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Recra LabNet - Lionville Laboratory
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD B00-029 H1195

DATE RECEIVED: 12/21/00 RFW LOT # :0012L638

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B11381						
CHROMIUM, TOTAL	001	S	99L1854	12/19/00	12/27/00	01/01/01
CHROMIUM, TOTAL	001 REP	S	99L1854	12/19/00	12/27/00	01/01/01
CHROMIUM, TOTAL	001 MS	S	99L1854	12/19/00	12/27/00	01/01/01
MERCURY, TOTAL	001	S	01C0007	12/19/00	01/04/01	01/04/01
MERCURY, TOTAL	001 REP	S	01C0007	12/19/00	01/04/01	01/04/01
MERCURY, TOTAL	001 MS	S	01C0007	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	001	S	99L1854	12/19/00	12/27/00	01/01/01
LEAD, TOTAL	001 REP	S	99L1854	12/19/00	12/27/00	01/01/01
LEAD, TOTAL	001 MS	S	99L1854	12/19/00	12/27/00	01/01/01
B11382						
CHROMIUM, TOTAL	002	S	99L1854	12/19/00	12/27/00	01/01/01
MERCURY, TOTAL	002	S	01C0007	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	002	S	99L1854	12/19/00	12/27/00	01/01/01
B11383						
CHROMIUM, TOTAL	003	S	99L1854	12/19/00	12/27/00	01/01/01
MERCURY, TOTAL	003	S	01C0007	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	003	S	99L1854	12/19/00	12/27/00	01/01/01
B11384						
CHROMIUM, TOTAL	004	S	99L1854	12/19/00	12/27/00	01/01/01
MERCURY, TOTAL	004	S	01C0007	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	004	S	99L1854	12/19/00	12/27/00	01/01/01
B11337						
CHROMIUM, TOTAL	005	S	99L1854	12/19/00	12/27/00	01/01/01
MERCURY, TOTAL	005	S	01C0007	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	005	S	99L1854	12/19/00	12/27/00	01/01/01
B11338						
CHROMIUM, TOTAL	006	S	99L1854	12/19/00	12/27/00	01/01/01

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TNUHANFORD B00-029 H1195

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CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
MERCURY, TOTAL	006	S	01C0007	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	006	S	99L1854	12/19/00	12/27/00	01/01/01
B11339						
CHROMIUM, TOTAL	007	S	99L1854	12/19/00	12/27/00	01/01/01
MERCURY, TOTAL	007	S	01C0007	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	007	S	99L1854	12/19/00	12/27/00	01/01/01
B11340						
CHROMIUM, TOTAL	008	S	99L1854	12/19/00	12/27/00	01/01/01
MERCURY, TOTAL	008	S	01C0007	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	008	S	99L1854	12/19/00	12/27/00	01/01/01
B11341						
CHROMIUM, TOTAL	009	S	99L1854	12/19/00	12/27/00	01/01/01
MERCURY, TOTAL	009	S	01C0007	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	009	S	99L1854	12/19/00	12/27/00	01/01/01
B11342						
CHROMIUM, TOTAL	010	S	99L1854	12/19/00	12/27/00	01/01/01
MERCURY, TOTAL	010	S	01C0007	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	010	S	99L1854	12/19/00	12/27/00	01/01/01
B11343						
CHROMIUM, TOTAL	011	S	99L1854	12/19/00	12/27/00	01/01/01
MERCURY, TOTAL	011	S	01C0007	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	011	S	99L1854	12/19/00	12/27/00	01/01/01
B11344						
CHROMIUM, TOTAL	012	S	99L1854	12/19/00	12/27/00	01/01/01
MERCURY, TOTAL	012	S	01C0007	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	012	S	99L1854	12/19/00	12/27/00	01/01/01

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CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B11345						
CHROMIUM, TOTAL	013	S	99L1854	12/19/00	12/27/00	01/01/01
MERCURY, TOTAL	013	S	01C0007	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	013	S	99L1854	12/19/00	12/27/00	01/01/01
B11346						
CHROMIUM, TOTAL	014	S	99L1854	12/19/00	12/27/00	01/01/01
MERCURY, TOTAL	014	S	01C0007	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	014	S	99L1854	12/19/00	12/27/00	01/01/01
B11347						
CHROMIUM, TOTAL	015	S	99L1854	12/19/00	12/27/00	01/01/01
MERCURY, TOTAL	015	S	01C0007	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	015	S	99L1854	12/19/00	12/27/00	01/01/01
B11348						
CHROMIUM, TOTAL	016	S	99L1854	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	016	S	01C0007	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	016	S	99L1854	12/19/00	12/27/00	01/02/01
B11349						
CHROMIUM, TOTAL	017	S	99L1855	12/19/00	12/27/00	01/02/01
CHROMIUM, TOTAL	017 REP	S	99L1855	12/19/00	12/27/00	01/02/01
CHROMIUM, TOTAL	017 MS	S	99L1855	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	017	S	01C0008	12/19/00	01/04/01	01/04/01
MERCURY, TOTAL	017 REP	S	01C0008	12/19/00	01/04/01	01/04/01
MERCURY, TOTAL	017 MS	S	01C0008	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	017	S	99L1855	12/19/00	12/27/00	01/02/01
LEAD, TOTAL	017 REP	S	99L1855	12/19/00	12/27/00	01/02/01
LEAD, TOTAL	017 MS	S	99L1855	12/19/00	12/27/00	01/02/01
B11350						
CHROMIUM, TOTAL	018	S	99L1855	12/19/00	12/27/00	01/02/01

Recra LabNet - Lionville Laboratory
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD B00-029 H1195

DATE RECEIVED: 12/21/00 RFW LOT # :0012L638

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
MERCURY, TOTAL	018	S	01C0008	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	018	S	99L1855	12/19/00	12/27/00	01/02/01
B11351						
CHROMIUM, TOTAL	019	S	99L1855	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	019	S	01C0008	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	019	S	99L1855	12/19/00	12/27/00	01/02/01
B11352						
CHROMIUM, TOTAL	020	S	99L1855	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	020	S	01C0008	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	020	S	99L1855	12/19/00	12/27/00	01/02/01
B11353						
CHROMIUM, TOTAL	021	S	99L1855	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	021	S	01C0008	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	021	S	99L1855	12/19/00	12/27/00	01/02/01
B11354						
CHROMIUM, TOTAL	022	S	99L1855	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	022	S	01C0008	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	022	S	99L1855	12/19/00	12/27/00	01/02/01
B11355						
CHROMIUM, TOTAL	023	S	99L1855	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	023	S	01C0008	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	023	S	99L1855	12/19/00	12/27/00	01/02/01
B11356						
CHROMIUM, TOTAL	024	S	99L1855	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	024	S	01C0008	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	024	S	99L1855	12/19/00	12/27/00	01/02/01

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INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD B00-029 H1195

DATE RECEIVED: 12/21/00 RFW LOT # :0012L638

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B11357						
CHROMIUM, TOTAL	025	S	99L1855	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	025	S	01C0008	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	025	S	99L1855	12/19/00	12/27/00	01/02/01
B11358						
CHROMIUM, TOTAL	026	S	99L1855	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	026	S	01C0008	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	026	S	99L1855	12/19/00	12/27/00	01/02/01
B11359						
CHROMIUM, TOTAL	027	S	99L1855	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	027	S	01C0008	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	027	S	99L1855	12/19/00	12/27/00	01/02/01
B11360						
CHROMIUM, TOTAL	028	S	99L1855	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	028	S	01C0008	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	028	S	99L1855	12/19/00	12/27/00	01/02/01
B11361						
CHROMIUM, TOTAL	029	S	99L1855	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	029	S	01C0008	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	029	S	99L1855	12/19/00	12/27/00	01/02/01
B11362						
CHROMIUM, TOTAL	030	S	99L1855	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	030	S	01C0008	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	030	S	99L1855	12/19/00	12/27/00	01/02/01
B11363						
CHROMIUM, TOTAL	031	S	99L1855	12/19/00	12/27/00	01/02/01

