method-required holding times.

Initial and Continuing Calibration

All initial and continuing calibration verification and blank analyses were performed within the designated frequency and recoveries of the verifications and concentrations of the blanks met method acceptance criteria.

Preparation Blanks

The absolute value of all analyte concentrations in the preparation blank were lower than the Contract Required Detection Limit.

ICP Interference Check Sample Analysis

Results for the interference check samples met method acceptance criteria.

Matrix Spike Analysis

All matrix spike recoveries were within the limits of 75-125% with the exception of Sb, Cd, and CN recoveries in soil. A post digestion spike was performed for each affected analyte. Since all LCS recoveries met method criteria, these poor spike recoveries may be attributed to matrix interference.

Matrix Duplicate Analysis

All matrix duplicate results met method acceptance criteria with the exception of Fe, Mn, and Nil.

Laboratory Control Sample Analysis

Results for the analyses of the solid LCS met method acceptance criteria.

ICP Serial Dilution Analysis

All ICP Serial Dilution results met method acceptance criteria.

Miscellaneous Comments

The Serial Dilution had an RPD of 2.1, however, CCS indicates the RPD is 95.9, which is incorrect.
Cooler Id: Coo-1519 Cooler Temperature: 6 degrees Celsius

(b) (4) [redacted]

Technician

CINCINNATI LABORATORY
1388 Glendale Milford Road
Cincinnati, Ohio 45212-3506
513-533-8336, Fax 513-733-5042

CORPORATE OFFICE
SALT LAKE CITY LABORATORY
960 West LeVoy Drive
Salt Lake City, Utah 84123-2547
801-266-7700, Fax 801-268-9992
www.datachemx.com

NOVATO OFFICE
[illegible] Santa Venetia Court
Novato, California [illegible]
415-892-9171, Fax 415-892-[illegible]

ENVIROFORMS/INORGANIC CLP

SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

MC01E1

Lab Name: DATACHEM LABORATORIES Contract: 68-W0-0087

Lab Code: DATAC Case No.: 28689 SAS No.: SDG No.: MC01E1

Matrix (soil/water): SOIL Lab Sample ID: 00C01778

Level (low/med): LOW Date Received: 11/07/00

% Solids: 67.2

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	35100			P
7440-36-0	Antimony	15.5	U	N	P
7440-38-2	Arsenic	12.1			P
7440-39-3	Barium	1130			P
7440-41-7	Beryllium	0.22	B		P
7440-43-9	Cadmium	12.9		N	P
7440-70-2	Calcium	23600			P
7440-47-3	Chromium	99.0			P
7440-48-4	Cobalt	21.6			P
7440-50-8	Copper	891			P
7439-89-6	Iron	115000		*	P
7439-92-1	Lead	65700			P
7439-95-4	Magnesium	5380			P
7439-96-5	Manganese	740		*	P
7439-97-6	Mercury	0.20			CV
7440-02-0	Nickel	97.1		*	P
7440-09-7	Potassium	1050	B		P
7782-49-2	Selenium	0.65	U		P
7440-22-4	Silver	1.9	B		P
7440-23-5	Sodium	995	B		P
7440-28-0	Thallium	3.3			P
7440-62-2	Vanadium	50.7			P
7440-66-6	Zinc	12000			P
	Cyanide	0.19	U	N	CA

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: BLACK Clarity After: CLOUDY Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

