

SAF-RC-052
Remaining Sites Confirmation Sampling -
Water
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt

H4-21

KW 9/24/08
INITIAL/DATE

COMMENTS:

SDG K1308

SAF-RC-052

Rad only

Chem only

Rad & Chem

Complete

Partial

Waste Site: 128-H-3 / 128-H-2

RECEIVED
OCT 08 2008
EDMC



23 September 2008



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 #	0808L136
SDG #	K1308
SAF #	RC-052
Date Received	8/29/08
# Samples	1
Matrix	WATER
Volatiles	X
Semivolatiles	
Pest/PCB	
Glycols	
DRO/KRO/GRO	
GC Alcohols	
Herbicides	
Metals	
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

Orlette S. Johnson
Project Manager

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

RECEIVED
SEP 2008

Lionville Laboratory, Inc.
VOA ANALYTICAL DATA PACKAGE FOR
WC-HANFORD RC-052 *K1308*

DATE RECEIVED: 08/29/08

LVL LOT # :0808L136

CLIENT ID	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
J178X0	001	W	08LVG139	08/27/08	N/A	09/02/08
J178X0	001 MS	W	08LVG139	08/27/08	N/A	09/02/08
J178X0	001 MSD	W	08LVG139	08/27/08	N/A	09/02/08

LAB QC:

VBLKFL	MB1	W	08LVG139	N/A	N/A	09/02/08
VBLKFL	MB1 BS	W	08LVG139	N/A	N/A	09/02/08



Case Narrative

Client: WC-HANFORD RC-052

LVL #: 0808L136

SDG/SAF # 4308 /RC-052

W.O. #: 60049-001-001-0001-00

Date Received: 08-29-2008

GC/MS VOLATILE

One (1) water sample was collected on 08-27-2008.

The sample and the associated QC samples were analyzed according to criteria set forth in Lionville Laboratory SOPs based on SW 846 Method 8260B for TCL Volatile target compounds on 09-02-2008.

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

1. Samples were analyzed within required holding time.
2. Non-target compounds were not detected in these samples.
3. One (1) of fifteen (15) surrogate recoveries was outside acceptance criteria. However, the associated matrix spike analyses on 09-02-2008 fulfills the reanalysis requirement.
4. All matrix spike recoveries were within acceptance criteria.
5. All blank spike recoveries were within acceptance criteria.
6. The method blank was below the reporting limit for all target compounds.

r:\group\data\2008\voa\tnu\0808-136cw1.doc

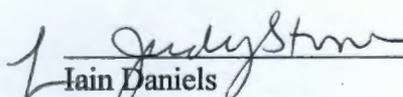
The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage.

All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 11

pages.



7. Internal standard areas were outside QC limits for sample J177J2; however associated matrix spike analyses fulfilled its reanalysis requirement.
8. Manual integrations are performed according to SOP QA-125 to produce quality data with utmost integrity. All manual integrations are required to be technically valid and properly documented. Appropriate technical flags are defined in the Glossary ("Technical Flags For Manual Integration").
9. LvLI 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.
10. "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 Incorporated

9/14/08
Date

GLOSSARY

DATA QUALIFIERS

- U = Compound was analyzed for but not detected. The associated numerical value is the estimated sample quantitation limit which is included and corrected for dilution and percent moisture.
- J = Indicates an estimated value. This flag is used under the following circumstances: 1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; or 2) when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. For example, if the limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.
- B = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag is also used for a TIC as well as for a positively identified TCL compound.
- E = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.
- D = Identifies all compounds identified in an analysis at a secondary dilution factor.
- I = Interference.
- NQ = Result qualitatively confirmed but not able to quantify.
- N = Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.
- X = This flag is used for a TIC compound which is quantified relative to a response factor generated from a daily calibration standard (rather than quantified relative to the closest internal standard).
- Y = Additional qualifiers used as required are explained in the case narrative.

GLOSSARY

ABBREVIATIONS

- BS = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spike solutions and carried through all the steps in the method. Spike recoveries are reported.
- BSD = Indicates blank spike duplicate.
- MS = Indicates matrix spike.
- MSD = Indicates matrix spike duplicate.
- DL = Suffix added to sample number to indicate that results are from a diluted analysis.
- NA = Not Applicable.
- DF = Dilution Factor.
- NR = Not Required.
- SP, Z = Indicates Spiked Compound.

TECHNICAL FLAGS FOR MANUAL INTEGRATION

Manual quan modifications or integrations are performed routinely to improve the data quality for a variety of technical reasons. Documentation of these modifications should be clear and concise. The following 'flags' are used to indicate the technical reasons for quan modifications:

- MP - Missed Peak: Manually added peak not found by automatic quan program.
- PA - Peak Assignment: Quan report was changed to reflect correct peak assignment.
- RI - Routine Integration: Routine integrations are performed for some analytes that are consistently integrated improperly by the automatic integration programs. Examples are the Dichlorobenzene isomers on the VOA packed column and Benzo (b) fluoranthene /Benzo (k) fluoranthene which are poorly resolve on the BNA column.
- SP - Split Peak: The automatic integration improperly split the peak; a manual integration was performed to get the correct area.
- CB - Co-elution/ Background: Peak was manually integrated to eliminate contribution from co-eluting compounds, background signal, or other interference.
- PI - Proper Integration: A peak with poor or inconsistent integration (i.e., excessive tail) was properly integrated manually.

	Cust ID:	J178X0	J178X0	J178X0	VBLKFL	VBLKFL BS
Sample Information	RFW#:	001	001 MS	001 MSD	08LVG139-MB1	08LVG139-MB1
	Matrix:	WATER	WATER	WATER	WATER	WATER
	D.F.:	1.00	1.00	1.00	1.00	1.00
	Units:	ug/L	ug/L	ug/L	ug/L	ug/L
Surrogate	Toluene-d8	108 %	108 %	110 %	104 %	112 %
Recovery	Bromofluorobenzene	116 * %	106 %	113 %	106 %	115 %
	1,2-Dichloroethane-d4	107 %	96 %	100 %	97 %	102 %
=====fl=====fl=====fl=====fl=====fl=====fl=====fl=====						
Chloromethane		10 U	72 %	78 %	10 U	100 %
Bromomethane		10 U	74 %	72 %	10 U	79 %
Vinyl Chloride		10 U	82 %	85 %	10 U	100 %
Chloroethane		10 U	73 %	74 %	10 U	83 %
Methylene Chloride		3 JB	88 %	89 %	2 J	97 %
Acetone		10 U	81 %	87 %	10 U	125 %
Carbon Disulfide		5 U	111 %	109 %	5 U	127 %
1,1-Dichloroethene		5 U	103 %	103 %	5 U	119 %
1,1-Dichloroethane		5 U	94 %	96 %	5 U	101 %
1,2-Dichloroethene (total)		5 U	96 %	94 %	5 U	103 %
Chloroform		5 U	100 %	98 %	5 U	103 %
1,2-Dichloroethane		5 U	95 %	95 %	5 U	98 %
2-Butanone		10 U	77 %	73 %	10 U	79 %
1,1,1-Trichloroethane		5 U	95 %	97 %	5 U	95 %
Carbon Tetrachloride		5 U	94 %	92 %	5 U	96 %
Bromodichloromethane		5 U	96 %	97 %	5 U	100 %
1,2-Dichloropropane		5 U	91 %	93 %	5 U	96 %
cis-1,3-Dichloropropene		5 U	94 %	96 %	5 U	102 %
Trichloroethene		5 U	100 %	97 %	5 U	99 %
Dibromochloromethane		5 U	101 %	98 %	5 U	104 %
1,1,2-Trichloroethane		5 U	96 %	99 %	5 U	103 %
Benzene		5 U	91 %	90 %	5 U	95 %
Trans-1,3-Dichloropropene		5 U	95 %	97 %	5 U	104 %
Bromoform		5 U	91 %	89 %	5 U	94 %
4-Methyl-2-pentanone		10 U	81 %	82 %	10 U	88 %
2-Hexanone		10 U	77 %	75 %	10 U	83 %
Tetrachloroethene		5 U	102 %	97 %	5 U	100 %
1,1,2,2-Tetrachloroethane		5 U	91 %	95 %	5 U	100 %
Toluene		5 U	105 %	106 %	5 U	108 %

*= Outside of EPA CLP QC limits.

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Cust ID: J178X0 J178X0 J178X0 VBLKFL VBLKFL BS

RFW#: 001 001 MS 001 MSD 08LVG139-MB1 08LVG139-MB1

Chlorobenzene	5 U	100 %	100 %	5 U	102 %
Ethylbenzene	5 U	109 %	105 %	5 U	110 %
Styrene	5 U	109 %	108 %	5 U	111 %
Xylenes (total)	5 U	107 %	106 %	5 U	108 %
cis-1,2-dichloroethene	5 U	93 %	93 %	5 U	99 %
trans-1,2-dichloroethene	5 U	99 %	96 %	5 U	106 %

*= Outside of EPA CLP QC limits.

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Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			RC-052-006	Page 1 of 7
Collector Hudson	Company Contact Matt Perrott	Telephone No. 372-9088	Project Coordinator KESSNER, JH	Price Code 7G	Data Turnaround 8/27/08	15 Days
Project Designation Remaining Sites Confirmation Sampling - Water	Sampling Location 128-H-3/128-H-2 C128H31W00		SAF No. RC-052			
Ice Chest No. 13RC-96-069	Field Logbook No. EL-1601-2	COA 600 BH 8/27/08	Method of Shipment Fed Ex			
Shipped To EBERLINE SERVICES / LIONVILLE	Offsite Property No. A080320	Bill of Lading/Air Bill No. SCC08PC				

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	HCl or H2SO4 to pH <2 Cool																		
	Type of Container	aGs*																		
	No. of Container(s)	3																		
	Volume	40mL																		

Special Handling and/or Storage	VOA - 8260A (TCL)																			
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Sample No.	Matrix *	Sample Date	Sample Time																		
J178X0	WATER	8/27/08	0515	X																	
J178X1	WATER																				
J178X2	WATER																				
J178X3	WATER																				
J178X4	WATER	8/27/08																			

CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS				Matrix *			
Relinquished By/Removed From Hudson	Date/Time 8/27/08 1810	Received By/Stored In 1060 #3C	Date/Time 8/27/08 1810	<p>Sampler unavailable to remove samples from controlled storage. Shipper removed samples from storage location taking custody of samples for shipment to lab.</p>				<ul style="list-style-type: none"> S=Soil SE=Sediment SO=Solid Sl=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue Wl=Wipe L=Liquid V=Vegetation X=Other 			
Relinquished By/Removed From S. E. ...	Date/Time 8-28-08	Received By/Stored In Fed Ex	Date/Time								
Relinquished By/Removed From Fed Ex	Date/Time 8/29/08 0745	Received By/Stored In [Signature]	Date/Time 8-29-08 0745								
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time								
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time								
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time								

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

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