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TNUHANFORD B00-029 H1195

DATE RECEIVED: 12/21/00 RFW LOT # :0012L638

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
MERCURY, TOTAL	031	S	01C0008	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	031	S	99L1855	12/19/00	12/27/00	01/02/01
B11364						
CHROMIUM, TOTAL	032	S	99L1855	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	032	S	01C0008	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	032	S	99L1855	12/19/00	12/27/00	01/02/01
B11365						
CHROMIUM, TOTAL	033	S	99L1856	12/19/00	12/27/00	01/02/01
CHROMIUM, TOTAL	033 REP	S	99L1856	12/19/00	12/27/00	01/02/01
CHROMIUM, TOTAL	033 MS	S	99L1856	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	033	S	01C0009	12/19/00	01/04/01	01/04/01
MERCURY, TOTAL	033 REP	S	01C0009	12/19/00	01/04/01	01/04/01
MERCURY, TOTAL	033 MS	S	01C0009	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	033	S	99L1856	12/19/00	12/27/00	01/02/01
LEAD, TOTAL	033 REP	S	99L1856	12/19/00	12/27/00	01/02/01
LEAD, TOTAL	033 MS	S	99L1856	12/19/00	12/27/00	01/02/01
B11366						
CHROMIUM, TOTAL	034	S	99L1856	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	034	S	01C0009	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	034	S	99L1856	12/19/00	12/27/00	01/02/01
B11367						
CHROMIUM, TOTAL	035	S	99L1856	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	035	S	01C0009	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	035	S	99L1856	12/19/00	12/27/00	01/02/01
B11368						
CHROMIUM, TOTAL	036	S	99L1856	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	036	S	01C0009	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	036	S	99L1856	12/19/00	12/27/00	01/02/01

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TNUHANFORD B00-029 H1195

DATE RECEIVED: 12/21/00 RFW LOT # :0012L638

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B11369						
CHROMIUM, TOTAL	037	S	99L1856	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	037	S	01C0009	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	037	S	99L1856	12/19/00	12/27/00	01/02/01
B11370						
CHROMIUM, TOTAL	038	S	99L1856	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	038	S	01C0009	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	038	S	99L1856	12/19/00	12/27/00	01/02/01
B11371						
CHROMIUM, TOTAL	039	S	99L1856	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	039	S	01C0009	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	039	S	99L1856	12/19/00	12/27/00	01/02/01
B11372						
CHROMIUM, TOTAL	040	S	99L1856	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	040	S	01C0009	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	040	S	99L1856	12/19/00	12/27/00	01/02/01
B11373						
CHROMIUM, TOTAL	041	S	99L1856	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	041	S	01C0009	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	041	S	99L1856	12/19/00	12/27/00	01/02/01
B11374						
CHROMIUM, TOTAL	042	S	99L1856	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	042	S	01C0009	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	042	S	99L1856	12/19/00	12/27/00	01/02/01
B11375						
CHROMIUM, TOTAL	043	S	99L1856	12/19/00	12/27/00	01/02/01

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TNUHANFORD B00-029 H1195

DATE RECEIVED: 12/21/00 RFW LOT # :0012L638

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
MERCURY, TOTAL	043	S	01C0009	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	043	S	99L1856	12/19/00	12/27/00	01/02/01
B11376						
CHROMIUM, TOTAL	044	S	99L1856	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	044	S	01C0009	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	044	S	99L1856	12/19/00	12/27/00	01/02/01
B11377						
CHROMIUM, TOTAL	045	S	99L1856	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	045	S	01C0009	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	045	S	99L1856	12/19/00	12/27/00	01/02/01
B11378						
CHROMIUM, TOTAL	046	S	99L1856	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	046	S	01C0009	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	046	S	99L1856	12/19/00	12/27/00	01/02/01
B11379						
CHROMIUM, TOTAL	047	S	99L1856	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	047	S	01C0009	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	047	S	99L1856	12/19/00	12/27/00	01/02/01
B11380						
CHROMIUM, TOTAL	048	S	99L1856	12/19/00	12/27/00	01/02/01
MERCURY, TOTAL	048	S	01C0009	12/19/00	01/04/01	01/04/01
LEAD, TOTAL	048	S	99L1856	12/19/00	12/27/00	01/02/01

LAB QC:

CHROMIUM LABORATORY	LC1 BS	S	99L1854	N/A	12/27/00	01/01/01
CHROMIUM, TOTAL	MB1	S	99L1854	N/A	12/27/00	01/01/01
MERCURY LABORATORY	LC1 BS	S	01C0007	N/A	01/04/01	01/04/01

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MERCURY, TOTAL	MB1	S	01C0007	N/A	01/04/01	01/04/01
LEAD LABORATORY	LC1 BS	S	99L1854	N/A	12/27/00	01/01/01
LEAD, TOTAL	MB1	S	99L1854	N/A	12/27/00	01/01/01
CHROMIUM LABORATORY	LC1 BS	S	99L1855	N/A	12/27/00	01/02/01
CHROMIUM, TOTAL	MB1	S	99L1855	N/A	12/27/00	01/02/01
MERCURY LABORATORY	LC1 BS	S	01C0008	N/A	01/04/01	01/04/01
MERCURY, TOTAL	MB1	S	01C0008	N/A	01/04/01	01/04/01
LEAD LABORATORY	LC1 BS	S	99L1855	N/A	12/27/00	01/02/01
LEAD, TOTAL	MB1	S	99L1855	N/A	12/27/00	01/02/01
CHROMIUM LABORATORY	LC1 BS	S	99L1856	N/A	12/27/00	01/02/01
CHROMIUM, TOTAL	MB1	S	99L1856	N/A	12/27/00	01/02/01
MERCURY LABORATORY	LC1 BS	S	01C0009	N/A	01/04/01	01/04/01
MERCURY, TOTAL	MB1	S	01C0009	N/A	01/04/01	01/04/01
LEAD LABORATORY	LC1 BS	S	99L1856	N/A	12/27/00	01/02/01
LEAD, TOTAL	MB1	S	99L1856	N/A	12/27/00	01/02/01

RECRA
ENVIRONMENTAL
INC.
Chemical and Environmental Measurement Information

Recra LabNet Philadelphia
Analytical Report

Client: TNU-HANFORD B00-029
RFW#: 0012L638
SDG/SAF#: H1195/B99-029

W.O.#: 10985-001-001-9999-00
Date Received: 12-21-00

METALS CASE NARRATIVE

1. This narrative covers the analyses of 48 soil 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. All cooler temperatures have 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), 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 form 7.

10. All matrix spike (MS) recoveries were within the 75-125% control limits. Refer to the Inorganics Accuracy Report.

11. The duplicate analysis for 1 analyte was outside the 20% Relative Percent Difference (RPD) control limits. Refer to the Inorganics Precision 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 A2 pages.

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.

