0059285

SAF-B02-024
618-4 Burial Ground – Anomalous Waste (Solids)
FINAL DATA PACKAGE

FAX RESULTS TO:

Jeff Lerch 373-5373 _____N/A_____
INITIAL/DATE

VERIFICATION OF CLIENT RECEIPT:

Phone or CC:Mail to Jeff Lerch _____N/A_____
INITIAL/DATE

MAIL COMPLETE COPY OF DATA PACKAGE TO:

Jeff Lerch L6-06 _____N/A_____
INITIAL/DATE

COMMENTS: (PLEASE INCLUDE THE FOLLOWING ON THE FAX COVER SHEET)

SDG _____H2037____ SAF-B02-024

Rad only X Chem only Rad & Chem

X Complete Partial

RECEIVED
MAY 13 2003
EDMC

LIONVILLE LABORATORY INC.

29 January 2003

Joan Kessner
Bechtel-Hanford, Inc.
3190 Washington Way
MSIN H9-03
Richland, WA 99352

Subject: Contract No. 630
Analytical Data Package

Dear Ms. Kessner:

Enclosed are the hard copy analytical reports for the batch number/fraction indicated (marked X) in the following table:

LvLI Batch #	0301L431
SDG #	H2037
SAF #	~~B03-024~~ B03-024 nc 2/4/03
Date Received	1-3-02
# Samples	2
Matrix	Other Solid
Volatiles	
Semivolatiles	
Pest/PCB	
DRO	
GRO	
Metals	X
Inorganics	

The electronic data deliverable (EDD) will be emailed shortly. If you have any questions, please don't hesitate to contact me at (610) 280-3012.

Sincerely,
Lionville Laboratory Incorporated

Orlette S. Johnson
Project Manager

RECEIVED
FEB 2003

r:\group\pm\orlette\tnu-hanford\data\b_ltrs.doc

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Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD B02-024 H2037

DATE RECEIVED: 01/03/03 LVL LOT # :0301L431

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
J00CJ3						
TCLP	001	SO	03LTO003	12/20/02	01/07/03	01/08/03
J00CJ5						
TCLP	002	SO	03LTO003	12/20/02	01/07/03	01/08/03
J00CJ3						
SILVER, TCLP LEACHAT	003	W	03L0004	01/08/03	01/08/03	01/08/03
SILVER, TCLP LEACHAT	003 REP	W	03L0004	01/08/03	01/08/03	01/08/03
ARSENIC, TCLP LEACHA	003	W	03L0004	01/08/03	01/08/03	01/08/03
ARSENIC, TCLP LEACHA	003 REP	W	03L0004	01/08/03	01/08/03	01/08/03
BARIUM, TCLP LEACHAT	003	W	03L0004	01/08/03	01/08/03	01/08/03
BARIUM, TCLP LEACHAT	003 REP	W	03L0004	01/08/03	01/08/03	01/08/03
CADMIUM, TCLP LEACHA	003	W	03L0004	01/08/03	01/08/03	01/08/03
CADMIUM, TCLP LEACHA	003 REP	W	03L0004	01/08/03	01/08/03	01/08/03
CHROMIUM, TCLP LEACH	003	W	03L0004	01/08/03	01/08/03	01/08/03
CHROMIUM, TCLP LEACH	003 REP	W	03L0004	01/08/03	01/08/03	01/08/03
MERCURY, TCLP LEACHA	003	W	03C0002	01/08/03	01/08/03	01/09/03
MERCURY, TCLP LEACHA	003 REP	W	03C0002	01/08/03	01/08/03	01/09/03
MERCURY, TCLP LEACHA	003 MS	W	03C0002	01/08/03	01/08/03	01/09/03
LEAD, TCLP LEACHATE	003	W	03L0004	01/08/03	01/08/03	01/08/03
LEAD, TCLP LEACHATE	003 REP	W	03L0004	01/08/03	01/08/03	01/08/03
SELENIUM, TCLP LEACH	003	W	03L0004	01/08/03	01/08/03	01/08/03
SELENIUM, TCLP LEACH	003 REP	W	03L0004	01/08/03	01/08/03	01/08/03
J00CJ5						
SILVER, TCLP LEACHAT	004	W	03L0004	01/08/03	01/08/03	01/08/03
SILVER, TCLP LEACHAT	004 MS	W	03L0004	01/08/03	01/08/03	01/08/03
ARSENIC, TCLP LEACHA	004	W	03L0004	01/08/03	01/08/03	01/08/03
ARSENIC, TCLP LEACHA	004 MS	W	03L0004	01/08/03	01/08/03	01/08/03
BARIUM, TCLP LEACHAT	004	W	03L0004	01/08/03	01/08/03	01/08/03
BARIUM, TCLP LEACHAT	004 MS	W	03L0004	01/08/03	01/08/03	01/08/03
CADMIUM, TCLP LEACHA	004	W	03L0004	01/08/03	01/08/03	01/08/03

