0096324

SAF-RC-042
300 Area D4 Waste Characterization Sampling - Other Liquid
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

No Distribution Required KW 4/11/11
INITIAL/DATE

RECEIVED
APR 18 2011
EDMC

COMMENTS:

SDG K3152 SAF-RC-042

Rad only ☑ Chem only ☑ Rad & Chem

☑ Complete Partial

ADD-ON MERCURY ATTACHED

Sample Location/Waste Site: 307 Basins Liquid

31 March 2011

Joan Kessner
WC-Hanford, Inc.
2620 Fermi Avenue
MSIN H9-03
Richland, WA 99354

Subject: 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 #	1102164
SDG #	K3152 ADD ON
SAF #	RC-042
Date Received	02/18/11
# Samples	2
Matrix	OTHER LIQUID
Volatiles	
Semivolatiles	
Pest/PCB	
Glycols	
DRO/KRO/GRO	
PAHs	
Herbicides	
Metals	X
Inorganics	

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

Sincerely,

Lionville Laboratory
A Division of Eberline Analytical Corporation

Orlette S. Johnson
Project Manager

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc. 2620 Fermi Avenue Richland WA, 99354	Project: RC-042 Project Number: K3152 Project Manager: Joan Kessner	**Reported:** 03/29/2011 10:33

Analytical Report for Metals by SW846 6000/7000 series

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
J1F1F4	1102164-01	Other Liquid	02/15/2011 10:14	02/18/2011 10:00
J1F1F4	1102164-02	Other Liquid	02/15/2011 10:14	02/18/2011 10:00

LIONVILLE LABORATORY
A division of Eberline Analytical Corporation

264 Welsh Pool Road
Exton, Pennsylvania 19341
Phone (610) 280-3000
Fax (610) 280-3041

Case Narrative

Client: WC-HANFORD RC-042
LVL#: 1102164
SDG/SAF#: K3152/RC-042

W.O.#: 60049-001-001-0001-00
Date Received: 02-18-11

METALS

The following is a summary of the QC results accompanying the sample results. Lionville Laboratory (LvL) certifies that all test results meet the requirements of NELAC except as noted below.

****Revision****

This report has been revised to include the analysis of sample J1F1F4 for Mercury. The final report for the referenced result is included. In summary, the preparation blank was within method criteria, the SRM result was within the manufacturer supplied Prediction Interval for Arsenic. The duplicate RPD was within the 20% Relative Percent Difference (RPD) control limit, and the matrix spike was within the 75-125% control limit.

1. This narrative covers the analysis of 1 other liquid sample.

2. The sample was prepared and analyzed in accordance with methods checked on the attached glossary.

   The sample was digested with a 50-fold dilution for ICP metals due to sample matrix.

3. All samples were analyzed within the required holding times with the exception of Mercury. The client requested Mercury analysis on sample J1F1F4 outside the required holding time for Mercury.

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

5. All Initial and Continuing Calibration Verifications (ICV/CCVs) were within the 90-110% control limits (80-120% Mercury).

6. All Initial and Continuing Calibration Blanks (ICB/CCBs) were within control limits (less than the LOQ).

7. All preparation/method blanks were within method criteria. {less than the Limit of Quantitation (3-10X the LOD), or samples greater than 20X MB value}.

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.

8. All ICP Interference Check Standards were within control limits.

9. All laboratory control samples (LCS) were within the 80-120% control limits with the exception of Cadmium (79.0%). The result for the LCS is marginally low with minimal impact on data. Please refer to SDR#: 11MR016A.

10. The matrix spike (MS) recoveries were within the 75-125% control limits.

11. All duplicate analyses were within the 20% Relative Percent Difference (RPD) control limits. The ± 20% RPD control limit applies to sample results greater than ten times the MDL.

12. For the purposes of this report, the data has been reported to the Limit of Detection (LOD). Values between the LOD and the Limit of Quantitation (LOQ) are acquired in a region of less-certain quantification.

13. LvL is NELAP accredited by the State of Pennsylvania. For a complete listing of accrediting authorities and the corresponding analytes/methods, please contact your Project Manager.

14. 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.

Iain Daniels
Laboratory Manager
Lionville Laboratory

3/29/11
Date

alm/m02-164

Lionville Laboratory Sample Discrepancy Report (SDR)

SDR #: 11MR016A

Initiator: Andrea Markowitz
Date: 3/11/11
Client: WC Stanford
Batch: 1102164
Samples: 1125
Method: SW846/MCAWW/CLP/
Parameter: Cd
Matrix: Dil
Prep Batch: L103092

1. Reason for SDR

a. COC Discrepancy __ Tech Profile Error __ Client Request __ Sampler Error on C-O-C __ Transcription Error __ Wrong Test Code __ Other _____

b. General Discrepancy

__ Missing Sample/Extract __ Container Broken __ Wrong Sample Pulled __ Label ID's Illegible
__ Hold Time Exceeded __ Insufficient Sample __ Preservation Wrong __ Received Past Hold
__ Improper Bottle Type __ Not Amenable to Analysis

Note: Verified by [Log-In] or [Prep Group] (circle)...signature/date: _____

c. Problem (Include all relevant specific results; attach data if necessary)

aem 3/11/11

The LCS recovery for Cadmium (79%) ~~was~~ exceeded the lower control limit (80-120%)
result is marginally low

2. Known or Probable Causes(s)

3. Discussion and Proposed Action Other Description:

__ Re-log
__ Entire Batch
__ Following Samples: _____
__ Re-leach
__ Re-extract
__ Re-digest
__ Revise EDD
__ Change Test Code to _____
__ Place On/Take Off Hold (circle)

Narrate - minimal impact on data

4. Project Manager Instructions...signature/date: 3/11/11

✓ Concur with Proposed Action
__ Disagree with Proposed Action; See Instruction
__ Include in Case Narrative
__ Client Contacted:
Date/Person _____
__ Add
__ Cancel

5. Final Action...signature/date: _____ Other Explanation:

__ Verified re-[log][leach][extract][digest][analysis] (circle)
__ Included in Case Narrative
__ Hard Copy COC Revised
__ Electronic COC Revised
__ EDD Corrections Completed

When Final Action has been recorded, forward original to QA for diposition.

Route
__ Lab Manager: Daniels
__ Project Mgr (circle): Johnson / Stone
__ Sample Prep (circle): Ford
__ Log-in: King

Route
__ Metals: Welsh / _____
__ Inorganic: Perrone / _____
__ GC/LC: Carey / _____
__ MS VOA: Rubino / _____
__ MS BNA: Carden / _____
__ Other: _____

QA-139-A-0208

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
Fax: 610-280-3041

WC-Hanford, Inc.	Project: RC-042	
2620 Fermi Avenue	Project Number: K3152	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	03/29/2011 10:33

Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
B	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag)
*	Value outside QC acceptance criteria
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
wet	Sample results reported on a wet weight basis
RPD	Relative Percent Difference

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Richland WA, 99354	Project Manager: Joan Kessner	03/29/2011 10:33

J1F1F4

1102164-01 (Other Liquid)

Analyte	Result and Qualifier		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory									
Metals by SW846 6000/7000 series									
Arsenic	500	U	500	ug/L	1	L103092	03/08/2011	03/10/2011	6010B
Barium	**50.1**	B	250	ug/L	1	L103092	03/08/2011	03/10/2011	6010B
Cadmium	125	U	125	ug/L	1	L103092	03/08/2011	03/10/2011	6010B
Chromium	500	U	500	ug/L	1	L103092	03/08/2011	03/10/2011	6010B
Lead	500	U	500	ug/L	1	L103092	03/08/2011	03/10/2011	6010B
Selenium	**184**	B	500	ug/L	1	L103092	03/08/2011	03/10/2011	6010B
Silver	500	U	500	ug/L	1	L103092	03/08/2011	03/10/2011	6010B

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2620 Fermi Avenue	Project Number: K3152	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	03/29/2011 10:33

J1F1F4

1102164-02 (Other Liquid)

Analyte	Result and Qualifier		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory									
Metals by SW846 6000/7000 series									
Mercury	20.0	U	20.0	ug/L	1	L103383	03/25/2011	03/28/2011	7471A

264 Welsh Pool Road
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Fax: 610-280-3041

WC-Hanford, Inc.	Project: RC-042	
2620 Fermi Avenue	Project Number: K3152	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	03/29/2011 10:33

Metals by SW846 6000/7000 series - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers		Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L103092 - SW 3050B										
Blank (L103092-BLK1)				Prepared: 03/08/2011 Analyzed: 03/10/2011						
Arsenic	500	U	500	ug/L						
Barium	250	U	250	ug/L						
Cadmium	125	U	125	ug/L						
Chromium	500	U	500	ug/L						
Lead	500	U	500	ug/L						
Selenium	500	U	500	ug/L						
Silver	500	U	500	ug/L						
LCS (L103092-BS1)				Prepared: 03/08/2011 Analyzed: 03/10/2011						
Arsenic	474000		500	ug/L	500000		95	80-120		
Barium	251000		250	ug/L	250000		100	80-120		
Cadmium	9830		125	ug/L	12500		79*	80-120		
Chromium	24700		500	ug/L	25000		99	80-120		
Lead	120000		500	ug/L	125000		96	80-120		
Selenium	464000		500	ug/L	500000		93	80-120		
Silver	23900		500	ug/L	25000		96	80-120		
Duplicate (L103092-DUP1)		**Source: 1102164-01**		Prepared: 03/08/2011 Analyzed: 03/10/2011						
Arsenic	500	U	500	ug/L		500 U				20
Barium	250	U	250	ug/L		50.1				20
Cadmium	125	U	125	ug/L		125 U				20
Chromium	500	U	500	ug/L		500 U				20
Lead	500	U	500	ug/L		500 U				20
Selenium	500	U	500	ug/L		184				20
Silver	500	U	500	ug/L		500 U				20
Matrix Spike (L103092-MS1)		**Source: 1102164-01**		Prepared: 03/08/2011 Analyzed: 03/10/2011						
Arsenic	93400		500	ug/L	100000	500 U	93	75-125		
Barium	101000		250	ug/L	100000	50.1	101	75-125		
Cadmium	1880		125	ug/L	2500.0	125 U	75	75-125		
Chromium	9960		500	ug/L	10000	500 U	100	75-125		
Lead	23200		500	ug/L	25000	500 U	93	75-125		
Selenium	91500		500	ug/L	100000	184	91	75-125		
Silver	2320		500	ug/L	2500.0	500 U	93	75-125		

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WC-Hanford, Inc.	Project: RC-042	
2620 Fermi Avenue	Project Number: K3152	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	03/29/2011 10:33

Metals by SW846 6000/7000 series - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers		Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L103383 - SW 7471A Prep										
Blank (L103383-BLK1)				Prepared: 03/25/2011 Analyzed: 03/28/2011						
Mercury	20.0	U	20.0	ug/L						
LCS (L103383-BS1)				Prepared: 03/25/2011 Analyzed: 03/28/2011						
Mercury	497		20.0	ug/L	500.00		99.4	80-120		20
Duplicate (L103383-DUP1)		Source: 1102164-02		Prepared: 03/25/2011 Analyzed: 03/28/2011						
Mercury	20.0	U	20.0	ug/L		20.0 U				20
Matrix Spike (L103383-MS1)		Source: 1102164-02		Prepared: 03/25/2011 Analyzed: 03/28/2011						
Mercury	102		20.0	ug/L	100.00	20.0 U	102	75-125		20

Lionville Laboratory

MERCURY PREPARATION

Logbook # 924

Analyst: Mitchell
Date 3/25/11
Start Time/Temp: 1445/95°
End Time/Temp: 1515/95°

Instrument ID: HG3.1
Balance # (NA)
Pipette Calibration (Daily) (Y)

Prep Batch: L103383
Worksheet: HG032801
SOP No. ME-HgCVAA
BLOCK (1) 2 (circle one)

NOTE: All temperatures are recorded as corrected temperatures.

LvL Work Order#	pH < 2 (Liq)	Spike Vol (mL)	Spike Conc. (µg/L)	Initial Wt. or Vol (g or (mL))	Final Sample Vol (mL)	Comments, % Solids, etc.
Blank				10 ml	50	
0.2 µg/l		0.100		10 ml	50	
1.0 µg/l		0.500		10 ml	50	
2.0 µg/l		1.000		10 ml	50	
5.0 µg/l		2.500		10 ml	50	
10.0 µg/l		5.000		10 ml	50	
ICV		0.1125	2.5	10 ml	50	
CCV		0.250	5.0	10 ml	50	
ICB/CCB				10 ml	50	
L103383-BLK1				0.5 ml	50	
BS1		0.250	5.0	0.5 ml	50	
1102164-02				0.5 ml	50	
L103383-DUP1				0.5 ml	50	
MS1		0.500	1.0	0.5 ml	50	

PM 3/25/11

Standard:	ID	Prep Date/Time
ICAL/MS	RI 1001785B	3/25/11 1215
ICV/CCV/LCS	I.V. 1001781A	1

Reviewed By/Date: CLM 3/29/11

se book # 9368 for std traceability information

Soil LCS True Value = N/A mg/Kg
Standard #

Water Matrix Spiking Solution Concentration = 0.1 µg/ml
after LCS Spiking Concentration: 1.0 µg/ml

Lionville Laboratory

Logbook #: 973

SAMPLE DIGESTION RECORD

Digestion Batch #: L103092
Date/Time Initiated: 3/8/11 1130
Date/Time Completed: 3/8/11 1625
Analyst: JJV
Matrix (circle): Soil Water Other
Method (circle one): 3005A 3010A 3050 200.7 (1994)

Digested / Undigested (circle one)
Balance #: N/A
Balance Cal Verification: Y NA
Temp: 97
BLOCK 1 2 (circle one)

NOTE: All temperatures are recorded as corrected temperatures

Work Order #	Spike Vol (mL)	Initial Wt/Vol (g/mL)	Final Vol (mL)	pH <2	Type: To/Sol/ TC	Texture	Color / Appearance	Artifact	Turb
1102164-01		1	50		To	Oily	C/C	N/A	N/A
L103092-Dup1		1	50						
-MS1	0.5	1	50						
-BLK1		1	50				C/C		
-BS1	0.5	1	50				C/C		

JJS
3/8/11

Spiking IDs / Expiration Date:
MS#: 1001843
LCS#: 1100250

Reagent IDs:
HNO_3 J52033
HCl J93P02
H_2O_2 J93A17
1:1 HNO_3 637-032-05
1:1 HCl

File ID#:

Data Review By / Date: 3/10/11

R:\group\QA\SOP\
Signed\SPI\Metals Digestion log.doc

Page #:

00000011

Lionville Laboratory Use Only

1102164

Custody Transfer Record/Lab Work Request

Revision

Page 1 of 1

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Lionville Laboratory
A Division of Eberline Analytical Corporation

Client WC. Hanford SAF# RC-042

Est. Final Proj. Sampling Date

Project#

Project Contact/Phone#

Lionville Laboratory Project Manager Ollette Johnson

QC SW Del STD TAT 15 days

Date Rec'd 2.18.11 Date Due 3-5-11

		A	B						C							
Refrigerator #		VOA	1						1							
#/Type Container	Liquid	1 agl	1 agl						1 agl							
	Solid															
Volume	Liquid	40	60						60							
	Solid															
Preservatives		—	—						—							
ANALYSES REQUESTED →		ORGANIC							INORG							
		VOA	BNA	Pest/PCB	Herb				(1) Metal ~~HG~~	CN 2-18-11						
		Lionville Laboratory Use Only														
		8260B	8270C						Met(1)	+ HG	3-25-11					
01	J1F1F4	X	X						X							
02	↓									X						

MATRIX CODES:
W Water
WW Waste Water
GW Groundwater
WST Waste
WI Wipe
SO Solid
S Soil
SL Sludge
SE Sediment
PC Paint Chips
O Oil
NAL Non-Aqueous Liquid
L Leachate
A Air
T Tissue
F Fish

Special Instructions:

Met(1) = RCRA

Special Instructions:

3-25-11 1. Added HG per client Due 3-28-11

↓ 2. Moved to sample #02 for prep method that is consistent

↓ 3. With matrix. WO

4.

5.

6.

See SRC

Relinquished by	Received by	Date	Time
[illegible]	[illegible]	2.18.11	10:00

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time
ORIGINAL REWRITTEN			

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-042-148	Page 1 of 1

Collector: K Hulse	Company Contact: Bill Rodgers; Telephone No.: 206.251.7439	Project Coordinator: KESSNER, JH	Price Code: 9K; Data Turnaround: 15 Days
Project Designation: 300 Area D4 Waste Characterization Sampling - Other Liqui	Sampling Location: 307 Basins Liquid	SAF No.: RC-042	
Ice Chest No.: GWS-241	Field Logbook No.: EL-1518-17; COA: RD4MXX2F00	Method of Shipment: Fed Ex	
Shipped To: EBERLINE SERVICES / LIONVILLE	Offsite Property No.: 2256	Bill of Lading/Air Bill No.: 796774754705	

POSSIBLE SAMPLE HAZARDS/REMARKS

Rad/Be RAD SCREEN # J1F1F4

Special Handling and/or Storage

Cool 4 Degree C

Preservation	Cool 4C	Cool 4C	Cool 4C	None	None	None	None	None		
Type of Container	G/P	aGs*	aG	G/P	G/P	G/P	G/P	G/P		
No. of Container(s)	1	1	1	1	1	1	1	0		
Volume	60mL	40mL	60mL	500mL	60mL	60mL	60mL	125mL		
SAMPLE ANALYSIS	See item (1) in Special Instructions.	VOA - 8260A (TCL)	Semi-VOA - 8270A (TCL)	See item (2) in Special Instructions.	Gross Alpha & Gross Beta	Isotopic Uranium	Isotopic Plutonium	RCF GEA Shipping Screen		

Sample No.	Matrix *	Sample Date	Sample Time										
J1F1F4	OTHER LIQUID	2-15-11	1014	X	X	X							

2-15-11

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From: K. B. Hulse [signature]	Date/Time: FEB 15 2011 1330	Received By/Stored In: SSU- 1	Date/Time: FEB 15 2011 1330
Relinquished By/Removed From: SSU #1	Date/Time: 2/17/11 1000	Received By/Stored In: SCOTT HAMAKER / Scott Hamaker	Date/Time: 2/17/11 1000
Relinquished By/Removed From: SCOTT HAMAKER / Scott Hamaker	Date/Time: 2/17/11 1400	Received By/Stored In: FED EX	Date/Time:
Relinquished By/Removed From: Fed Ex	Date/Time: 2.18.11 1000	Received By/Stored In: [signature] D Smith	Date/Time: 2.18.11 1000
Relinquished By/Removed From:	Date/Time:	Received By/Stored In:	Date/Time:
Relinquished By/Removed From:	Date/Time:	Received By/Stored In:	Date/Time:

SPECIAL INSTRUCTIONS

(1) Metals - TC Primary Constituents {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Metals - TC Primary Constituents

(2) Gamma Spec (Client List) {Americium-241, Antimony-125, Barium-133, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Radium-226, Radium-228}

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

WCH-EE-011

Lionville Laboratory

SAMPLE RECEIPT CHECKLIST (SRC)

CLIENT: WC. Hanford

Project/SAF/SOW/Release #: RC-042

Date: 2.18.11

LvL Batch #: 1102164

Sample Custodian: [illegible]

NOTE: EXPLAIN ALL DISCREPANCIES

1. Samples Hand Delivered or Shipped?	Carrier FedEx		Airbill # 7967 7475 4705
2. Custody Seals on coolers or shipping containers intact, signed & dated?	☑ Yes	☐ No	☐ No Seals
3. Outside of coolers or shipping containers are free from damage?	☑ Yes	☐ No	*Comments:*
4. All expected paperwork received (coc & other client specific information) sealed in plactic bag and easily accessible?	☑ Yes	☐ No	
5. Samples received cooled or ambient?	Temp 2.6 °C		Cooler # GWS-241
How was the temperature taken?	☑ IR	☐ Temp. Blank	☐ Other (Specify)
Is the Temp. Criteria met for these samples? (Hg in soils @ 4°C)	☑ Yes	☐ No	
6. Custody seals on sample containers intact, signed and dated?	☑ Yes	☐ No	☐ No Seals
7. COC (Client & LvL) signed & dated?	☑ Yes	☐ No	
8. Sample containers are intact?	☑ Yes	☐ No	
9. All samples on COC received?	☑ Yes	☐ No	
All samples received on COC?	☑ Yes	☐ No	
10. All sample label information matches COC?	☑ Yes	☐ No	
11. Samples properly preserved? (If #5 is no, then this is no.)	☑ Yes	☐ No	
12. Samples received within hold times?	☑ Yes	☐ No	
Short holds taken to wet lab?	☐ Yes	☐ No	☑ N/A
13. VOA, TOC, TOX free of headspace?	☑ Yes	☐ No	☐ N/A
14. QC stickers placed on bottles designated by client?	☑ Yes	☐ No	☐ N/A
15. Shipment meets LvL Sample Acceptance Policy? (Identify all bottles that do not meet the policy, which is on the reverse of this page.)	☑ Yes	☐ No	
16. Project Manager contacted concerning any discrepancies?	☐ Yes	☐ No	☑ N/A

Person Contacted _____ Date _____