J. Michael Taylor
VP, Laboratory General Manager
Lionville Laboratory

01-11-01
Date

gmb/m12-638

METALS METHOD GLOSSARY

The following methods are used as reference for the digestion and analysis of samples contained within this Recra Lot#: 0012L638

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:_____

L-WI-033/M-11/99

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

Recra LabNet - Lionville

INORGANICS DATA SUMMARY REPORT 01/05/01

CLIENT: TNUHANFORD B00-029 H1195 RECRA LOT #: 0012L638

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

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-001	B11381	Chromium, Total	9.7	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	3.2	MG/KG	0.23	1.0
-002	B11382	Chromium, Total	8.2	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	2.9	MG/KG	0.21	1.0
-003	B11383	Chromium, Total	9.7	MG/KG	0.07	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	3.3	MG/KG	0.24	1.0
-004	B11384	Chromium, Total	9.9	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	3.2	MG/KG	0.21	1.0
-005	B11337	Chromium, Total	7.2	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	2.2	MG/KG	0.19	1.0
-006	B11338	Chromium, Total	8.9	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	2.9	MG/KG	0.21	1.0

Recra LabNet - Lionville

INORGANICS DATA SUMMARY REPORT 01/05/01

CLIENT: TNUHANFORD B00-029 H1195 RECRA LOT #: 0012L638

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

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-007	B11339	Chromium, Total	8.9	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	2.8	MG/KG	0.21	1.0
-008	B11340	Chromium, Total	9.9	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	2.7	MG/KG	0.20	1.0
-009	B11341	Chromium, Total	10.2	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	3.1	MG/KG	0.21	1.0
-010	B11342	Chromium, Total	9.5	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	2.9	MG/KG	0.21	1.0
-011	B11343	Chromium, Total	20.6	MG/KG	0.12	1.0
		Mercury, Total	0.03 u	MG/KG	0.03	1.0
		Lead, Total	5.6	MG/KG	0.41	1.0
-012	B11344	Chromium, Total	10.6	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	2.9	MG/KG	0.22	1.0

Recra LabNet - Lionville

INORGANICS DATA SUMMARY REPORT 01/05/01

CLIENT: TNUHANFORD B00-029 H1195 RECRA LOT #: 0012L638

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

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-013	B11345	Chromium, Total	11.6	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	3.0	MG/KG	0.21	1.0
-014	B11346	Chromium, Total	9.3	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	2.7	MG/KG	0.20	1.0
-015	B11347	Chromium, Total	10.3	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	3.2	MG/KG	0.21	1.0
-016	B11348	Chromium, Total	9.5	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	2.8	MG/KG	0.21	1.0
-017	B11349	Chromium, Total	9.2	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	2.7	MG/KG	0.21	1.0
-018	B11350	Chromium, Total	8.2	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	2.8	MG/KG	0.21	1.0

Recra LabNet - Lionville

INORGANICS DATA SUMMARY REPORT 01/05/01

CLIENT: TNUHANFORD B00-029 H1195 RECRA LOT #: 0012L638

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

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-019	B11351	Chromium, Total	8.7	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	2.8	MG/KG	0.21	1.0
-020	B11352	Chromium, Total	6.9	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	2.7	MG/KG	0.20	1.0
-021	B11353	Chromium, Total	9.4	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	2.5	MG/KG	0.21	1.0
-022	B11354	Chromium, Total	10.3	MG/KG	0.06	1.0
		Mercury, Total	0.01 u	MG/KG	0.01	1.0
		Lead, Total	2.7	MG/KG	0.21	1.0
-023	B11355	Chromium, Total	9.1	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	2.6	MG/KG	0.20	1.0
-024	B11356	Chromium, Total	9.2	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	2.8	MG/KG	0.21	1.0

Recra LabNet - Lionville

INORGANICS DATA SUMMARY REPORT 01/05/01

CLIENT: TNUHANFORD B00-029 H1195 RECRA LOT #: 0012L638

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

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-025	B11357	Chromium, Total	8.8	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	2.5	MG/KG	0.20	1.0
-026	B11358	Chromium, Total	8.2	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	2.7	MG/KG	0.22	1.0
-027	B11359	Chromium, Total	9.2	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	2.8	MG/KG	0.20	1.0
-028	B11360	Chromium, Total	9.2	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	3.0	MG/KG	0.21	1.0
-029	B11361	Chromium, Total	10.3	MG/KG	0.07	1.0
		Mercury, Total	0.08	MG/KG	0.02	1.0
		Lead, Total	11.3	MG/KG	0.23	1.0
-030	B11362	Chromium, Total	12.0	MG/KG	0.06	1.0
		Mercury, Total	0.03	MG/KG	0.02	1.0
		Lead, Total	23.1	MG/KG	0.21	1.0

Recra LabNet - Lionville

INORGANICS DATA SUMMARY REPORT 01/05/01

CLIENT: TNUHANFORD B00-029 H1195 RECRA LOT #: 0012L638

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

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-031	B11363	Chromium, Total	9.8	MG/KG	0.06	1.0
		Mercury, Total	0.05	MG/KG	0.02	1.0
		Lead, Total	6.3	MG/KG	0.20	1.0
-032	B11364	Chromium, Total	10.2	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	3.1	MG/KG	0.21	1.0
-033	B11365	Chromium, Total	8.1	MG/KG	0.07	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	4.9	MG/KG	0.23	1.0
-034	B11366	Chromium, Total	6.5	MG/KG	0.07	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	2.9	MG/KG	0.23	1.0
-035	B11367	Chromium, Total	7.2	MG/KG	0.07	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	4.9	MG/KG	0.23	1.0
-036	B11368	Chromium, Total	4.2	MG/KG	0.07	1.0
		Mercury, Total	1.0	MG/KG	0.01	1.0
		Lead, Total	10.9	MG/KG	0.23	1.0

Recra LabNet - Lionville

INORGANICS DATA SUMMARY REPORT 01/05/01

CLIENT: TNUHANFORD B00-029 H1195 RECRA LOT #: 0012L638

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

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-037	B11369	Chromium, Total	5.8	MG/KG	0.06	1.0
		Mercury, Total	0.1	MG/KG	0.02	1.0
		Lead, Total	7.2	MG/KG	0.22	1.0
-038	B11370	Chromium, Total	5.6	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	4.2	MG/KG	0.21	1.0
-039	B11371	Chromium, Total	6.3	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	5.1	MG/KG	0.23	1.0
-040	B11372	Chromium, Total	6.8	MG/KG	0.07	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	3.1	MG/KG	0.23	1.0
-041	B11373	Chromium, Total	6.8	MG/KG	0.07	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	3.9	MG/KG	0.23	1.0
-042	B11374	Chromium, Total	5.7	MG/KG	0.06	1.0
		Mercury, Total	0.02	MG/KG	0.02	1.0
		Lead, Total	4.4	MG/KG	0.22	1.0

Recra LabNet - Lionville

INORGANICS DATA SUMMARY REPORT 01/05/01

CLIENT: TNUHANFORD B00-029 H1195 RECRA LOT #: 0012L638

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

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-043	B11375	Chromium, Total	6.2	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	2.9	MG/KG	0.23	1.0
-044	B11376	Chromium, Total	5.9	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	2.5	MG/KG	0.22	1.0
-045	B11377	Chromium, Total	5.8	MG/KG	0.06	1.0
		Mercury, Total	0.02	MG/KG	0.02	1.0
		Lead, Total	2.6	MG/KG	0.22	1.0
-046	B11378	Chromium, Total	6.4	MG/KG	0.06	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	2.7	MG/KG	0.22	1.0
-047	B11379	Chromium, Total	6.5	MG/KG	0.07	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	3.0	MG/KG	0.24	1.0
-048	B11380	Chromium, Total	5.8	MG/KG	0.07	1.0
		Mercury, Total	0.02 u	MG/KG	0.02	1.0
		Lead, Total	2.6	MG/KG	0.24	1.0

