

**Recra LabNet Philadelphia
Analytical Report**

Client : TNU-HANFORD B99-078
RFW# : 9909L049
SDG/SAF# : H0524/B99-078

W.O.# : 10985-001-001-9999-00
Date Received: 09-10-99

REVISION

METALS CASE NARRATIVE

RECEIVED
JAN 18 2000
EDMC

This package has been revised to include the addition of Antimony and Thallium.

1. This narrative covers the analyses of 1 soil sample.
2. The sample was prepared and analyzed in accordance with methods checked on the attached glossary.
3. All analyses were performed within the required holding times.
4. The cooler temperature has been recorded on the Chain of Custody.
5. All Initial and Continuing Calibration Verifications (ICV/CCVs) were within the 90-110% control limits (80-120% for Mercury).
6. All Initial and Continuing Calibration Blanks (ICB/CCBs) were within control limits (less than the PQL).
7. All preparation/method blanks (MB) were within method criteria {less than the Practical Quantitation Limit (3X the IDL) or samples greater than 20X MB value}. Refer to the Inorganics Method Blank Data Summary.
8. All ICP Interference Check Standards were within control limits.
9. All laboratory control samples (LCS) were within the laboratory control limits. Refer to the Inorganics Laboratory Control Standards Report.
10. The matrix spike (MS) recoveries for 2 analytes were outside the 75-125% control limits. Refer to the Inorganics Accuracy Report.

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 014 pages.

11. For analytes where the ICP MS is out-of-control, a post-digestion MS (PDS) and serial dilution are performed. A PDS was prepared at the following levels:

<u>Sample ID</u>	<u>Element</u>	<u>PDS</u> <u>Concentration (ppb)</u>	<u>PDS</u> <u>% Recovery</u>
B0W9M1	Zinc	500	110.0
	Antimony	600	87.2

12. The duplicate analyses for 5 analytes were outside the 20% Relative Percent Difference (RPD) control limits. Refer to the Inorganics Precision Report.
13. For the purposes of this report, the data has been reported to the Instrument Detection Limit (IDL). Values between the IDL and the Practical Quantitation Limit (PQL) are acquired in a region of less-certain quantification.

Pat E

J. Michael Taylor
Vice President
Philadelphia Analytical Laboratory

mid/m09-049r

11-11-99
Date



METALS METHOD GLOSSARY

The following methods are used as reference for the digestion and analysis of samples contained within this

Recra Lot#: 9909L049

Leaching Procedure: 1310 1311 1312 Other: _____

CLP Metals Digestion and Analysis Methods: ILM03.0 ILM04.0

Metals Digestion Methods: 3005A 3010A 3015 3020A 5050A 3051 200.7 SS17
 Other: _____