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD B02-024 H2037

DATE RECEIVED: 01/03/03 LVL LOT # :0301L431

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
CADMIUM, TCLP LEACHA	004 MS	W	03L0004	01/08/03	01/08/03	01/08/03
CHROMIUM, TCLP LEACH	004	W	03L0004	01/08/03	01/08/03	01/08/03
CHROMIUM, TCLP LEACH	004 MS	W	03L0004	01/08/03	01/08/03	01/08/03
MERCURY, TCLP LEACHA	004	W	03C0002	01/08/03	01/08/03	01/09/03
LEAD, TCLP LEACHATE	004	W	03L0004	01/08/03	01/08/03	01/08/03
LEAD, TCLP LEACHATE	004 MS	W	03L0004	01/08/03	01/08/03	01/08/03
SELENIUM, TCLP LEACH	004	W	03L0004	01/08/03	01/08/03	01/08/03
SELENIUM, TCLP LEACH	004 MS	W	03L0004	01/08/03	01/08/03	01/08/03

LAB QC:

SILVER LABORATORY	LC1 BS	W	03L0004	N/A	01/08/03	01/08/03
SILVER, TCLP LEACHAT	MB1	W	03L0004	N/A	01/08/03	01/08/03
SILVER, TCLP LEACHAT	MB2	W	03L0004	N/A	01/08/03	01/08/03
ARSENIC LABORATORY	LC1 BS	W	03L0004	N/A	01/08/03	01/08/03
ARSENIC, TCLP LEACHA	MB1	W	03L0004	N/A	01/08/03	01/08/03
ARSENIC, TCLP LEACHA	MB2	W	03L0004	N/A	01/08/03	01/08/03
BARIUM LABORATORY	LC1 BS	W	03L0004	N/A	01/08/03	01/08/03
BARIUM, TCLP LEACHAT	MB1	W	03L0004	N/A	01/08/03	01/08/03
BARIUM, TCLP LEACHAT	MB2	W	03L0004	N/A	01/08/03	01/08/03
CADMIUM LABORATORY	LC1 BS	W	03L0004	N/A	01/08/03	01/08/03
CADMIUM, TCLP LEACHA	MB1	W	03L0004	N/A	01/08/03	01/08/03
CADMIUM, TCLP LEACHA	MB2	W	03L0004	N/A	01/08/03	01/08/03
CHROMIUM LABORATORY	LC1 BS	W	03L0004	N/A	01/08/03	01/08/03
CHROMIUM, TCLP LEACH	MB1	W	03L0004	N/A	01/08/03	01/08/03
CHROMIUM, TCLP LEACH	MB2	W	03L0004	N/A	01/08/03	01/08/03
MERCURY LABORATORY	LC1 BS	W	03C0002	N/A	01/08/03	01/09/03
MERCURY, TOTAL	MB1	W	03C0002	N/A	01/08/03	01/09/03
MERCURY, TCLP LEACHA	MB2	W	03C0002	N/A	01/08/03	01/09/03
MERCURY, TCLP LEACHA	MB3	W	03C0002	N/A	01/08/03	01/09/03
LEAD LABORATORY	LC1 BS	W	03L0004	N/A	01/08/03	01/08/03
LEAD, TCLP LEACHATE	MB1	W	03L0004	N/A	01/08/03	01/08/03
LEAD, TCLP LEACHATE	MB2	W	03L0004	N/A	01/08/03	01/08/03
SELENIUM LABORATORY	LC1 BS	W	03L0004	N/A	01/08/03	01/08/03
SELENIUM, TCLP LEACH	MB1	W	03L0004	N/A	01/08/03	01/08/03
SELENIUM, TCLP LEACH	MB2	W	03L0004	N/A	01/08/03	01/08/03

LIONVILLE LABORATORY INC.