Recra LabNet - Lionville

INORGANICS METHOD BLANK DATA SUMMARY PAGE 01/05/01

CLIENT: TNUHANFORD B00-029 H1195 RECRA LOT #: 0012L638

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

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
BLANK1	99L1854-MB1	Chromium, Total	0.06 u	MG/KG	0.06	1.0
		Lead, Total	0.21 u	MG/KG	0.21	1.0
BLANK1	01C0007-MB1	Mercury, Total	0.02 u	MG/KG	0.02	1.0
BLANK1	99L1855-MB1	Chromium, Total	0.08	MG/KG	0.06	1.0
		Lead, Total	0.21 u	MG/KG	0.21	1.0
BLANK1	01C0008-MB1	Mercury, Total	0.02 u	MG/KG	0.02	1.0
BLANK1	99L1856-MB1	Chromium, Total	0.06 u	MG/KG	0.06	1.0
		Lead, Total	0.21 u	MG/KG	0.21	1.0
BLANK1	01C0009-MB1	Mercury, Total	0.02 u	MG/KG	0.02	1.0

RECRA LabNet Use Only
00121638

Custody Transfer Record/Lab Work Request

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

RECRA LabNet

Client: TRU: Hanford B00-029
Est. Final Proj. Sampling Date:
Project #:
Project Contact/Phone #:
RECRA Project Manager:
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

Refrigerator #																	
#/Type Container	Liquid																
	Solid																
Volume	Liquid																
	Solid																
Preservatives																	
ANALYSES REQUESTED		ORGANIC								INORG							
		VOA	BNA	Pest/PCB	Herb					Metal	CN						
		RECRA LabNet Use Only															
										Metals							

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												
021	B11353			S	12-19-00	0912								✓				
022	54					0915								✓				
023	55					0919								✓				
024	56					0917								✓				
025	57					0923								✓				
026	58					0926								✓				
027	59					0928								✓				
028	60					0930								✓				
029	61					0942								✓				
030	62					0945								✓				

Special Instructions:

DATE/REVISIONS:
1.
2.
3.
4.
5.
6.

Relinquished by	Received by	Date	Time
FedEx	TRappel	12-21-00	1030

Relinquished by	Received by	Date	Time

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

RECRA LabNet Use Only

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

COC Tape was:
1) Present on Outer Package Y or
2) Unbroken on Outer Package Y or
3) Present on Sample Y or
4) Unbroken on Sample Y or
COC Record Present Upon Sample Receipt Y or
Cooler Temp. ___

Recra LabNet - Lionville

INORGANICS PRECISION REPORT 01/05/01

CLIENT: TNUHANFORD B00-029 H1195 RECRA LOT #: 0012L638

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

SAMPLE	SITE ID	ANALYTE	INITIAL RESULT	REPLICATE	RPD	DILUTION FACTOR(REP)
-001REP	B11381	Chromium, Total	9.7	9.6	1.0	1.0
		Mercury, Total	0.02u	0.02u	NC	1.0
		Lead, Total	3.2	3.5	9.0	1.0
-017REP	B11349	Chromium, Total	9.2	9.6	4.3	1.0
		Mercury, Total	0.02u	0.02u	NC	1.0
		Lead, Total	2.7	2.8	3.6	1.0
-033REP	B11365	Chromium, Total	8.1	6.2	26.6	1.0
		Mercury, Total	0.02u	0.02u	NC	1.0
		Lead, Total	4.9	4.7	4.2	1.0

Recra LabNet - Lionville

INORGANICS LABORATORY CONTROL STANDARDS REPORT 01/05/01

CLIENT: TNUHANFORD B00-029 H1195 RECRA LOT #: 0012L638

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

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	SPIKED AMOUNT	UNITS	%RECOV
LCS1	99L1854-LC1	Chromium, LCS	51.4	50.0	MG/KG	102.8
		Lead, LCS	247	250	MG/KG	98.9
LCS1	01C0007-LC1	Mercury, LCS	2.8	2.5	MG/KG	114.4
LCS1	99L1855-LC1	Chromium, LCS	51.1	50.0	MG/KG	102.2
		Lead, LCS	248	250	MG/KG	99.2
LCS1	01C0008-LC1	Mercury, LCS	2.7	2.5	MG/KG	108.3
LCS1	99L1856-LC1	Chromium, LCS	51.4	50.0	MG/KG	102.8
		Lead, LCS	251	250	MG/KG	100.4
LCS1	01C0009-LC1	Mercury, LCS	2.8	2.5	MG/KG	113.0

RECRA LabNet Use Only
00121638

Custody Transfer Record/Lab Work Request

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

RECRA LabNet

Client: TPU-Hanford 200-029
Est. Final Proj. Sampling Date:
Project #: 109.85-001-001-9999.00
Project Contact/Phone #:
RECRA Project Manager: GJ
QC: Std Del: Std TAT: 7 day
Date Rec'd: 12-21-00 Date Due: 12-28-00
Account #:

		A
Refrigerator #		6
#/Type Container	Liquid	
	Solid	1AG
Volume	Liquid	
	Solid	100
Preservatives		-

ANALYSES REQUESTED → ORGANIC: VOA, BNA, Pest/PCB, Herb; INORG: Metal, CN

RECRA LabNet Use Only: 1 Metal

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	Metal
001	B11381			S	12/19/00	0919	✓
002	82					0917	✓
003	83					0915	✓
004	84					0913	✓
005	37					0815	✓
006	38					0819	✓
007	39					0822	✓
008	40					0826	✓
009	41					0829	✓
010	42					0834	✓

Special Instructions: Saf 200-029
Run Matrix QC

DATE/REVISIONS:
Mt 1. Cr, Pb, Hg
2.
3.
4.
5.
6.

RECRA LabNet Use Only

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

COC Tape 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'd (Y) or N
Cooler Temp. ___

Discrepancies Between Samples Labels and COC Record? Y or (N)
NOTES: 8226 2526 0762 -3.5°C 8115 1101 3798 -4°C

Relinquished by	Received by	Date	Time
FedEx	TBoppel	12/21/00	1030

Relinquished by	Received by	Date	Time
COMPOSITE WASTE	ORIGINAL REWRITTEN		

RECRA LabNet Use Only
0012L638

Custody Transfer Record/Lab Work Request

Page 2 of 5

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

RECRA LabNet

Client: TRU-Hanford 300-029

Est. Final Proj. Sampling Date:

Project #:

Project Contact/Phone #:

RECRA Project Manager:

QC: Del: TAT:

Date Rec'd: Date Due:

Account #:

Refrigerator #																		
#/Type Container	Liquid											A						
	Solid											6						
Volume	Liquid											1Pt						
	Solid																	
Preservatives												6oz						
ANALYSES REQUESTED →		ORGANIC										INORG						
		VOA	BNA	Pest/PCB	Herb							Metal	CN					
		↓ RECRA LabNet Use Only ↓																
												Metal						

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													
011	B11343			S	12/19/00	0841							✓						
012	44					0845							✓						
013	45					0848							✓						
014	46					0851							✓						
015	47					0855							✓						
016	48					0858							✓						
017	49					0901							✓						
018	50					0903							✓						
019	51					0906							✓						
020	52					0910							✓						

Special Instructions:

DATE/REVISIONS:

1.
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4.
5.
6.