MC01E5

Lab Name: DATACHEM LABORATORIES Contract: 68-W0-0087

Lab Code: DATAC Case No.: 28689 SAS No.: SDG No.: MC01E1

Matrix (soil/water): SOIL Lab Sample ID: 00C01779

Level (low/med): LOW Date Received: 11/07/00

% Solids: 50.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	50000			P
7440-36-0	Antimony	20.8	U	N	P
7440-38-2	Arsenic	5.9			P
7440-39-3	Barium	822			P
7440-41-7	Beryllium	0.08	U		P
7440-43-9	Cadmium	12.2		N	P
7440-70-2	Calcium	25000			P
7440-47-3	Chromium	33.8			P
7440-48-4	Cobalt	11.1	B		P
7440-50-8	Copper	561			P
7439-89-6	Iron	10400		*	P
7439-92-1	Lead	29600			P
7439-95-4	Magnesium	5320			P
7439-96-5	Manganese	157		*	P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	59.5		*	P
7440-09-7	Potassium	1190	B		P
7782-49-2	Selenium	17.3			P
7440-22-4	Silver	2.1	U		P
7440-23-5	Sodium	1680	B		P
7440-28-0	Thallium	2.5	B		P
7440-62-2	Vanadium	89.6			P
7440-66-6	Zinc	14600			P
	Cyanide	0.26	U	N	CA

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: BLACK Clarity After: CLOUDY Artifacts:

Comments:

SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

MC01E6

Lab Name: DATACHEM LABORATORIES Contract: 68-W0-0087

Lab Code: DATAC Case No.: 28689 SAS No.: SDG No.: MC01E1

Matrix (soil/water): SOIL Lab Sample ID: 00C01780

Level (low/med): LOW Date Received: 11/07/00

% Solids: 59.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	57000			P
7440-36-0	Antimony	17.6	U	N	P
7440-38-2	Arsenic	4.3			P
7440-39-3	Barium	626			P
7440-41-7	Beryllium	0.30	B		P
7440-43-9	Cadmium	18.6		N	P
7440-70-2	Calcium	25900			P
7440-47-3	Chromium	114			P
7440-48-4	Cobalt	17.0			P
7440-50-8	Copper	564			P
7439-89-6	Iron	18100		*	P
7439-92-1	Lead	31200			P
7439-95-4	Magnesium	4220			P
7439-96-5	Manganese	310		*	P
7439-97-6	Mercury	0.09	B		CV
7440-02-0	Nickel	16.2		*	P
7440-09-7	Potassium	1490	B		P
7782-49-2	Selenium	0.74	U		P
7440-22-4	Silver	2.3	B		P
7440-23-5	Sodium	4060			P
7440-28-0	Thallium	0.54	U		P
7440-62-2	Vanadium	55.2			P
7440-66-6	Zinc	11600			P
	Cyanide	0.22	U	N	CA

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: BLACK Clarity After: CLOUDY Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

3
BLANKS

ORIGINAL

Lab Name: DATACHEM LABORATORIES Contract: 68-W0-0087

Lab Code: DATAC Case No.: 28689 SAS No.: SDG No.: MC01E1

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	-67.1	B	-42.4	B	-48.7	B	31.2	U	6.240	U	P
Antimony	52.1	U	52.1	U	52.1	U	52.1	U	10.420	U	P
Arsenic	-1.6	B	1.2	U	1.2	U	-1.7	B	-0.296	B	P
Barium	0.6	U	0.6	U	0.6	U	0.8	B	0.120	U	P
Beryllium	0.2	U	0.2	U	0.5	B	0.5	B	0.040	U	P
Cadmium	3.1	U	3.1	U	3.1	U	3.1	U	0.620	U	P
Calcium	10.6	U	10.6	U	10.6	U	10.6	U	23.718	B	P
Chromium	5.7	U	5.7	U	5.7	U	5.7	U	1.140	U	P
Cobalt	17.4	U	17.4	U	17.4	U	17.4	U	3.480	U	P
Copper	7.7	U	7.7	U	7.7	U	7.7	U	1.540	U	P
Iron	6.0	U	6.0	U	6.0	U	6.0	U	3.721	B	P
Lead	1.1	U	1.1	U	1.1	U	1.1	B	0.220	U	P
Magnesium	33.6	U	33.6	U	33.6	U	33.6	U	6.720	U	P
Manganese	2.3	B	2.0	U	2.0	U	2.0	U	0.400	U	P
Mercury	0.1	U	0.1	U	0.1	U			0.050	U	CV
Nickel	34.7	U	34.7	U	34.7	U	34.7	U	6.940	U	P
Potassium	711.0	U	711.0	U	711.0	U	711.0	U	142.200	U	P
Selenium	2.2	U	2.2	U	2.2	U	2.2	U	0.440	U	P
Silver	-6.7	B	5.2	U	5.2	U	5.4	B	1.040	U	P
Sodium	32.9	U	32.9	U	-48.2	B	-56.2	B	-7.992	B	P
Thallium	1.6	U	1.6	U	1.8	B	1.6	U	0.320	U	P
Vanadium	-4.6	B	4.1	U	4.1	U	4.1	U	0.820	U	P
Zinc	11.8	U	11.8	U	11.8	U	11.8	U	2.360	U	P
Cyanide	2.6	U	2.6	U	2.6	U	2.6	U	0.258	B	CA