Analytical Report

Client: TNU-HANFORD B02-024
LVL#: 0301L431
SDG/SAF#: H2037/B02-024

W.O.#: 11343-606-001-9999-00
Date Received: 01-03-03

METALS CASE NARRATIVE

1. This narrative covers the analyses of 2 TCLP leachate samples.

2. The samples were prepared and analyzed in accordance with methods checked on the attached glossary.

3. All analyses were performed within the required holding times.

4. Please refer to the Sample Receipt Check List for sample discrepancies in LvLI's sample acceptance policy.

5. All Initial and Continuing Calibration Verifications (ICV/CCVs) were within the 90-110% control limits.

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), MB value less than 5% of the RCRA limit, 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 80-120% control limits. Refer to the Inorganics Laboratory Control Standards Report.

10. The duplicate analysis for 1 analyte was outside the 20% Relative Percent Difference (RPD) control limits. Refer to the Inorganics Precision Report.

11. The TCLP extract from samples J00CJ3 and J00CJ5 were selected for the matrix spikes (MS) for this analytical batch. All MS recoveries were greater than 50% as per method criteria.

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 14 pages.

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12. 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.

13. I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard-copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.

Pat

Iain Daniels
Laboratory Manager
Lionville Laboratory Incorporated

01-17-03
Date

gmb/m01-431

LVLI
LIONVILLE LABORATORY INC.

METALS METHOD GLOSSARY

The following methods are used as reference for the digestion and analysis of samples contained within this Lot#: 0201L431

Leaching Procedure: __1310 ✓1311 __1312 __Other:_____

CLP Metals __ Digestion and __ Analysis Methods: __ILM03.0 __ILM04.0

Metals Digestion Methods: __3005A ✓3010A __3015 __3020A __3050B __3051 __200.7 __SS17
__Other: _____

Metals Analysis Methods

	SW846		EPA		STD MTD	EPA OSWR	USATHAMA
Aluminum	__6010B		__200.7				__99
Antimony	__6010B	__7041 [5]	__200.7	__204.2			__99
Arsenic	✓6010B	__7060A [5]	__200.7	__206.2	__3113B		__99
Barium	__6010B		__200.7				__99
Beryllium	__6010B		__200.7				__99
Bismuth	__6010B [1]		__200.7 [1]			__1620	__99
Boron	✓6010B		__200.7				__99
Cadmium	✓6010B	__7131A [5]	__200.7	__213.2			__99
Calcium	✓6010B		__200.7				__99
Chromium	✓6010B	__7191 [5]	__200.7	__218.2			__SS17
Cobalt	__6010B		__200.7				__99
Copper	✓6010B	__7211 [5]	__200.7	__220.2			__99
Iron	✓6010B		__200.7				__99
Lead	✓6010B	__7421 [5]	__200.7	__239.2	__3113B		__99
Lithium	__6010B	__7430 [4]	__200.7			__1620	__99
Magnesium	✓6010B		__200.7				__99
Manganese	✓6010B		__200.7				__99
Mercury	✓7470A [3]	__7471A [3]	__245.1 [2]	__245.5 [2]			__99
Molybdenum	__6010B		__200.7				__99
Nickel	__6010B		__200.7				__99
Potassium	__6010B	__7610 [4]	__200.7	__258.1 [4]			__99
Rare Earths	✓6010B [1]		__200.7 [1]			__1620	__99
Selenium	✓6010B	__7740 [5]	__200.7	__270.2	__3113B		__99
Silicon	__6010B [1]		__200.7			__1620	__99
Silica	✓6010B		__200.7			__1620	__99
Silver	✓6010B	__7761 [5]	__200.7	__272.2			__99
Sodium	__6010B	__7770 [4]	__200.7	__273.1 [4]			__99
Strontium	__6010B		__200.7				__99
Thallium	__6010B	__7841 [5]	__200.7	__279.2__200.9			__99
Tin	__6010B		__200.7				__99
Titanium	__6010B		__200.7				__99
Uranium	__6010B [1]		__200.7 [1]			__1620	__99
Vanadium	__6010B		__200.7				__99
Zinc	__6010B		__200.7				__99
Zirconium	__6010B [1]		__200.7 [1]			__1620	__99

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

Lionville Laboratory, Inc.