RECRA LabNet Use Only

Samples were: 1) Shipped ___ or Hand Delivered ___

Airbill # ___

2) Ambient or Chilled

3) Received in Good Condition Y or N

4) Labels Indicate Properly Preserved Y or N

5) Received Within Holding Times Y or N

COC Tape was: 1) Present on Out Package Y or

2) Unbroken on O Package Y or

3) Present on Sar Y or

4) Unbroken on Sample Y or

COC Record Pres Upon Sample Re Y or

Cooler Temp. ___

Discrepancies Between Samples Labels and COC Record? Y or N

NOTES:

Relinquished by	Received by	Date	Time
FedEx	TBoppel	12/20/00	1030

Relinquished by	Received by	Date	Time

RECRA LabNet Use Only
00121638

Custody Transfer Record/Lab Work Request

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

RECRA LabNet

Client: TRU: Hanford B00-029
Est. Final Proj. Sampling Date:
Project #:
Project Contact/Phone #:
RECRA Project Manager:
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

Refrigerator #																	
#/Type Container	Liquid																
	Solid																
Volume	Liquid																
	Solid																
Preservatives																	
ANALYSES REQUESTED		ORGANIC								INORG							
		VOA	BNA	Pest/PCB	Herb					Metal	CN						
		RECRA LabNet Use Only															
										Metals							

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												
021	B11353			S	12-19-00	0912								✓				
022	54					0915								✓				
023	55					0919								✓				
024	56					0917								✓				
025	57					0923								✓				
026	58					0926								✓				
027	59					0928								✓				
028	60					0930								✓				
029	61					0942								✓				
030	62					0945								✓				

Special Instructions:

DATE/REVISIONS:
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6.

Relinquished by	Received by	Date	Time
FedEx	TRappel	12-21-00	1030

Relinquished by	Received by	Date	Time

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

RECRA LabNet Use Only

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

COC Tape was:
1) Present on Outer Package Y or
2) Unbroken on Outer Package Y or
3) Present on Sample Y or
4) Unbroken on Sample Y or
COC Record Present Upon Sample Receipt Y or
Cooler Temp. ___

RECRA LabNet Use Only

0012L638

Custody Transfer Record/Lab Work Request

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

RECRA LabNet

Client: TRU-Hanford 800.029

Est. Final Proj. Sampling Date:

Project #:

Project Contact/Phone #:

RECRA Project Manager:

QC: Del TAT:

Date Rec'd: Date Due:

Account #:

Refrigerator #											A								
#Type Container	Liquid										6								
	Solid										1Qt								
Volume	Liquid																		
	Solid										1Qt								
Preservatives											1								
ANALYSES REQUESTED		ORGANIC									INORG								
		VOA	BNA	Pest/PCB	Herb						Metal	CN							
		RECRA LabNet Use Only																	
											MH								

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													
031	B113x63			S	12-19-00	0948													
032	64					0950													
033	65					0949													
034	66					0951													
035	67					0956													
036	68					1000													
037	69					1004													
038	70					1008													
039	71					0945													
040	72					0947													

Special Instructions:

DATE/REVISIONS:

1.
2.
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6.

RECRA LabNet Use Only

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

COC Tape 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 Receipt Y or N

Cooler Temp. ____

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

Relinquished by	Received by	Date	Time
FedEx	TRappel	12/21/00	1030

Relinquished by	Received by	Date	Time

RECRA LabNet Use Only
00121638

Custody Transfer Record/Lab Work Request

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

RECRA LabNet

Client: TPU-Hanford 200-029
Est. Final Proj. Sampling Date:
Project #:
Project Contact/Phone #:
RECRA Project Manager:
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

Refrigerator #																	
#/Type Container	Liquid																
	Solid																
Volume	Liquid																
	Solid																
Preservatives																	
ANALYSES REQUESTED		ORGANIC								INORG							
		VOA	BNA	Pest/PCB	Herb					Metal	CN						
		RECRA LabNet Use Only															
										Mx+(1)							

MATRIX CODES:	Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected												
S - Soil	041	B11373			S	12-19-00	0925								✓				
SE - Sediment	042	74					0927								✓				
SO - Solid	043	75					0929								✓				
SL - Sludge	044	76					0931								✓				
W - Water	045	77					0933								✓				
O - Oil	046	78					0935								✓				
A - Air	047	79					0923								✓				
DS - Drum Solids	048	80					0921								✓				
DL - Drum Liquids																			
L - EP/TCLP Leachate																			
Wi - Wipe																			
X - Other																			
F - Fish																			

Special Instructions:

DATE/REVISIONS:
1.
2.
3.
4.
5.
6.

RECRA LabNet Use Only

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

COC Tape was:
1) Present on Out Package Y or
2) Unbroken on C Package Y or
3) Present on Sa Y or
4) Unbroken on Sample Y or
COC Record Pre Upon Sample Re Y or
Cooler Temp. ___

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

Relinquished by	Received by	Date	Time
FedEx	TKappel	12/20/00	1030

Relinquished by	Received by	Date	Time

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B00-029-068	Page 1 of 1
Collector: Mike Stankovich / Greg Thomas	Company Contact: Mike Stankovich; Telephone No.: 531-7620	Project Coordinator: TRENT, SJ	Price Code: 2D; Data Turnaround: 70 ap
Project Designation: 100 F Area - Quick Turn	Sampling Location: 1607-F6 shallow zone	SAF No.: B00-029	Air Quality ☐
Ice Chest No.: 1A2	Field Logbook No.: EL-1535; COA: R607F62600	Method of Shipment: Federal Express	
Shipped To: TMA/RECRA	Offsite Property No.: HMSR 000292	Bill of Lading/Air Bill No.: NA	

POSSIBLE SAMPLE HAZARDS/REMARKS
PCBs

CONTACT JOAN KESSNER FOR HISTORICAL PCB DATA. FT 12.20.00

Special Handling and/or Storage
PCBs

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										
B11381	SOIL	12-19-00	0919	X									A4-7
B11382	SOIL	12-19-00	0917	X									A4-0
B11383	SOIL	12-19-00	0915	X									A4-1:
B11384	SOIL	12-19-00	0913	X									A4-1:

CHAIN OF POSSESSION	Sign/Print Names	Date/Time	Received By	Date/Time
Relinquished By	Greg Thomas	12/19/00 1305	R.Thorea	12.19.00 1305
Relinquished By	R.Thorea	12.19.00 1345	Kessner	1345
Relinquished By	Removal from Roll 1A 3726	12.20.00 0800	R.Thorea	12.20.00 0800
Relinquished By	R.Thorea	12.20.00 0800	FedEx	
Relinquished By	FedEx 122100	1030	Thippel 122100	1030
Relinquished By			Received By	

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010A (Supertrace) (~~Arsenic~~, Chromium, Lead); Mercury - 7471 - (CV)
RUN 12/14/00

TIE TO B10QP5

Matrix *
S=Soil
SE=Sediment
SO=Solid
S=Sludge
W=Water
O=Oil
A=Air
DS=Drum Sol
DL=Drum Liq
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 (10/99)

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B00-029-057	Page 1 of 1
Collector: Mike Stankovich / Greg Thomas	Company Contact: Mike Stankovich; Telephone No.: 531-7620	Project Coordinator: TRENT, SJ	Price Code: 20; Data Turnaround: 70 ap
Project Designation: 100 F Area - Quick Turn	Sampling Location: 1607-F6 overburden	SAF No.: B00-029	Air Quality ☐
Ice Chest No.: LA2	Field Logbook No.: EL-1535; COA: R607F62600	Method of Shipment: Federal Express	
Shipped To: TMA/RECRA	Offsite Property No.: HMSR 000291	Bill of Lading/Air Bill No.: NA	