Metals Analysis Methods

	SW846	EPA	STD MTD	EPA OSWR	USATHAMA
Aluminum	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Antimony	<input checked="" type="checkbox"/> 6010B <u>7041⁵</u>	<u>200.7</u>	<u>204.2</u>		<u>99</u>
Arsenic	<input checked="" type="checkbox"/> 6010B <u>7060A⁵</u>	<u>200.7</u>	<u>206.2</u>	<u>3113B</u>	<u>99</u>
Barium	<input checked="" type="checkbox"/> 6010B	<u>200.7</u>			<u>99</u>
Beryllium	<input checked="" type="checkbox"/> 6010B	<u>200.7</u>			<u>99</u>
Bismuth	<u>6010B¹</u>	<u>200.7¹</u>		<u>1620</u>	<u>99</u>
Boron	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Cadmium	<input checked="" type="checkbox"/> 6010B <u>7131A⁵</u>	<u>200.7</u>	<u>213.2</u>		<u>99</u>
Calcium	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Chromium	<input checked="" type="checkbox"/> 6010B <u>7191⁵</u>	<u>200.7</u>	<u>218.2</u>		<u>SS17</u>
Cobalt	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Copper	<input checked="" type="checkbox"/> 6010B <u>7211⁵</u>	<u>200.7</u>	<u>220.2</u>		<u>99</u>
Iron	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Lead	<input checked="" type="checkbox"/> 6010B <u>7421⁵</u>	<u>200.7</u>	<u>239.2</u>	<u>3113B</u>	<u>99</u>
Lithium	<u>6010B</u> <u>7430⁴</u>	<u>200.7</u>		<u>1620</u>	<u>99</u>
Magnesium	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Manganese	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Mercury	<u>7470A³</u> <input checked="" type="checkbox"/> <u>7471A³</u>	<u>245.1²</u>	<u>245.5²</u>		<u>99</u>
Molybdenum	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Nickel	<input checked="" type="checkbox"/> 6010B	<u>200.7</u>			<u>99</u>
Potassium	<u>6010B</u> <u>7610⁴</u>	<u>200.7</u>	<u>258.1⁴</u>		<u>99</u>
Rare Earths	<input checked="" type="checkbox"/> 6010B ¹	<u>200.7¹</u>		<u>1620</u>	<u>99</u>
Selenium	<input checked="" type="checkbox"/> 6010B <u>7740⁵</u>	<u>200.7</u>	<u>270.2</u>	<u>3113B</u>	<u>99</u>
Silicon	<u>6010B¹</u>	<u>200.7</u>		<u>1620</u>	<u>99</u>
Silica	<u>6010B</u>	<u>200.7</u>		<u>1620</u>	<u>99</u>
Silver	<input checked="" type="checkbox"/> 6010B <u>7761⁵</u>	<u>200.7</u>	<u>272.2</u>		<u>99</u>
Sodium	<u>6010B</u> <u>7770⁴</u>	<u>200.7</u>	<u>273.1⁴</u>		<u>99</u>
Strontium	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Thallium	<input checked="" type="checkbox"/> 6010B <u>7841⁵</u>	<u>200.7</u>	<u>279.2</u> <u>200.9</u>		<u>99</u>
Tin	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Titanium	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Uranium	<u>6010B¹</u>	<u>200.7¹</u>		<u>1620</u>	<u>99</u>
Vanadium	<input checked="" type="checkbox"/> 6010B	<u>200.7</u>			<u>99</u>
Zinc	<input checked="" type="checkbox"/> 6010B	<u>200.7</u>			<u>99</u>
Zirconium	<u>6010B¹</u>	<u>200.7¹</u>		<u>1620</u>	<u>99</u>

Other: _____

Method: _____

METHOD REFERENCES AND DATA QUALIFIERS

DATA QUALIFIERS

U = Indicates that the parameter was not detected at or above the reported limit. The associated numerical value is the sample detection limit.

* = Indicates that the original sample result is greater than 4x the spike amount added.

ABBREVIATIONS

MB = Method or Preparation Blank.

MS = Matrix Spike.

MSD = Matrix Spike Duplicate.

REP = Sample Replicate

LCS = Laboratory Control Sample.

NC = Not calculated.

ANALYTICAL METAL METHODS

1. Not included in the method element list.
2. Modified Hg: Hg1 and Hg2 require less total volume of digestate due to the autosampler analysis. Sample volumes and reagents for mercury determinations in water and soil have been proportionately scaled down to adapt to this semi-automated technique. The sample volume used for water analysis is 33 mL. For soils, 0.1 grams of sample is taken to a final volume of 50 mL (including all reagents).
3. Modified Hg: Hg1 and Hg2 require less total volume of digestate due to the autosampler analysis. Sample volumes and reagents for mercury determinations in water and soil have been proportionately scaled down to adapt to this semi-automated technique. The sample volume used for water analysis is 33 mL. For soils, three 0.1 gram of sample is taken to a final volume of 50 mL (including all reagents).
4. Flame AA.
5. Graphite Furnace AA.

RFW 21-21L-033/N-10/96

Recre LabNet - Lionville

INORGANICS DATA SUMMARY REPORT 11/08/99

CLIENT: TNU-HANFORD B99-078
 WORK ORDER: 10985-001-001-9999-00

RECRA LOT #: 9909L049

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING	DILUTION
					LIMIT	FACTOR
-001	B0W9M1	Silver, Total	0.1	u MG/KG	0.1	1.0
		Arsenic, Total	2.7	MG/KG	0.32	1.0
		Barium, Total	71.7	MG/KG	0.03	1.0
		Beryllium, Total	0.18	MG/KG	0.01	1.0
		Cadmium, Total	0.94	MG/KG	0.03	1.0
		Chromium, Total	8.7	MG/KG	0.08	1.0
		Copper, Total	16.7	MG/KG	0.12	1.0
		Mercury, Total	0.02	u MG/KG	0.02	1.0
		Nickel, Total	8.7	MG/KG	0.12	1.0
		Lead, Total	11.7	MG/KG	0.20	1.0
		Antimony, Total	0.24	u MG/KG	0.24	1.0
		Selenium, Total	0.53	MG/KG	0.36	1.0
		Thallium, Total	1.4	MG/KG	0.51	1.0
		Vanadium, Total	63.2	MG/KG	0.06	1.0
		Zinc, Total	93.3	MG/KG	0.08	1.0