FORM III - IN

ENVIROFORMS, INCORPORATED

3
BLANKS

ORIGINAL

Lab Name: DATACHEM LABORATORIES Contract: 68-W0-0087

Lab Code: DATAC Case No.: 28689 SAS No.: SDG No.: MC01E1

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			-72.9	B							P
Antimony			52.1	U							P
Arsenic			-1.5	B							P
Barium			0.6	U							P
Beryllium			0.8	B							P
Cadmium			3.1	U							P
Calcium			10.6	U							P
Chromium			5.7	U							P
Cobalt			17.4	U							P
Copper			7.7	U							P
Iron			6.0	U							P
Lead			1.1	U							P
Magnesium			33.6	U							P
Manganese			2.0	U							P
Mercury											NR
Nickel			34.7	U							P
Potassium			711.0	U							P
Selenium			2.2	U							P
Silver			5.2	U							P
Sodium			-51.4	B							P
Thallium			1.6	U							P
Vanadium			4.1	U							P
Zinc			11.8	U							P
Cyanide											NR

FORM III - IN

ENVIROFORMS/INORGANIC CLP

5A
SPIKE SAMPLE RECOVERY

SAMPLE NO.

ORIGINAL

MC01E1S

Lab Name: DATACHEM LABORATORIES Contract: 68-W0-0087

Lab Code: DATAC Case No.: 28689 SAS No.: SDG No.: MC01E1

Matrix (soil/water): SOIL Level (low/med): LOW
% Solids for Sample: 67.2

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	75-125	50.8432		15.5060	U	148.81	34.2	N	P
Arsenic	75-125	21.1238		12.0773		11.90	76.0		P
Barium	75-125	1730.0869		1126.1205		595.24	101.5		P
Beryllium	75-125	15.4514		0.2201	B	14.88	102.4		P
Cadmium	75-125	33.8846		12.8565		14.88	141.3	N	P
Calcium									NR
Chromium	75-125	163.6277		98.9654		59.52	108.6		P
Cobalt	75-125	159.2788		21.6086		148.81	92.5		P
Copper		927.5135		891.0777		74.40	49.0		P
Iron									NR
Lead		42019.8400		65667.7940		5.95	*******		P
Magnesium									NR
Manganese		678.7674		740.4210		148.81	-41.4		P
Mercury	75-125	0.9738		0.1966		0.74	105.0		CV
Nickel	75-125	217.4760		97.0561		148.81	80.9		P
Potassium									NR
Selenium	75-125	3.6156		0.6548	U	2.98	121.3		P
Silver	75-125	15.1590		1.8840	B	14.88	89.2		P
Sodium									NR
Thallium	75-125	16.1292		3.3154		14.88	86.1		P
Vanadium	75-125	208.4255		50.7141		148.81	106.0		P
Zinc		13103.3110		11961.9290		148.81	767.0		P
Cyanide	75-125	4.9876		0.1935	U	7.44	67.0	N	CA

Comments:

ENVIROFORMS/INORGANIC CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO. ORIGINAL

MC01E1A

Lab Name: DATACHEM LABORATORIES Contract: 68-W0-0087

Lab Code: DATAC Case No.: 28689 SAS No.: SDG No.: MC01E1

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

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)		Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		105.11		52.10	U	120.0	87.6		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium		127.57		43.20		86.0	98.1		P
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide		16.14		2.60	U	20.0	80.7		CA

Comments:

ENVIROFORMS/INORGANIC CLP

6
DUPLICATES

SAMPLE NO. ORIGINAL

MC01E1D

Lab Name: DATACHEM LABORATORIES Contract: 68-W0-0087

Lab Code: DATAC Case No.: 28689 SAS No.: SDG No.: MC01E1

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

% Solids for Sample: 67.2 % Solids for Duplicate: 67.5

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		35100.6380		35728.7520		1.8		P
Antimony		15.5060	U	15.5060	U			P
Arsenic	3.0	12.0773		10.1118		17.7		P
Barium		1126.1205		1338.8994		17.3		P
Beryllium		0.2201	B	0.1797	B	20.2		P
Cadmium		12.8565		12.8576		0.0		P
Calcium		23592.3350		21407.2560		9.7		P
Chromium		98.9654		101.1329		2.2		P
Cobalt	14.9	21.6086		15.9682		30.0		P
Copper		891.0777		799.2890		10.9		P
Iron		115347.0100		68609.9510		50.8	*	P
Lead		65667.7940		54241.0370		19.1		P
Magnesium	1488.1	5382.4407		5035.4754		6.7		P
Manganese		740.4210		477.6470		43.1	*	P
Mercury	0.1	0.1966		0.1683		15.5		CV
Nickel		97.0561		76.6234		23.5	*	P
Potassium		1051.2267	B	1001.7123	B	4.8		P
Selenium		0.6548	U	0.7148	B	200.0		P
Silver		1.8840	B	2.2544	B	17.9		P
Sodium		994.5214	B	968.2768	B	2.7		P
Thallium	3.0	3.3154		2.6667	B	21.7		P
Vanadium	14.9	50.7141		63.0021		21.6		P
Zinc		11961.9290		11245.2730		6.2		P
Cyanide		0.1935	U	0.1935	U			CA

FORM VI - IN

ENVIROFORMS/INORGANIC CLP

7

LABORATORY CONTROL SAMPLE

ORIGINAL

Lab Name: DATACHEM LABORATORIES Contract: 68-W0-0087

Lab Code: DATAC Case No.: 28689 SAS No.: SDG No.: MC01E1

Solid LCS Source: EPA-EMSL

Aqueous LCS Source:

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum				325.0	319.1		193.1	424.2	98.2
Antimony				211.0	244.0		129.4	297.2	115.6
Arsenic				917.0	967.9		613.7	1247.2	105.6
Barium				4.8	5.4	B	2.5	8.1	112.5
Beryllium				19.4	19.7		15.3	22.2	101.5
Cadmium				45.4	49.6		32.1	51.1	109.3
Calcium				196200.0	185527.7		142933.0	225376.0	94.6
Chromium				99.6	98.9		77.8	115.2	99.3
Cobalt				144.0	149.2		115.4	165.6	103.6
Copper				6910.0	6767.7		5727.3	7633.1	97.9
Iron				22430.0	22671.5		16831.3	25193.0	101.1
Lead				236.0	209.9		167.6	280.5	88.9
Magnesium				118100.0	118211.6		97493.0	128886.0	100.1
Manganese				208.0	208.2		167.9	234.4	100.1
Mercury				12.7	10.7		7.8	16.9	84.3
Nickel				60.9	56.5		43.5	70.5	92.8
Potassium				50.0	142.2	U	0.0	379.3	0.0
Selenium				39.2	41.7		17.6	56.4	106.4
Silver				22.2	25.5		13.2	28.5	114.9
Sodium				50.0	11.0	B	0.0	277.4	22.0
Thallium				39.0	37.7		24.6	51.6	96.7
Vanadium				65.8	66.4		53.0	78.6	100.9
Zinc				187.0	184.1		127.7	222.1	98.4
Cyanide				5.6	5.6		4.1	7.1	100.0

FORM VII - IN