POSSIBLE SAMPLE HAZARDS/REMARKS
PCBs
CONTACT JOAN KESSNER FOR HISTORICAL PCB DATA.
RT 12-20-00

Special Handling and/or Storage
PCBs

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										
B11337	SOIL	12-19-00	0815	X									A1-2
B11338	SOIL	12-19-00	0819	X									A1-3
B11339	SOIL	12-19-00	0822	X									A1-4
B11340	SOIL	12-19-00	0826	X									A1-1

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By	Date/Time	Received By	Date/Time
Greg Thomas	12/19/00 1305	R. Thoren	12.19.00 1305
R. Thoren	12.19.00 1345	Stored in RA 3728	12.19.00 1345
Received from RA 3728 (RT 12-20)	12.20.00 0800	R. Thoren	12.20.00 0800
R. Thoren	12.20.00 0800	FED EX	
FedEx	122100 1030	Thyssel	122100 1030

SPECIAL INSTRUCTIONS
(1) ICP Metals - 6010A (Supertrace) (~~Arsenic~~, Chromium, Lead); Mercury - 7471 - (CV)
RIN 12/14/00

TIE TO B1060P5

Matrix *
S=Soil
SE=Sediment
SO=Solid
S=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solid
DL=Drum Liqu
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 (10/99)

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B00-029-058	Page 1 of 1
Collector: Mike Stankovich / Greg Thomas	Company Contact: Mike Stankovich; Telephone No.: 531-7620	Project Coordinator: TRENT, SJ	Price Code: 20; Data Turnaround: 70 ap
Project Designation: 100 F Area - Quick Turn	Sampling Location: 1607-F6 overburden	SAF No.: B00-029	Air Quality ☐
Ice Chest No.: 1A7	Field Logbook No.: EL-1535; COA: R607F62600	Method of Shipment: Federal Express	
Shipped To: TMA/ECRA	Offsite Property No.: HMSR000291	Bill of Lading/Air Bill No.: WA	

POSSIBLE SAMPLE HAZARDS/REMARKS
PCB's
CONTACT JOAN KESSNER FOR HISTORICAL PCB DATA.
PT R20.00

Special Handling and/or Storage

Preservation	None										
Type of Container	sG										
No. of Container(s)	1										
Volume	60mL										
SAMPLE ANALYSIS (PCB's)	See item (1) in Special Instructions.										

Sample No.	Matrix *	Sample Date	Sample Time										
B11341	SOIL	12-19-00	0829	X									A1-13
B11342	SOIL	12-19-00	0834	X									A1-16
B11343	SOIL	12-19-00	0841	X									A2-3
B11344	SOIL	12-19-00	0845	X									A2-6

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By	Date/Time	Received By	Date/Time
Greg Thomas	12/19/00 1305	R. Thoren	12.19.00 1305
R. Thoren	12.19.00 1345	Fred Storedin Ref 1A 3728	12.19.00 1345
Removed from Ref 1A 3728	12.20.00 0900	R. Thoren	12.20.00 0800
R. Thoren	12.20.00 0800	FED EX	
FedEx	122100 1030	Thygpal	122100 1030

SPECIAL INSTRUCTIONS
(1) ICP Metals - 6010A (Supertrace) (Arsenic, Chromium, Lead); Mercury - 7471 - (CV)
RIN 12/14/00

TIE TO PJ06P5

Matrix *
S=Soil
SE=Sediment
SO=Solid
S=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solid
DL=Drum Liquid
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 (10/99)

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B00-029-059	Page 1 of 1
Collector: Mike Stankovich / Greg Thomas	Company Contact: Mike Stankovich; Telephone No.: 531-7620	Project Coordinator: TRENT, SJ	Price Code: 2D; Data Turnaround: 7 Day
Project Designation: 100 F Area - Quick Turn	Sampling Location: 1607-F6 overburden	SAF No.: B00-029	Air Quality ☐
Ice Chest No.: 1A2	Field Logbook No.: EL-1535; COA: R607F62600	Method of Shipment: Federal Express	
Shipped To: TMA/RECRA	Offsite Property No.: HMSR 00/00291	Bill of Lading/Air Bill No.: N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS
PCB's

CONTACT JOAN KESSNER FOR HISTORICAL PCB DATA.

PT 12.20.00

Special Handling and/or Storage

Preservation	None										
Type of Container	sG										
No. of Container(s)	1										
Volume	60mL										
SAMPLE ANALYSIS (PCB's)	See item (1) in Special Instructions.										

Sample No.	Matrix *	Sample Date	Sample Time										
B11345	SOIL	12-19-00	0848	X									A2-7
B11346	SOIL	12-19-00	0851	X									A2-11
B11347	SOIL	12-19-00	0855	X									A2-14
B11348	SOIL	12-19-00	0858	X									A2-15

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By	Date/Time	Received By	Date/Time
Greg Thomas	12/19/00 1305	R. Thoren	12.19.00 1305
R. Thoren	12.19.00 1345	Rod Stoverdin RJS IA 3728	12.19.00 1345
Rod Stoverdin RJS IA 3728	12.20.00 0800	R. Thoren	12.20.00 0800
R. Thoren	12.20.00 0800	FED EX	
FED EX	12.21.00 1030	Theppie	12.21.00 1030

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010A (Supertrace) (~~Arsenic~~, Chromium, Lead); Mercury - 7471 - (CV)
RJN 12/14/00

TIE TO B100P5

Matrix *: S=Soil; SE=Sediment; SO=Solid; S=Sludge; W=Water; O=Oil; A=Air; DS=Drum Solids; DL=Drum Liq; 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 (10/99)

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B00-029-060	Page 1 of 1
Collector: Mike Stankovich / Greg Thomas	Company Contact: Mike Stankovich; Telephone No.: 531-7620	Project Coordinator: TRENT, SJ	Price Code: 2D; Data Turnaround
Project Designation: 100 F Area - Quick Turn	Sampling Location: 1607-F6 overburden	SAF No.: B00-029	Air Quality ☐; 7 Day
Ice Chest No.: 1A2	Field Logbook No.: EL-1535; COA: R607F62600	Method of Shipment: Federal Express	
Shipped To: TMA/RECRA	Offsite Property No.: HMGR 000291	Bill of Lading/Air Bill No.: N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS
PCB's
CONTACT JOAN KESSNER FOR HISTORICAL PCB DATA.
RT 12/20/00

Special Handling and/or Storage
PCB's

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

P RJN 12/14/00

SAMPLE ANALYSIS

Sample No.	Matrix *	Sample Date	Sample Time	See item (1) in Special Instructions.								
B11349	SOIL	12-19-00	0901	X								A3-1
B11350	SOIL	12-19-00	0903	X								A3-2
B11351	SOIL	12-19-00	0906	X								A3-4
B11352	SOIL	12-19-00	0910	X								A3-5

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By	Date/Time	Received By	Date/Time
G.S. Thomas / Greg Thomas	1345 12/19/00	R.J. Thorem / R. Thorem	1305 12.19.00
R.J. Thorem	1345 12.19.00	510 RD IN / Rob Hi 3728	1345 12.19.00
RJ 1220 / Rob Hi 3728	12.20.00	R.J. Thorem	0800 12.20.00
R. Thorem	0800 12.20.00	FED EX	
FED EX	12-21-00 1030	Thygpal	12-21-00 1030

SPECIAL INSTRUCTIONS
(1) ICP Metals - 6010A (Supertrace) (Arsenic, Chromium, Lead); Mercury - 7471 - (CV)
RJN 12/14/00

TIE TO B106P5

Matrix *
S=Soil
SE=Sediment
SO=Solid
S=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solid
DL=Drum Liq
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 (10/99)

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B00-029-061	Page 1 of 1
Collector: Mike Stankovich / Greg Thomas	Company Contact: Mike Stankovich; Telephone No.: 531-7620	Project Coordinator: TRENT, SJ	Price Code: 20; Data Turnaround: 7 Days
Project Designation: 100 F Area - Quick Turn	Sampling Location: 1607-F6 overburden	SAF No.: B00-029	Air Quality ☐
Ice Chest No.: 7A2	Field Logbook No.: EL-1535; COA: R607F62600	Method of Shipment: Federal Express	
Shipped To: TMA/KECRA	Offsite Property No.: HMSR 000291	Bill of Lading/Air Bill No.: NA	

POSSIBLE SAMPLE HAZARDS/REMARKS
PCBs

CONTACT JOAN KESSNER FOR HISTORICAL PCB DATA.