005

CLIENT: TNU-HANFORD B99-078

RECRA LOT #: 9909L049

WORK ORDER: 10985-001-001-9999-00

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
BLANK1	99L0657-MB1	Silver, Total	0.10 u	MG/KG	0.10	1.0
		Arsenic, Total	0.33 u	MG/KG	0.33	1.0
		Barium, Total	0.11	MG/KG	0.03	1.0
		Beryllium, Total	0.02 u	MG/KG	0.02	1.0
		Cadmium, Total	0.03 u	MG/KG	0.03	1.0
		Chromium, Total	0.11	MG/KG	0.08	1.0
		Copper, Total	0.12 u	MG/KG	0.12	1.0
		Nickel, Total	0.12 u	MG/KG	0.12	1.0
		Lead, Total	0.21 u	MG/KG	0.21	1.0
		Antimony, Total	0.25 u	MG/KG	0.25	1.0
		Selenium, Total	0.37 u	MG/KG	0.37	1.0
		Thallium, Total	0.53 u	MG/KG	0.53	1.0
		Vanadium, Total	0.06 u	MG/KG	0.06	1.0
		Zinc, Total	0.15	MG/KG	0.08	1.0
BLANK1	99C0282-MB1	Mercury, Total	0.02 u	MG/KG	0.02	1.0

006

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INORGANICS ACCURACY REPORT 11/08/99

CLIENT: TNU-HANFORD B99-078

RECRA LOT #: 9909L049

WORK ORDER: 10985-001-001-9999-00

SAMPLE	SITE ID	ANALYTE	SPIKED	INITIAL	SPIKED	%RECOV	DILUTION
			SAMPLE	RESULT	AMOUNT		FACTOR (SPK)
-001	B0W9M1	Silver, Total	5.0	0.1 u	5.4	92.6	1.0
		Arsenic, Total	204	2.7	215	93.7	1.0
		Barium, Total	289	71.7	215	101.0	1.0
		Beryllium, Total	5.2	0.18	5.4	93.0	1.0
		Cadmium, Total	5.8	0.94	5.4	90.1	1.0
		Chromium, Total	31.4	8.7	21.5	105.6	1.0
		Copper, Total	45.2	16.7	26.9	105.9	1.0
		Mercury, Total	0.22	0.02u	0.18	125.0	1.0
		Nickel, Total	59.7	8.7	53.8	94.8	1.0
		Lead, Total	59.0	11.7	53.8	87.9	1.0
		Antimony, Total	23.5	0.24u	53.8	43.7	1.0
		Selenium, Total	198	0.53	215	91.8	1.0
		Thallium, Total	200	1.4	215	92.6	1.0
		Vanadium, Total	117	63.2	53.8	99.3	1.0
		Zinc, Total	172	93.3	53.8	145.5	1.0

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INORGANICS PRECISION REPORT 11/08/99

CLIENT: TNU-HANFORD B99-078

RECRA LOT #: 9909L049

WORK ORDER: 10985-001-001-9999-00

SAMPLE	SITE ID	ANALYTE	INITIAL			DILUTION
			RESULT	REPLICATE	RPD	FACTOR (REP)
-001REP	BOW9M1	Silver, Total	0.1 u	0.11u	NC	1.0
		Arsenic, Total	2.7	2.8	3.6	1.0
		Barium, Total	71.7	68.5	4.6	1.0
		Beryllium, Total	0.18	0.15	19.3	1.0
		Cadmium, Total	0.94	0.58	47.5	1.0
		Chromium, Total	8.7	8.4	3.5	1.0
		Copper, Total	16.7	20.5	20.4	1.0
		Mercury, Total	0.02u	0.03	NC	1.0
		Nickel, Total	8.7	7.6	13.5	1.0
		Lead, Total	11.7	8.3	34.0	1.0
		Antimony, Total	0.24u	0.28u	NC	1.0
		Selenium, Total	0.53	0.55	2.6	1.0
		Thallium, Total	1.4	1.1	24.0	1.0
		Vanadium, Total	63.2	55.9	12.3	1.0
		Zinc, Total	93.3	92.1	1.3	1.0