INORGANICS ACCURACY REPORT 01/10/03

CLIENT: TNUHANFORD B02-024 H2037

LVL LOT #: 0301L431

WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	INITIAL RESULT	SPIKED AMOUNT	%RECOV	DILUTION FACTOR(SPK)
-003	J00CJ3	Mercury, TCLP Leachate	201	0.10u	200	100.4	50.0
-004	J00CJ5	Silver, TCLP Leachate	4820	3.0 u	5000	96.4	1.0
		Arsenic, TCLP Leachate	4860	41.7 u	5000	97.3	1.0
		Barium, TCLP Leachate	104000	1080	100000	103.0	5.0
		Cadmium, TCLP Leachate	917	5.4 u	1000	91.7	1.0
		Chromium, TCLP Leachat	4800	4.8 u	5000	96.1	1.0
		Lead, TCLP Leachate	5380	674	5000	94.1	1.0
		Selenium, TCLP Leachat	1020	64.6 u	1000	102.5	1.0

Lionville Laboratory, Inc.

INORGANICS PRECISION REPORT 01/10/03

CLIENT: TNUHANFORD B02-024 H2037

LVL LOT #: 0301L431

WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	INITIAL RESULT	REPLICATE	RPD	DILUTION FACTOR(REP)
-003REP	J00CJ3	Silver, TCLP Leachate	3.0 u	3.0 u	NC	1.0
		Arsenic, TCLP Leachate	41.7 u	41.7 u	NC	1.0
		Barium, TCLP Leachate	1480	1480	0.13	1.0
		Cadmium, TCLP Leachate	9.6	5.4 u	NC 200	1.0
		Chromium, TCLP Leachate	6.7	5.7	16.1	1.0
		Mercury, TCLP Leachate	0.10u	0.10u	NC	1.0
		Lead, TCLP Leachate	2380	2360	0.67	1.0
		Selenium, TCLP Leachate	64.6 u	64.6 u	NC	1.0

1/17/03

Lionville Laboratory, Inc.

INORGANICS LABORATORY CONTROL STANDARDS REPORT 01/10/03

CLIENT: TNUHANFORD B02-024 H2037

LVL LOT #: 0301L431

WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	SPIKED AMOUNT	UNITS	%RECOV
LCS1	03L0004-LC1	Silver, LCS	503	500	UG/L	100.7
		Arsenic, LCS	10200	10000	UG/L	101.8
		Barium, LCS	5240	5000	UG/L	104.9
		Cadmium, LCS	247	250	UG/L	99.0
		Chromium, LCS	517	500	UG/L	103.3
		Lead, LCS	2500	2500	UG/L	100.1
		Selenium, LCS	10200	10000	UG/L	101.6
LCS1	03C0002-LC1	Mercury, LCS	5.3	5.0	UG/L	105.1

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 01/10/03

CLIENT: TNUHANFORD B02-024 H2037 LVL LOT #: 0301L431

WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT	DILUTION FACTOR
-003	J00CJ3	Silver, TCLP Leachate	3.0	u	UG/L	3.0	1.0
		Arsenic, TCLP Leachate	41.7	u	UG/L	41.7	1.0
		Barium, TCLP Leachate	1480		UG/L	3.6	1.0
		Cadmium, TCLP Leachate	9.6		UG/L	5.4	1.0
		Chromium, TCLP Leachate	6.7		UG/L	4.8	1.0
		Mercury, TCLP Leachate	0.10	u	UG/L	0.10	1.0
		Lead, TCLP Leachate	2380		UG/L	33.2	1.0
		Selenium, TCLP Leachate	64.6	u	UG/L	64.6	1.0
-004	J00CJ5	Silver, TCLP Leachate	3.0	u	UG/L	3.0	1.0
		Arsenic, TCLP Leachate	41.7	u	UG/L	41.7	1.0
		Barium, TCLP Leachate	1080		UG/L	3.6	1.0
		Cadmium, TCLP Leachate	5.4	u	UG/L	5.4	1.0
		Chromium, TCLP Leachate	4.8	u	UG/L	4.8	1.0
		Mercury, TCLP Leachate	0.10	u	UG/L	0.10	1.0
		Lead, TCLP Leachate	674		UG/L	33.2	1.0
		Selenium, TCLP Leachate	64.6	u	UG/L	64.6	1.0

Lionville Laboratory, Inc.