FT 12.20.00

Special Handling and/or Storage
PCB's

Preservation	None											
Type of Container	aG											
No. of Container(s)	1											
Volume	60mL											
SAMPLE ANALYSIS	See item (1) in Special Instructions.											
Sample No.	Matrix *	Sample Date	Sample Time									
B11353	SOIL	12-19-00	0912	X								A3-9
B11354	SOIL	12-19-00	0915	X								A3-1
B11355	SOIL	12-19-00	0919	X								A4-3
B11356	SOIL	12-19-00	0917	X								A4-4

CHAIN OF POSSESSION	Sign/Print Names	Date/Time	Received By	Date/Time
Relinquished By	G.S. Thomas / Greg Thomas	1305 12/19/00	R. Thoren	1305 12.19.00
Relinquished By	R. Thoren	1345 12.19.00	Received By R. Rodgers IA 3728	1345 12.19.00
Relinquished By	Received from R. Rodgers IA 3728	12.20.00 0600	Received By R. Thoren	0600 12.20.00
Relinquished By	R. Thoren	0600 12.20.00	Received By FEDEX	Date/Time
Relinquished By	FedEx	Date/Time 12-21-00 1030	Received By Thappel	Date/Time 12-21-00 1030
Relinquished By		Date/Time	Received By	Date/Time

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010A (Supertrace) (Arsenic, Chromium, Lead); Mercury - 7471 - (CV)
RJN 12/14/00

TIE TO B10dP5

Matrix *
S=Soil
SE=Sediment
SO=Solid
S=Sludge
W=Water
O=Oil
A=Air
DS=Drum Soil
DL=Drum Liq
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 (10/99)

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B00-029-062	Page 1 of 1

Collector: Mike Stankovich / Greg Thomas	Company Contact: Mike Stankovich — Telephone No.: 531-7620	Project Coordinator: TRENT, SJ	Price Code: 20 — Data Turnaround: 70 ap
Project Designation: 100 F Area - Quick Turn	Sampling Location: 1607-F6 overburden	SAF No.: B00-029	Air Quality ☐
Ice Chest No.: 1A2	Field Logbook No.: EL-1535 — COA: R607F62600	Method of Shipment: Federal Express	
Shipped To: TMA/RECRA	Offsite Property No.: HMSR 000291	Bill of Lading/Air Bill No.: WTT	

POSSIBLE SAMPLE HAZARDS/REMARKS
PCB's

CONTACT JOAN KESSNER FOR HISTORICAL PCB DATA.

RT 12.20.00

Special Handling and/or Storage
PCB's

Preservation	None											
Type of Container	aG											
No. of Container(s)	1											
Volume	60mL											
SAMPLE ANALYSIS	See item (1) in Special Instructions.											

Sample No.	Matrix *	Sample Date	Sample Time										
B11357	SOIL	12-19-00	0923	X									A4-7
B11358	SOIL	12-19-00	0926	X									A4-9
B11359	SOIL	12-19-00	0928	X									A4-1[illegible]
B11360	SOIL	12-19-00	0930	X									A4-1[illegible]

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By	Date/Time	Received By	Date/Time
R.J. Thomas / Greg Thomas	1305 12/19/00	R Thoren	1305 12.19.00
R Thoren	1345 12.19.00	Gordon / Rel IA 3728	1345 12.19.00
Rel IA 3728	0800 12.20.00	R Thoren	0800 12.20.00
R Thoren	0800 12.20.00	FED EX	
FedEx	122100 1030	Thappel	122100 1030

RT 12.20.00

SPECIAL INSTRUCTIONS
(1) ICP Metals - 6010A (Supertrace) {Arsenic, Chromium, Lead}; Mercury - 7471 - (CV)
RJN 12/14/00

TIE TO B106P5

Matrix *
S=Soil
SE=Sediment
SO=Solid
S=Sludge
W=Water
O=Oil
A=Air
DS=Drum Soil
DL=Drum Liq
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 (10/99)

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B00-029-063	Page 1 of 1
Collector: Mike Stankovich / Greg Thomas	Company Contact: Mike Stankovich; Telephone No.: 531-7620	Project Coordinator: TRENT, SJ	Price Code: 2D; Data Turnaround: 7 Day
Project Designation: 100 F Area - Quick Turn	Sampling Location: 1607-F6 shallow zone	SAF No.: B00-029	Air Quality ☐
Ice Chest No.: 1A2	Field Logbook No.: EL-1535; COA: R607F62600	Method of Shipment: Federal Express	
Shipped To: TMA/RECRA	Offsite Property No.: HMSR 060291	Bill of Lading/Air Bill No.: WA	

POSSIBLE SAMPLE HAZARDS/REMARKS
PCBs

CONTACT JOAN KESSNER FOR HISTORICAL PCB DATA.

Special Handling and/or Storage
PCBs

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										
B11361	SOIL	12-19-00	0942	X									A1-2
B11362	SOIL	12-19-00	0945	X									A1-3
B11363	SOIL	12-19-00	0948	X									A1-4
B11364	SOIL	12-19-00	0950	X									A1-1

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By	Date/Time	Received By	Date/Time
Greg Thomas	12-19-00 1305	R. Thoren	12.19.00 1305
R. Thoren	12.19.00 1345	Stored in Ref 1A 3726	12.19.00 1345
Ref 1A 3726	12.20.00 0800	R. Thoren	12.20.00 0800
R. Thoren	12.20.00 0800	FEDEX	
FedEx	12-21-00 1030	Thappal	12-21-00 1030

SPECIAL INSTRUCTIONS
(1) ICP Metals - 6010A (Supertrace) (Arsenic, Chromium, Lead); Mercury - 7471 - (CV)
RIN 12/14/00

TICTO B166P5

Matrix *
S=Soil
SE=Sediment
SO=Solid
S=Sludge
W=Water
O=Oil
A=Air
DS=Drum Sr
DL=Drum Li
T=Tissue
WI=Wipe
L=Liquid
V=Vegetatio
X=Other

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

BHI-EE-011 (10/99)

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B00-029-064	Page 1 of 1
Collector: Mike Stankovich / Greg Thomas	Company Contact: Mike Stankovich; Telephone No.: 531-7620	Project Coordinator: TRENT, SJ	Price Code: 2D; Data Turnaround
Project Designation: 100 F Area - Quick Turn	Sampling Location: 1607-F6 shallow zone	SAF No.: B00-029	Air Quality ☐; 7 Days
Ice Chest No.: 7A2	Field Logbook No.: EL-1535; COA: R607F62600	Method of Shipment: Federal Express	
Shipped To: TMA/RCRA	Offsite Property No.: HMSR 000291	Bill of Lading/Air Bill No.: N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

PCBs

CONTACT JOAN KESSNER FOR HISTORICAL PCB DATA.

RT 12-20-00

Special Handling and/or Storage

PCBs

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		
B11365	SOIL	12-19-00	0949	X	A1-12
B11366	SOIL	12-19-00	0951	X	A1-16
B11367	SOIL	12-19-00	0956	X	A2-3
B11368	SOIL	12-19-00	1000	X	A2-6

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By	Date/Time	Received By	Date/Time
G.J. Thomas / Greg Thomas 12-19-00	1305	R. Thoren 12-19-00	1305
R. Thoren 12-19-00	1345	STORED IN REF 12-19-00 Ref 1A 3726	1345 12-19-00
REMOVED FROM Ref 1A 3726 12-20-00	0800	R. Thoren 12-20-00	0800
R. Thoren 12-20-00	0800	FEDEX	
FedEx 12-21-00	1030	T. Kappel 12-21-00	1030

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010A (Supertrace) (Arsenic, Chromium, Lead); Mercury - 7471 - (CV)
RJN 12/14/00

TIE TO B106PS

Matrix *

S=Soil
SE=Sediment
SO=Solid
S=Sludge
W=Water
O=Oil
A=Air
DS=Drum Sol
DL=Drum Liq
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 (10/99)

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B00-029-065	Page 1 of 1
Collector: Mike Stankovich / Greg Thomas	Company Contact: Mike Stankovich; Telephone No.: 531-7620	Project Coordinator: TRENT, SJ	Price Code: 2D; Data Turnaround: 7 day
Project Designation: 100 F Area - Quick Turn	Sampling Location: 1607-F6 shallow zone	SAF No.: B00-029	Air Quality ☐
Ice Chest No.: 1A2	Field Logbook No.: EL-1535; COA: R607F62600	Method of Shipment: Federal Express	
Shipped To: TMA/RECRA	Offsite Property No.: TMSR 000291	Bill of Lading/Air Bill No.: WA	

POSSIBLE SAMPLE HAZARDS/REMARKS
PCBs

CONTACT JOAN KESSNER FOR HISTORICAL PCB DATA.

ETR 12-20-00

Special Handling and/or Storage
PCBs

Preservation	None										
Type of Container	aG										
No. of Container(s)	1										
Volume	60mL										
SAMPLE ANALYSIS	See item (1) in Special Instructions										

Sample No.	Matrix *	Sample Date	Sample Time										
B11369	SOIL	12-19-00	1004	X									A2-7
B11370	SOIL	12-19-00	1008	X									A2-10
B11371	SOIL	12-19-00	0945	X									A2-14
B11372	SOIL	12-19-00	0947	X									A2-15

CHAIN OF POSSESSION	Sign/Print Names	Date/Time	Received By	Date/Time
Relinquished By	Greg Thomas	1305	R. Thoren	1305 12.19.00
Relinquished By	R. Thoren	1315 12.19.00	Received By: Stored in RDD Ref 1A 3728	1315 12.19.00
Relinquished By: Removed from Ref 1A 3728		0800 12.20.00	Received By	0800 12.20.00
Relinquished By	R. Thoren	0800 12.20.00	Received By	Date/Time
Relinquished By: FedEx		122100 1030	Received By: Thoppil	122100 1030
Relinquished By		Date/Time	Received By	Date/Time

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010A (Supertrace) (Arsenic, Chromium, Lead); Mercury - 7471 - (CV)
12/14/00 RJN

TIE TO B106P5

Matrix *
S=Soil
SE=Sediment
SO=Solid
S=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solid
DL=Drum Liqu
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 (10/99)

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B00-029-066	Page 1 of 1

Collector: Mike Stankovich / Greg Thomas	Company Contact: Mike Stankovich; Telephone No.: 531-7620	Project Coordinator: TRENT, SJ	Price Code: 2D; Data Turnaround: 7 Day
Project Designation: 100 F Area - Quick Turn	Sampling Location: 1607-F6 shallow zone	SAF No.: B00-029	Air Quality ☐
Ice Chest No.: 1A2	Field Logbook No.: EL-1535; COA: R607F62600	Method of Shipment: Federal Express	
Shipped To: TMA/RECRA	Offsite Property No.: HMSR 000291	Bill of Lading/Air Bill No.: N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS
PCBs
CONTACT JOAN KESSNER FOR HISTORICAL PCB DATA.
RT 12-20-00

Special Handling and/or Storage
PCBs

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		
B11373	SOIL	12-19-00	0926	X	A3-1
B11374	SOIL	12-19-00	0927	X	A3-2
B11375	SOIL	12-19-00	0929	X	A3-4
B11376	SOIL	12-19-00	0931	X	A3-5

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By	Date/Time	Received By	Date/Time
G.J. Thomas / Greg Thomas	12/19/00 1305	R. Thoren	12.19.00 1305
R. Thoren	12.19.00 1345	Stored in RT R. Thoren RF-14	12/19/00 1345
Removed from RF-14 3228	12-20-00 0800	R. Thoren	12-20-00 0800
R. Thoren	12.20-00 800	FED EX	
FedEx	12-21-00 1030	T. Hoppel	12-21-00 1030

SPECIAL INSTRUCTIONS
(1) ICP Metals - 6010A (Supertrace) (Arsenic, Chromium, Lead); Mercury - 7471 - (CV)
RJN 12/14/00

TIE TO B1061A5

Matrix *: S=Soil; SE=Sediment; SO=Solid; S=Sludge; W=Water; O=Oil; A=Air; DS=Drum Solid; DL=Drum Liq; 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 (10/99)

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B00-029-067	Page 1 of 1

Collector: Mike Stankovich / Greg Thomas	Company Contact: Mike Stankovich — Telephone No.: 531-7620	Project Coordinator: TRENT, SJ	Price Code: 2D — Data Turnaround
Project Designation: 100 F Area - Quick Turn	Sampling Location: 1607-F6 shallow zone	SAF No.: B00-029	Air Quality ☐ — 7 Day
Ice Chest No.: 7A7	Field Logbook No.: EL-1535 — COA: R607F62600	Method of Shipment: Federal Express	
Shipped To: TMA/RECRA	Offsite Property No.: HMSR 000291	Bill of Lading/Air Bill No.: NA	

POSSIBLE SAMPLE HAZARDS/REMARKS
PCBs
CONTACT JOAN KESSNER FOR HISTORICAL PCB DATA.
RTRZD.00

Special Handling and/or Storage
PCBs

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										
B11377	SOIL	12-19-00	0933	X									A3-9
B11378	SOIL	12-19-00	0935	X									A3-1
B11379	SOIL	12-19-00	0923	X									A4-3
B11380	SOIL	12-19-00	0921	X									A4-4

CHAIN OF POSSESSION	Sign/Print Names	Date/Time
Relinquished By: Greg Thomas		1305 12/19/00
Received By: R. Thoren		1305 12.19.00
Relinquished By: R. Thoren		1345 12.19.00
Received By: Stored in RCHA 3728		1346 12.19.00
Relinquished By: Removed from RCHA 3728		0800 12.20.00
Received By: R. Thoren		0800 12.20.00
Relinquished By: R. Thoren		0800 12.20.00
Received By: FED EX		
Relinquished By: Fed Ex		12-21-00 1030
Received By: T. Bryant		12-21-00 1030
Relinquished By:		
Received By:		

SPECIAL INSTRUCTIONS
(1) ICP Metals - 6010A (Supertrace) (Arsenic, Chromium, Lead); Mercury - 7471 - (CV)
RJN 12/14/00

TIE TO B106R5

Matrix *
S=Soil
SE=Sediment
SO=Solid
S=Sludge
W=Water
O=Oil
A=Air
DS=Drum Soil
DL=Drum Liq
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 (10/99)