200
DEM 11/10/99

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INORGANICS LABORATORY CONTROL STANDARDS REPORT 11/08/99

CLIENT: TNU-HANFORD B99-078
 WORK ORDER: 10985-001-001-9999-00

RECRA LOT #: 9909L049

SAMPLE	SITE ID	ANALYTE	SPIKED	SPIKED	UNITS	%RECOV
			SAMPLE	AMOUNT		
LCS1	99L0657-LC1	Silver, LCS	49.5	50.0	MG/KG	99.0
		Arsenic, LCS	972	1000	MG/KG	97.2
		Barium, LCS	494	500	MG/KG	98.8
		Beryllium, LCS	24.2	25.0	MG/KG	96.8
		Cadmium, LCS	24.5	25.0	MG/KG	98.0
		Chromium, LCS	50.0	50.0	MG/KG	100
		Copper, LCS	124	125	MG/KG	98.9
		Nickel, LCS	196	200	MG/KG	98.0
		Lead, LCS	244	250	MG/KG	97.5
		Antimony, LCS	294	300	MG/KG	97.9
		Selenium, LCS	948	1000	MG/KG	94.8
		Thallium, LCS	983	1000	MG/KG	98.3
		Vanadium, LCS	254	250	MG/KG	101.8
		Zinc, LCS	96.1	100	MG/KG	96.1
LCS1	99C0282-LC1	Mercury, LCS	1.0	1.0	MG/KG	105.0

009

Recra LabNet - Lionville Laboratory
 INORGANIC ANALYTICAL DATA PACKAGE FOR
 TNU-HANFORD B99-078

DATE RECEIVED: 09/10/99

RFW LOT # :9909L049

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B0W9M1						
SILVER, TOTAL	001	S	99L0657	09/07/99	09/28/99	10/05/99
SILVER, TOTAL	001 REP	S	99L0657	09/07/99	09/28/99	10/05/99
SILVER, TOTAL	001 MS	S	99L0657	09/07/99	09/28/99	10/05/99
ARSENIC, TOTAL	001	S	99L0657	09/07/99	09/28/99	10/05/99
ARSENIC, TOTAL	001 REP	S	99L0657	09/07/99	09/28/99	10/05/99
ARSENIC, TOTAL	001 MS	S	99L0657	09/07/99	09/28/99	10/05/99
BARIUM, TOTAL	001	S	99L0657	09/07/99	09/28/99	10/05/99
BARIUM, TOTAL	001 REP	S	99L0657	09/07/99	09/28/99	10/05/99
BARIUM, TOTAL	001 MS	S	99L0657	09/07/99	09/28/99	10/05/99
BERYLLIUM, TOTAL	001	S	99L0657	09/07/99	09/28/99	10/05/99
BERYLLIUM, TOTAL	001 REP	S	99L0657	09/07/99	09/28/99	10/05/99
BERYLLIUM, TOTAL	001 MS	S	99L0657	09/07/99	09/28/99	10/05/99
CADMIUM, TOTAL	001	S	99L0657	09/07/99	09/28/99	10/05/99
CADMIUM, TOTAL	001 REP	S	99L0657	09/07/99	09/28/99	10/05/99
CADMIUM, TOTAL	001 MS	S	99L0657	09/07/99	09/28/99	10/05/99
CHROMIUM, TOTAL	001	S	99L0657	09/07/99	09/28/99	10/05/99
CHROMIUM, TOTAL	001 REP	S	99L0657	09/07/99	09/28/99	10/05/99
CHROMIUM, TOTAL	001 MS	S	99L0657	09/07/99	09/28/99	10/05/99
COPPER, TOTAL	001	S	99L0657	09/07/99	09/28/99	10/05/99
COPPER, TOTAL	001 REP	S	99L0657	09/07/99	09/28/99	10/05/99
COPPER, TOTAL	001 MS	S	99L0657	09/07/99	09/28/99	10/05/99
MERCURY, TOTAL	001	S	99C0282	09/07/99	09/30/99	10/01/99
MERCURY, TOTAL	001 REP	S	99C0282	09/07/99	09/30/99	10/01/99
MERCURY, TOTAL	001 MS	S	99C0282	09/07/99	09/30/99	10/01/99
NICKEL, TOTAL	001	S	99L0657	09/07/99	09/28/99	10/05/99
NICKEL, TOTAL	001 REP	S	99L0657	09/07/99	09/28/99	10/05/99
NICKEL, TOTAL	001 MS	S	99L0657	09/07/99	09/28/99	10/05/99
LEAD, TOTAL	001	S	99L0657	09/07/99	09/28/99	10/05/99
LEAD, TOTAL	001 REP	S	99L0657	09/07/99	09/28/99	10/05/99
LEAD, TOTAL	001 MS	S	99L0657	09/07/99	09/28/99	10/05/99
ANTIMONY, TOTAL	001	S	99L0657	09/07/99	09/28/99	10/05/99
ANTIMONY, TOTAL	001 REP	S	99L0657	09/07/99	09/28/99	10/05/99
ANTIMONY, TOTAL	001 MS	S	99L0657	09/07/99	09/28/99	10/05/99
SELENIUM, TOTAL	001	S	99L0657	09/07/99	09/28/99	10/05/99
SELENIUM, TOTAL	001 REP	S	99L0657	09/07/99	09/28/99	10/05/99