INORGANICS METHOD BLANK DATA SUMMARY PAGE 01/10/03

CLIENT: TNUHANFORD B02-024 H2037 LVL LOT #: 0301L431

WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT	DILUTION FACTOR
BLANK1	03L0004-MB1	Silver, TCLP Leachate	3.0	u	UG/L	3.0	1.0
		Arsenic, TCLP Leachate	41.7	u	UG/L	41.7	1.0
		Barium, TCLP Leachate	3.6	u	UG/L	3.6	1.0
		Cadmium, TCLP Leachate	5.4	u	UG/L	5.4	1.0
		Chromium, TCLP Leachate	4.8	u	UG/L	4.8	1.0
		Lead, TCLP Leachate	33.2	u	UG/L	33.2	1.0
		Selenium, TCLP Leachate	64.6	u	UG/L	64.6	1.0
BLANK2	03L0004-MB2	Silver, TCLP Leachate	3.0	u	UG/L	3.0	1.0
		Arsenic, TCLP Leachate	41.7	u	UG/L	41.7	1.0
		Barium, TCLP Leachate	3.6	u	UG/L	3.6	1.0
		Cadmium, TCLP Leachate	5.4	u	UG/L	5.4	1.0
		Chromium, TCLP Leachate	4.8	u	UG/L	4.8	1.0
		Lead, TCLP Leachate	33.2	u	UG/L	33.2	1.0
		Selenium, TCLP Leachate	64.6	u	UG/L	64.6	1.0
BLANK1	03C0002-MB1	Mercury, Total	0.10	u	UG/L	0.10	1.0
BLANK2	03C0002-MB2	Mercury, TCLP Leachate	0.10	u	UG/L	0.10	1.0
BLANK3	03C0002-MB3	Mercury, TCLP Leachate	0.10	u	UG/L	0.10	1.0

Lionville Laboratory Use Only
0301L431

Custody Transfer

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Client: TNU Hanford B02-024
Est. Final Proj. Sampling Date:
Project #: 11343-606-001-9999-00
Project Contact/Phone #:
Lionville Laboratory Project Manager: Orlette Johnson
QC: SPEC Del: STD TAT: 7 days

Date Rec'd: 1-3-03 Date Due: 1-10-03

Refrigerator #													A						
#/Type Container	Liquid												5						
	Solid												1						
Volume	Liquid												0						
	Solid												60						
Preservatives																			
ANALYSES REQUESTED →		ORGANIC										INORG				LEACHATES			
		VOA	BNA	Pest/PCB	Herb							Metal	CN						
		Lionville Laboratory Use Only																	
												ITCLP				RCRACW			

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	ITCLP	RCRACW
001	J00CJ3			SO	12-20-02	1320	X	
002	J00CJ5			⊥	⊥	1324	X	
003	J00CJ3 tclp of 001			L	*			✓
004	J00CJ5 tclp of 002			⊥	⊥			✓

Special Instructions: SAF # B02-024

Run Matrix QC

DATE/REVISIONS:
* 1. See labchron
2.
3.
4.
5.
6.

Lionville Laboratory Use Only

Samples were: 1) Shipped ✓ or Hand Delivered ___ Airbill # 791504331938
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Samples Properly Preserved Y or N
5) Received Within Holding Times Y or N

Tamper Resistant Seal was: 1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec't Y or N
Cooler Temp. 11.9 °C

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

Relinquished by	Received by	Date	Time
Fed Ex	[signature]	1.3.02	0945

Relinquished by	Received by	Date	Time
COMPOSITE WASTE		ORIGINAL REWRITTEN	

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		
Collector: Doug Bowers	Company Contact: Jeff Lerch	Telephone No.: 373-5904	Project Coordinator: KESSNER, JH
Price Code: 9J	Data Turnaround: 7 day	Air Quality ☐	
Project Designation: 618-4 Burial Ground - Anomalous Waste (Solids)	Sampling Location: 300-FF-1	SAF No.: B02-024	
Ice Chest No.: ERC 01-021	Field Logbook No.: EL-1395-7	COA: RG61842600	Method of Shipment: Fed EX
Shipped To: TMA/RECRA	Offsite Property No.: A030 102	Bill of Lading/Air Bill No.: SEE 03PC	