Recra LabNet - Lionville Laboratory
 INORGANIC ANALYTICAL DATA PACKAGE FOR
 TNU-HANFORD B99-078

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RFW LOT # :9909L049

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
SELENIUM, TOTAL	001 MS	S	99L0657	09/07/99	09/28/99	10/05/99
THALLIUM, TOTAL	001	S	99L0657	09/07/99	09/28/99	10/05/99
THALLIUM, TOTAL	001 REP	S	99L0657	09/07/99	09/28/99	10/05/99
THALLIUM, TOTAL	001 MS	S	99L0657	09/07/99	09/28/99	10/05/99
VANADIUM, TOTAL	001	S	99L0657	09/07/99	09/28/99	10/05/99
VANADIUM, TOTAL	001 REP	S	99L0657	09/07/99	09/28/99	10/05/99
VANADIUM, TOTAL	001 MS	S	99L0657	09/07/99	09/28/99	10/05/99
ZINC, TOTAL	001	S	99L0657	09/07/99	09/28/99	10/05/99
ZINC, TOTAL	001 REP	S	99L0657	09/07/99	09/28/99	10/05/99
ZINC, TOTAL	001 MS	S	99L0657	09/07/99	09/28/99	10/05/99

LAB QC:

SILVER LABORATORY	LC1 BS	S	99L0657	N/A	09/28/99	10/05/99
SILVER, TOTAL	MB1	S	99L0657	N/A	09/28/99	10/05/99
ARSENIC LABORATORY	LC1 BS	S	99L0657	N/A	09/28/99	10/05/99
ARSENIC, TOTAL	MB1	S	99L0657	N/A	09/28/99	10/05/99
BARIUM LABORATORY	LC1 BS	S	99L0657	N/A	09/28/99	10/05/99
BARIUM, TOTAL	MB1	S	99L0657	N/A	09/28/99	10/05/99
BERYLLIUM LABORATORY	LC1 BS	S	99L0657	N/A	09/28/99	10/05/99
BERYLLIUM, TOTAL	MB1	S	99L0657	N/A	09/28/99	10/05/99
CADMIUM LABORATORY	LC1 BS	S	99L0657	N/A	09/28/99	10/05/99
CADMIUM, TOTAL	MB1	S	99L0657	N/A	09/28/99	10/05/99
CHROMIUM LABORATORY	LC1 BS	S	99L0657	N/A	09/28/99	10/05/99
CHROMIUM, TOTAL	MB1	S	99L0657	N/A	09/28/99	10/05/99
COPPER LABORATORY	LC1 BS	S	99L0657	N/A	09/28/99	10/05/99
COPPER, TOTAL	MB1	S	99L0657	N/A	09/28/99	10/05/99
MERCURY LABORATORY	LC1 BS	S	99C0282	N/A	09/30/99	10/01/99
MERCURY, TOTAL	MB1	S	99C0282	N/A	09/30/99	10/01/99
NICKEL LABORATORY	LC1 BS	S	99L0657	N/A	09/28/99	10/05/99
NICKEL, TOTAL	MB1	S	99L0657	N/A	09/28/99	10/05/99
LEAD LABORATORY	LC1 BS	S	99L0657	N/A	09/28/99	10/05/99
LEAD, TOTAL	MB1	S	99L0657	N/A	09/28/99	10/05/99
ANTIMONY LABORATORY	LC1 BS	S	99L0657	N/A	09/28/99	10/05/99
ANTIMONY, TOTAL	MB1	S	99L0657	N/A	09/28/99	10/05/99
SELENIUM LABORATORY	LC1 BS	S	99L0657	N/A	09/28/99	10/05/99
SELENIUM, TOTAL	MB1	S	99L0657	N/A	09/28/99	10/05/99
THALLIUM LABORATORY	LC1 BS	S	99L0657	N/A	09/28/99	10/05/99

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CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
THALLIUM, TOTAL	MB1	S	99L0657	N/A	09/28/99	10/05/99
VANADIUM LABORATORY	LC1 BS	S	99L0657	N/A	09/28/99	10/05/99
VANADIUM, TOTAL	MB1	S	99L0657	N/A	09/28/99	10/05/99
ZINC LABORATORY	LC1 BS	S	99L0657	N/A	09/28/99	10/05/99
ZINC, TOTAL	MB1	S	99L0657	N/A	09/28/99	10/05/99

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			B99-078-109	Page 1 of 2 820 9-7-99
Collector Bowers/Porter/Nielson	Company Contact Chris Cearlock	Telephone No. 372-9574	Project Coordinator TRENT, SJ	Price Code 8N	Data Turnaround 45 Days	
Project Designation 200 Area Source characterization - 200-CW-1 OU	Sampling Location GP-1	SAF No. B99-078				
Ice Chest No. ERC 99-009	Field Logbook No. EL-1511	Method of Shipment gov vehicle FED EX				
Shipped To TMA/RECRA 830 9-7-99	Offsite Property No. N/A	Bill of Lading/Air Bill No. N/A				
COA B200W1671C						

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	Cool 4C	None							
	Type of Container	aG	aG							
	No. of Container(s)	1	1							
	Special Handling and/or Storage	Volume	500mL	1000mL						

SAMPLE ANALYSIS		See item (1) in Special Instructions.	See item (2) in Special Instructions.							
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Sample No.	Matrix *	Sample Date	Sample Time							
BOW9M0	Soil	9-7-99	0840	X						
BOW9M1	Soil	9-7-99	0852	X						
BOW9M2 1/5 9999	Soil	9-7-99	0900	X						
BOW9M3 1/4 9999	Soil	9-7-99	0924	X						
BOW9M4 1/4 9999	Soil	9-7-99	0936	X						

CHAIN OF POSSESSION	Sign/Print Names		SPECIAL INSTRUCTIONS See chain of custody comments on SAF B99-078.				Matrix *
Relinquished By <i>Doug Bowers</i> Date/Time <i>9-7-99/1600</i>	Received By <i>R.P.B</i> Date/Time <i>9-7-99/1600</i>		(1) ICP Metals - 6010A (Supertrace) {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; ICP Metals - 6010A (Supertrace Add-On) {Beryllium, Copper, Nickel, Vanadium, Zinc}; Mercury - 7471 - (CV); Chromium Hex - 7196 (2) Gamma Spec - Complete {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} COLLECTOR UNAVAILABLE TO SIGN COC				Soil Water Vapor Other Solid Other Liquid
Relinquished By <i>REF ID 9999</i> Date/Time <i>1000</i>	Received By <i>SJONE/DP/SL</i> Date/Time <i>9999 1000</i>						
Relinquished By <i>SIGALE</i> Date/Time <i>9999 1000</i>	Received By <i>FED EX</i> Date/Time						
Relinquished By <i>FED EX</i> Date/Time <i>9-10-99 0945</i>	Received By <i>JMurray</i> Date/Time <i>9-10-99 0945</i>						

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

DIT 013