POSSIBLE SAMPLE HAZARDS/REMARKS

Radioactive
SEE Attached Report

Special Handling and/or Storage

None

Preservation	None										
Type of Container	sG										
No. of Container(s)	1										
Volume	60mL										

SAMPLE ANALYSIS

See item (1) in Special Instructions.

Sample No.	Matrix *	Sample Date	Sample Time	
J00CJ3	OTHER SOLID	12-20-02	1320	X
~~J00CJ4~~	~~OTHER SOLID~~	~~12-20-02~~	~~1322~~	~~X~~
J00CJ5	OTHER SOLID	12-20-02	1324	X
	OTHER SOLID			
	OTHER SOLID			

01-02-03

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Doug Bowers (Doug Bowers)	12-20-02/1600	Ref 1A 3728	12-20-02/1600
1A 3728	01-02-03 1200	R. Fields (R. Fields)	01-02-03 1200
R. Fields (R. Fields)	01-02-03 1200	Fed Ex	
(Fed Ex)	1-3-03/0945	(signature)	1-3-03/0945

SPECIAL INSTRUCTIONS

(1) Metals by ICP (TCLP) - 1311/6010 (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver); Mercury (TCLP) - 1311/7470

Personnel not available to relinquish samples from the [illegible]
Ref # 1A on 01/02/03

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
Wi=Wipe
L=Liquid
V=Vegetation
X=Other

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

BHI-EE-011 (03/01/2002)

LIONVILLE LABORATORY INCORPORATED
SAMPLE RECEIPT CHECKLIST

NT: TRU Hanford.

ase Order/Project:

DATE: 1-3-03

#/SOW# / Release #: B02-024

ratory SDG #: 0301L431

TE: ALL ENTRIES MARKED "NO" MUST BE EXPLAINED IN THE COMMENT SECTION

1. Custody seals on coolers or shipping container intact, signed and dated?	☒ Yes	☐ No	☐ N/A	☐ see Comment #
2. Outside of coolers or shipping containers are free from damage?	☒ Yes	☐ No	☐ N/A	☐ see Comment #
3. Airbill # recorded?	☒ Yes	☐ No	☐ N/A	☐ see Comment #
4. All expected paperwork received (coc and other client specific: historical data, alpha/beta or other screening data as applicable)? (paperwork sealed in plastic bag and taped to inside lid)	☒ Yes	☐ No	☐ N/A	☐ see Comment #
5. Sample containers are intact?	☒ Yes	☐ No	☐ N/A	☐ see Comment #
6. Custody seals on sample containers intact, signed and dated?	☒ Yes	☐ No	☐ N/A	☐ see Comment #
7. All samples on coc received?	☒ Yes	☐ No	☐ N/A	☐ see Comment #
8. All sample label information matches coc?	☒ Yes	☐ No	☐ N/A	☐ see Comment #
9. Laboratory QC samples designated on coc? (QC stickers placed on bottles?)	☐ Yes	☐ No	☒ N/A	☐ see Comment #
10. Shipment meets LvLJ Sample Acceptance Policy? (identify all bottles not within policy. See reverse side for policy)	~~☒ Yes~~ DV 1-3-03	☒ No	☐ N/A	☒ see Comment # 1
11. Where applicable, bar code labels are affixed to coc?	☐ Yes	☐ No	☒ N/A	☐ see Comment #
12. coc signed and dated?	☒ Yes	☐ No	☐ N/A	☐ see Comment #
13. coc will be faxed or emailed to client?	☑ Yes	☐ No	☐ N/A	☐ see Comment #
14. Project Manager/Client contacted concerning discrepancies? (name/date)	☐ Yes	☐ No	☑ N/A	☐ see Comment #

Cooler # / temp (°C) and Comments:

#CRC-01-021 / 11.9°C #1 samples rec'd @ 11.9°C

Laboratory Sample Custodian: [signature]

Laboratory Project Manager: