0095034

SAF-RC-194
Soil/Sediment Sampling – Integrated Remedial Investigation/Feasibility Study, 100-F Area Boreholes
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

No Distribution Required

COMMENTS:

SDG K3173 **SAF-RC-194**

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Sample Location: **C7971 (118-F-1); I-001, I-002, I-003, I-003 DUP**

RECEIVED
MAR 23 2011
EDMC

LIONVILLE LABORATORY

34 Welsh Pool Road
Lionville, Pennsylvania 19341
Phone (610) 280-3000
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2 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 #	1102141
SDG #	K3173
SAF #	RC-194
Date Received	02/16/11
# Samples	4
Matrix	SOIL
Volatiles	X
Semivolatiles	
Pest/PCB	
Glycols	
DRO/KRO/GRO	
PAHs	
Herbicides	
Metals	
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

LIONVILLE LABORATORY
A division of Eberline Analytical Corporation

264 Welsh Pool Road
Exton, PA 19341
Phone: 610-280-3000
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WC-Hanford, Inc.	Project: RC-194	
2620 Fermi Avenue	Project Number: K3173	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	02/28/2011 09:29

Analytical Report for Volatile Organic Compounds by SW846 8260B

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B28VL7	1102141-01	Soil	02/11/2011 07:45	02/16/2011 09:30
B28VM2	1102141-02	Soil	02/11/2011 09:00	02/16/2011 09:30
B28VM6	1102141-03	Soil	02/11/2011 10:55	02/16/2011 09:30
B28VN3	1102141-04	Soil	02/11/2011 10:55	02/16/2011 09:30

LIONVILLE LABORATORIES
A Division of Eurofins Analytical Corporation

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Case Narrative

Client: WC-HANFORD RC-194 K3173
LVL #: 1102141

W.O. #: 60049-001-001-0001-00
Date Received: 02-16-2011

GC/MS VOLATILE

Four (4) soil samples were collected on 02-11-2011.

The samples and associated QC samples were prepared and analyzed 02-18-2011 according to criteria set forth in Lionville Laboratory SOPs. The preparation procedure was based on SW846 Method 5035A and the analysis procedure was based on SW846 Method 8260B for TCL Volatile target compounds.

Lionville Laboratory (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. LvL certifies that all test results meet the requirements of NELAC with any exception noted in the following statements:

1. The results presented in this report are derived from samples that met LvL's sample acceptance policy.

2. Samples were analyzed within hold time.

3. Non-target compounds were detected in these samples.

4. All surrogate recoveries were within acceptance criteria.

5. All matrix spike recoveries were within acceptance criteria.

6. All blank spike recoveries were within acceptance criteria.

7. The method blanks were below the reporting limit for all target analytes.

8. Samples are reported on a dry weight basis.

9. All internal standard area and retention time criteria were met.

10. 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").

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 210 pages.

11. "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
LvL Laboratory Manager

3/1/11
Date

GLOSSARY

DATA QUALIFIERS

U = Indicates that the 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 concetration 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.

A = Indicates that a TIC is a suspected aldol-condensation product.

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 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 resolved 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	-	Coelution/Background: peak was manually integrated to eliminate contribution from coeluting compounds, background signal., or other interference.
PI	-	Proper Integration: a peak with poor or inconsistent integration (e.g., excessive tail) was properly integrated manually.

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WC-Hanford, Inc.	Project: RC-194	
2620 Fermi Avenue	Project Number: K3173	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	02/28/2011 09:29

B28VL7

1102141-01 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
			Lionville Laboratory					
Volatile Organic Compounds by SW846 8260B								
1,1,1-Trichloroethane	4.46 U	4.46	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,1,2,2-Tetrachloroethane	4.46 U	4.46	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,1,2-Trichloroethane	4.46 U	4.46	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,1-Dichloroethane	4.46 U	4.46	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,1-Dichloroethene	4.46 U	4.46	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,2-Dichloroethane	5.35 U	5.35	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,2-Dichloroethene (total)	4.46 U	4.46	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,2-Dichloropropane	4.46 U	4.46	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
2-Butanone	10.7 U	10.7	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
2-Hexanone	10.7 U	10.7	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
4-Methyl-2-pentanone	10.7 U	10.7	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Acetone	**4.78** B, J	10.7	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Benzene	4.46 U	4.46	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Bromodichloromethane	5.35 U	5.35	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Bromoform	4.46 U	4.46	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Bromomethane	8.92 U	8.92	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Carbon Disulfide	4.46 U	4.46	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Carbon Tetrachloride	4.46 U	4.46	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Chlorobenzene	4.46 U	4.46	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Chloroethane	8.92 U	8.92	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Chloroform	4.46 U	4.46	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Chloromethane	8.92 U	8.92	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
cis-1,2-Dichloroethene	4.46 U	4.46	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
cis-1,3-Dichloropropene	4.46 U	4.46	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Dibromochloromethane	4.46 U	4.46	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Ethylbenzene	4.46 U	4.46	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Methylene Chloride	**3.99** B, J	5.35	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Styrene	**1.34** J	4.46	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Tetrachloroethene	4.46 U	4.46	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
trans-1,2-Dichloroethene	4.46 U	4.46	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Toluene	4.46 U	4.46	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
trans-1,3-Dichloropropene	4.46 U	4.46	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Trichloroethene	4.46 U	4.46	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Vinyl chloride	8.92 U	8.92	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Xylenes, total	4.46 U	4.46	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Surrogate: 1,2-Dichloroethane-d4	*104 %*	*60-130*			*L102348*	*02/18/2011*	*02/18/2011*	*8260B*
Surrogate: Toluene-d8	*95 %*	*72-117*			*L102348*	*02/18/2011*	*02/18/2011*	*8260B*
Surrogate: 4-Bromofluorobenzene	*101 %*	*72-144*			*L102348*	*02/18/2011*	*02/18/2011*	*8260B*

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WC-Hanford, Inc.	Project: RC-194	
2620 Fermi Avenue	Project Number: K3173	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	02/28/2011 09:29

B28VM2

1102141-02 (Soil)

Analyte	Result and Qualifier		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Lionville Laboratory									
Volatile Organic Compounds by SW846 8260B									
1,1,1-Trichloroethane	4.09	U	4.09	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,1,2,2-Tetrachloroethane	4.09	U	4.09	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,1,2-Trichloroethane	4.09	U	4.09	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,1-Dichloroethane	4.09	U	4.09	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,1-Dichloroethene	4.09	U	4.09	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,2-Dichloroethane	4.90	U	4.90	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,2-Dichloroethene (total)	4.09	U	4.09	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,2-Dichloropropane	4.09	U	4.09	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
2-Butanone	9.81	U	9.81	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
2-Hexanone	9.81	U	9.81	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
4-Methyl-2-pentanone	9.81	U	9.81	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Acetone	**4.60**	**B, J**	9.81	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Benzene	4.09	U	4.09	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Bromodichloromethane	4.90	U	4.90	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Bromoform	4.09	U	4.09	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Bromomethane	8.17	U	8.17	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Carbon Disulfide	4.09	U	4.09	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Carbon Tetrachloride	4.09	U	4.09	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Chlorobenzene	4.09	U	4.09	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Chloroethane	8.17	U	8.17	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Chloroform	4.09	U	4.09	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Chloromethane	8.17	U	8.17	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
cis-1,2-Dichloroethene	4.09	U	4.09	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
cis-1,3-Dichloropropene	4.09	U	4.09	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Dibromochloromethane	4.09	U	4.09	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Ethylbenzene	4.09	U	4.09	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Methylene Chloride	**4.74**	**B, J**	4.90	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Styrene	4.09	U	4.09	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Tetrachloroethene	4.09	U	4.09	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
trans-1,2-Dichloroethene	4.09	U	4.09	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Toluene	4.09	U	4.09	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
trans-1,3-Dichloropropene	4.09	U	4.09	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Trichloroethene	4.09	U	4.09	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Vinyl chloride	8.17	U	8.17	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Xylenes, total	4.09	U	4.09	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
TIC:Unknown1	**7.26**	**J**		ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Surrogate: 1,2-Dichloroethane-d4	*106 %*		*60-130*			*L102348*	*02/18/2011*	*02/18/2011*	*8260B*
Surrogate: Toluene-d8	*96 %*		*72-117*			*L102348*	*02/18/2011*	*02/18/2011*	*8260B*
Surrogate: 4-Bromofluorobenzene	*103 %*		*72-144*			*L102348*	*02/18/2011*	*02/18/2011*	*8260B*

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WC-Hanford, Inc.	Project: RC-194	
2620 Fermi Avenue	Project Number: K3173	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	02/28/2011 09:29

B28VM6

1102141-03 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Volatile Organic Compounds by SW846 8260B								
1,1,1-Trichloroethane	4.82 U	4.82	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,1,2,2-Tetrachloroethane	4.82 U	4.82	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,1,2-Trichloroethane	4.82 U	4.82	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,1-Dichloroethane	4.82 U	4.82	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,1-Dichloroethene	4.82 U	4.82	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,2-Dichloroethane	5.79 U	5.79	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,2-Dichloroethene (total)	4.82 U	4.82	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,2-Dichloropropane	4.82 U	4.82	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
2-Butanone	11.6 U	11.6	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
2-Hexanone	11.6 U	11.6	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
4-Methyl-2-pentanone	11.6 U	11.6	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Acetone	**4.87** B, J	11.6	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Benzene	4.82 U	4.82	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Bromodichloromethane	5.79 U	5.79	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Bromoform	4.82 U	4.82	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Bromomethane	9.64 U	9.64	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Carbon Disulfide	4.82 U	4.82	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Carbon Tetrachloride	4.82 U	4.82	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Chlorobenzene	4.82 U	4.82	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Chloroethane	9.64 U	9.64	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Chloroform	4.82 U	4.82	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Chloromethane	9.64 U	9.64	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
cis-1,2-Dichloroethene	4.82 U	4.82	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
cis-1,3-Dichloropropene	4.82 U	4.82	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Dibromochloromethane	4.82 U	4.82	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Ethylbenzene	4.82 U	4.82	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Methylene Chloride	**2.05** B, J	5.79	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Styrene	4.82 U	4.82	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Tetrachloroethene	4.82 U	4.82	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
trans-1,2-Dichloroethene	4.82 U	4.82	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Toluene	4.82 U	4.82	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
trans-1,3-Dichloropropene	4.82 U	4.82	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Trichloroethene	4.82 U	4.82	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Vinyl chloride	9.64 U	9.64	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Xylenes, total	4.82 U	4.82	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Surrogate: 1,2-Dichloroethane-d4	*104 %*	*60-130*			*L102348*	*02/18/2011*	*02/18/2011*	*8260B*
Surrogate: Toluene-d8	*92 %*	*72-117*			*L102348*	*02/18/2011*	*02/18/2011*	*8260B*
Surrogate: 4-Bromofluorobenzene	*101 %*	*72-144*			*L102348*	*02/18/2011*	*02/18/2011*	*8260B*

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WC-Hanford, Inc.	Project: RC-194	
2620 Fermi Avenue	Project Number: K3173	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	02/28/2011 09:29

B28VN3

1102141-04 (Soil)

Analyte	Result and Qualifier	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Lionville Laboratory						
Volatile Organic Compounds by SW846 8260B								
1,1,1-Trichloroethane	4.18 U	4.18	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,1,2,2-Tetrachloroethane	4.18 U	4.18	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,1,2-Trichloroethane	4.18 U	4.18	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,1-Dichloroethane	4.18 U	4.18	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,1-Dichloroethene	4.18 U	4.18	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,2-Dichloroethane	5.02 U	5.02	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,2-Dichloroethene (total)	4.18 U	4.18	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
1,2-Dichloropropane	4.18 U	4.18	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
2-Butanone	10.0 U	10.0	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
2-Hexanone	10.0 U	10.0	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
4-Methyl-2-pentanone	10.0 U	10.0	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Acetone	**3.92** B, J	10.0	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Benzene	4.18 U	4.18	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Bromodichloromethane	5.02 U	5.02	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Bromoform	4.18 U	4.18	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Bromomethane	8.36 U	8.36	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Carbon Disulfide	4.18 U	4.18	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Carbon Tetrachloride	4.18 U	4.18	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Chlorobenzene	4.18 U	4.18	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Chloroethane	8.36 U	8.36	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Chloroform	4.18 U	4.18	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Chloromethane	8.36 U	8.36	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
cis-1,2-Dichloroethene	4.18 U	4.18	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
cis-1,3-Dichloropropene	4.18 U	4.18	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Dibromochloromethane	4.18 U	4.18	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Ethylbenzene	4.18 U	4.18	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Methylene Chloride	5.02 U	5.02	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Styrene	4.18 U	4.18	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Tetrachloroethene	4.18 U	4.18	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
trans-1,2-Dichloroethene	4.18 U	4.18	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Toluene	4.18 U	4.18	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
trans-1,3-Dichloropropene	4.18 U	4.18	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Trichloroethene	4.18 U	4.18	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Vinyl chloride	8.36 U	8.36	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Xylenes, total	4.18 U	4.18	ug/kg dry	1	L102348	02/18/2011	02/18/2011	8260B
Surrogate: 1,2-Dichloroethane-d4	*111 %*	*60-130*			*L102348*	*02/18/2011*	*02/18/2011*	*8260B*
Surrogate: Toluene-d8	*100 %*	*72-117*			*L102348*	*02/18/2011*	*02/18/2011*	*8260B*
Surrogate: 4-Bromofluorobenzene	*106 %*	*72-144*			*L102348*	*02/18/2011*	*02/18/2011*	*8260B*

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WC-Hanford, Inc.	Project: RC-194	
2620 Fermi Avenue	Project Number: K3173	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	02/28/2011 09:29

Volatile Organic Compounds by SW846 8260B - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L102348 - SW 5035A/5030A									
Blank (L102348-BLK1)			Prepared & Analyzed: 02/18/2011						
1,1,1-Trichloroethane	5.00 U	5.00	ug/kg wet						
1,1,2,2-Tetrachloroethane	5.00 U	5.00	ug/kg wet						
1,1,2-Trichloroethane	5.00 U	5.00	ug/kg wet						
1,1-Dichloroethane	5.00 U	5.00	ug/kg wet						
1,1-Dichloroethene	5.00 U	5.00	ug/kg wet						
1,2-Dichloroethane	6.00 U	6.00	ug/kg wet						
1,2-Dichloroethene (total)	5.00 U	5.00	ug/kg wet						
1,2-Dichloropropane	5.00 U	5.00	ug/kg wet						
2-Butanone	12.0 U	12.0	ug/kg wet						
2-Hexanone	12.0 U	12.0	ug/kg wet						
4-Methyl-2-pentanone	12.0 U	12.0	ug/kg wet						
Acetone	4.19 J	12.0	ug/kg wet						
Benzene	5.00 U	5.00	ug/kg wet						
Bromodichloromethane	6.00 U	6.00	ug/kg wet						
Bromoform	5.00 U	5.00	ug/kg wet						
Bromomethane	10.0 U	10.0	ug/kg wet						
Carbon Disulfide	5.00 U	5.00	ug/kg wet						
Carbon Tetrachloride	5.00 U	5.00	ug/kg wet						
Chlorobenzene	5.00 U	5.00	ug/kg wet						
Chloroethane	10.0 U	10.0	ug/kg wet						
Chloroform	5.00 U	5.00	ug/kg wet						
Chloromethane	10.0 U	10.0	ug/kg wet						
cis-1,2-Dichloroethene	5.00 U	5.00	ug/kg wet						
cis-1,3-Dichloropropene	5.00 U	5.00	ug/kg wet						
Dibromochloromethane	5.00 U	5.00	ug/kg wet						
Ethylbenzene	5.00 U	5.00	ug/kg wet						
Methylene Chloride	2.32 J	6.00	ug/kg wet						
Styrene	5.00 U	5.00	ug/kg wet						
Tetrachloroethene	5.00 U	5.00	ug/kg wet						
trans-1,2-Dichloroethene	5.00 U	5.00	ug/kg wet						
Toluene	5.00 U	5.00	ug/kg wet						
trans-1,3-Dichloropropene	5.00 U	5.00	ug/kg wet						
Trichloroethene	5.00 U	5.00	ug/kg wet						
Vinyl chloride	10.0 U	10.0	ug/kg wet						
Xylenes, total	5.00 U	5.00	ug/kg wet						
Surrogate: 1,2-Dichloroethane-d4	*46.5*		*ug/kg wet*	*50.000*		*93*	*60-130*		

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WC-Hanford, Inc. 2620 Fermi Avenue Richland WA, 99354	Project: RC-194 Project Number: K3173 Project Manager: Joan Kessner	Reported: 02/28/2011 09:29

Volatile Organic Compounds by SW846 8260B - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L102348 - SW 5035A/5030A									
Blank (L102348-BLK1)			Prepared & Analyzed: 02/18/2011						
Surrogate: Toluene-d8	*46.1*		*ug/kg wet*	*50.000*		*92*	*72-117*		
Surrogate: 4-Bromofluorobenzene	*49.2*		*ug/kg wet*	*50.000*		*98*	*72-144*		
LCS (L102348-BS1)			Prepared & Analyzed: 02/18/2011						
1,1,1-Trichloroethane	41.4	5.00	ug/kg wet	50.000		83	65-130		20
1,1,2,2-Tetrachloroethane	54.3	5.00	ug/kg wet	50.000		109	50-130		20
1,1,2-Trichloroethane	50.4	5.00	ug/kg wet	50.000		101	60-125		20
1,1-Dichloroethane	44.6	5.00	ug/kg wet	50.000		89	70-130		20
1,1-Dichloroethene	36.0	5.00	ug/kg wet	50.000		72	60-130		20
1,2-Dichloroethane	44.0	6.00	ug/kg wet	50.000		88	60-130		20
1,2-Dichloroethene (total)	83.9	5.00	ug/kg wet	100.00		84	75-125		20
1,2-Dichloropropane	47.8	5.00	ug/kg wet	50.000		96	70-130		20
2-Butanone	55.8	12.0	ug/kg wet	50.000		112	20-200		20
2-Hexanone	59.1	12.0	ug/kg wet	50.000		118	20-200		20
4-Methyl-2-pentanone	56.4	12.0	ug/kg wet	50.000		113	40-150		20
Acetone	48.9	12.0	ug/kg wet	50.000		98	15-240		20
Benzene	43.6	5.00	ug/kg wet	50.000		87	75-125		20
Bromodichloromethane	46.9	6.00	ug/kg wet	50.000		94	65-135		20
Bromoform	50.3	5.00	ug/kg wet	50.000		101	60-130		20
Bromomethane	55.3	10.0	ug/kg wet	50.000		111	40-150		20
Carbon Disulfide	33.2	5.00	ug/kg wet	50.000		66	55-140		20
Carbon Tetrachloride	45.1	5.00	ug/kg wet	50.000		90	60-135		20
Chlorobenzene	47.6	5.00	ug/kg wet	50.000		95	70-125		20
Chloroethane	63.1	10.0	ug/kg wet	50.000		126	50-150		20
Chloroform	44.7	5.00	ug/kg wet	50.000		89	70-130		20
Chloromethane	57.3	10.0	ug/kg wet	50.000		115	40-130		20
cis-1,2-Dichloroethene	43.2	5.00	ug/kg wet	50.000		86	70-125		20
cis-1,3-Dichloropropene	45.6	5.00	ug/kg wet	50.000		91	70-125		20
Dibromochloromethane	48.8	5.00	ug/kg wet	50.000		98	65-125		20
Ethylbenzene	48.6	5.00	ug/kg wet	50.000		97	70-125		20
Methylene Chloride	39.1	6.00	ug/kg wet	50.000		78	45-140		20
Styrene	51.1	5.00	ug/kg wet	50.000		102	70-125		20
Tetrachloroethene	44.4	5.00	ug/kg wet	50.000		89	60-130		20
trans-1,2-Dichloroethene	40.8	5.00	ug/kg wet	50.000		82	65-130		20
Toluene	47.4	5.00	ug/kg wet	50.000		95	70-125		20
trans-1,3-Dichloropropene	50.5	5.00	ug/kg wet	50.000		101	65-125		20
Trichloroethene	43.3	5.00	ug/kg wet	50.000		87	70-130		20

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WC-Hanford, Inc. 2620 Fermi Avenue Richland WA, 99354	Project: RC-194 Project Number: K3173 Project Manager: Joan Kessner	Reported: 02/28/2011 09:29

Volatile Organic Compounds by SW846 8260B - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L102348 - SW 5035A/5030A									
LCS (L102348-BS1)			Prepared & Analyzed: 02/18/2011						
Vinyl chloride	54.8	10.0	ug/kg wet	50.000		110	50-150		20
Xylenes, total	149	5.00	ug/kg wet	150.00		100	70-125		20
Surrogate: 1,2-Dichloroethane-d4	*47.1*		*ug/kg wet*	*50.000*		*94*	*60-130*		
Surrogate: Toluene-d8	*48.5*		*ug/kg wet*	*50.000*		*97*	*72-117*		
Surrogate: 4-Bromofluorobenzene	*48.9*		*ug/kg wet*	*50.000*		*98*	*72-144*		
Matrix Spike (L102348-MS2)		**Source: 1102141-04**	Prepared & Analyzed: 02/18/2011						
1,1,1-Trichloroethane	37.8	4.27	ug/kg dry	42.662	4.18 U	89	65-130		20
1,1,2,2-Tetrachloroethane	35.7	4.27	ug/kg dry	42.662	4.18 U	84	50-130		20
1,1,2-Trichloroethane	42.9	4.27	ug/kg dry	42.662	4.18 U	101	60-125		20
1,1-Dichloroethane	39.2	4.27	ug/kg dry	42.662	4.18 U	92	70-130		20
1,1-Dichloroethene	29.4	4.27	ug/kg dry	42.662	4.18 U	69	60-130		20
1,2-Dichloroethane	40.7	5.12	ug/kg dry	42.662	5.02 U	95	60-130		20
1,2-Dichloroethene (total)	74.0	4.27	ug/kg dry	85.325	4.18 U	87	75-125		20
1,2-Dichloropropane	43.7	4.27	ug/kg dry	42.662	4.18 U	102	70-130		20
2-Butanone	47.7	10.2	ug/kg dry	42.662	10.0 U	112	20-200		20
2-Hexanone	44.9	10.2	ug/kg dry	42.662	10.0 U	105	20-200		20
4-Methyl-2-pentanone	46.2	10.2	ug/kg dry	42.662	10.0 U	108	40-150		20
Acetone	43.1	10.2	ug/kg dry	42.662	3.92	92	15-240		20
Benzene	39.1	4.27	ug/kg dry	42.662	4.18 U	92	75-125		20
Bromodichloromethane	44.1	5.12	ug/kg dry	42.662	5.02 U	103	65-135		20
Bromoform	42.0	4.27	ug/kg dry	42.662	4.18 U	99	60-130		20
Bromomethane	52.2	8.53	ug/kg dry	42.662	8.36 U	122	40-150		20
Carbon Disulfide	29.3	4.27	ug/kg dry	42.662	4.18 U	69	55-140		20
Carbon Tetrachloride	41.6	4.27	ug/kg dry	42.662	4.18 U	98	60-135		20
Chlorobenzene	41.0	4.27	ug/kg dry	42.662	4.18 U	96	70-125		20
Chloroethane	54.3	8.53	ug/kg dry	42.662	8.36 U	127	50-150		20
Chloroform	41.9	4.27	ug/kg dry	42.662	4.18 U	98	70-130		20
Chloromethane	38.0	8.53	ug/kg dry	42.662	8.36 U	89	40-130		20
cis-1,2-Dichloroethene	37.2	4.27	ug/kg dry	42.662	4.18 U	87	70-125		20
cis-1,3-Dichloropropene	36.8	4.27	ug/kg dry	42.662	4.18 U	86	70-125		20
Dibromochloromethane	43.0	4.27	ug/kg dry	42.662	4.18 U	101	65-125		20
Ethylbenzene	41.3	4.27	ug/kg dry	42.662	4.18 U	97	70-125		20
Methylene Chloride	36.3	5.12	ug/kg dry	42.662	5.02 U	85	45-140		20
Styrene	43.9	4.27	ug/kg dry	42.662	4.18 U	103	70-125		20
Tetrachloroethene	38.4	4.27	ug/kg dry	42.662	4.18 U	90	60-130		20
trans-1,2-Dichloroethene	36.8	4.27	ug/kg dry	42.662	4.18 U	86	65-130		20

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WC-Hanford, Inc.	Project: RC-194	
2620 Fermi Avenue	Project Number: K3173	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	02/28/2011 09:29

Volatile Organic Compounds by SW846 8260B - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L102348 - SW 5035A/5030A									
Matrix Spike (L102348-MS2)		**Source: 1102141-04**	Prepared & Analyzed: 02/18/2011						
Toluene	40.6	4.27	ug/kg dry	42.662	4.18 U	95	70-125		20
trans-1,3-Dichloropropene	41.3	4.27	ug/kg dry	42.662	4.18 U	97	65-125		20
Trichloroethene	47.9	4.27	ug/kg dry	42.662	4.18 U	112	70-130		20
Vinyl chloride	40.0	8.53	ug/kg dry	42.662	8.36 U	94	50-150		20
Xylenes, total	127	4.27	ug/kg dry	127.99	4.18 U	99	70-125		20
Surrogate: 1,2-Dichloroethane-d4	*44.7*		*ug/kg dry*	*42.662*		*105*	*60-130*		
Surrogate: Toluene-d8	*42.4*		*ug/kg dry*	*42.662*		*99*	*72-117*		
Surrogate: 4-Bromofluorobenzene	*43.6*		*ug/kg dry*	*42.662*		*102*	*72-144*		
Matrix Spike Dup (L102348-MSD2)		**Source: 1102141-04**	Prepared & Analyzed: 02/18/2011						
1,1,1-Trichloroethane	44.2	5.10	ug/kg dry	51.048	4.18 U	87	65-130	2	20
1,1,2,2-Tetrachloroethane	40.2	5.10	ug/kg dry	51.048	4.18 U	79	50-130	6	20
1,1,2-Trichloroethane	51.6	5.10	ug/kg dry	51.048	4.18 U	101	60-125	0.5	20
1,1-Dichloroethane	45.9	5.10	ug/kg dry	51.048	4.18 U	90	70-130	2	20
1,1-Dichloroethene	35.1	5.10	ug/kg dry	51.048	4.18 U	69	60-130	0.2	20
1,2-Dichloroethane	48.3	6.13	ug/kg dry	51.048	5.02 U	95	60-130	0.7	20
1,2-Dichloroethene (total)	89.1	5.10	ug/kg dry	102.10	4.18 U	87	75-125	0.6	20
1,2-Dichloropropane	51.2	5.10	ug/kg dry	51.048	4.18 U	100	70-130	2	20
2-Butanone	57.2	12.3	ug/kg dry	51.048	10.0 U	112	20-200	0.3	20
2-Hexanone	55.5	12.3	ug/kg dry	51.048	10.0 U	109	20-200	3	20
4-Methyl-2-pentanone	54.4	12.3	ug/kg dry	51.048	10.0 U	107	40-150	2	20
Acetone	52.5	12.3	ug/kg dry	51.048	3.92	95	15-240	4	20
Benzene	45.3	5.10	ug/kg dry	51.048	4.18 U	89	75-125	3	20
Bromodichloromethane	51.3	6.13	ug/kg dry	51.048	5.02 U	101	65-135	3	20
Bromoform	50.0	5.10	ug/kg dry	51.048	4.18 U	98	60-130	0.6	20
Bromomethane	55.1	10.2	ug/kg dry	51.048	8.36 U	108	40-150	12	20
Carbon Disulfide	35.2	5.10	ug/kg dry	51.048	4.18 U	69	55-140	0.3	20
Carbon Tetrachloride	49.7	5.10	ug/kg dry	51.048	4.18 U	97	60-135	0.08	20
Chlorobenzene	47.5	5.10	ug/kg dry	51.048	4.18 U	93	70-125	3	20
Chloroethane	63.9	10.2	ug/kg dry	51.048	8.36 U	125	50-150	2	20
Chloroform	48.5	5.10	ug/kg dry	51.048	4.18 U	95	70-130	3	20
Chloromethane	49.2	10.2	ug/kg dry	51.048	8.36 U	96	40-130	8	20
cis-1,2-Dichloroethene	44.5	5.10	ug/kg dry	51.048	4.18 U	87	70-125	0.08	20
cis-1,3-Dichloropropene	43.6	5.10	ug/kg dry	51.048	4.18 U	86	70-125	1	20
Dibromochloromethane	48.9	5.10	ug/kg dry	51.048	4.18 U	96	65-125	5	20
Ethylbenzene	46.9	5.10	ug/kg dry	51.048	4.18 U	92	70-125	5	20
Methylene Chloride	41.2	6.13	ug/kg dry	51.048	5.02 U	81	45-140	5	20

LIONVILLE LABORATORY
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WC-Hanford, Inc.	Project: RC-194	
2620 Fermi Avenue	Project Number: K3173	Reported:
Richland WA, 99354	Project Manager: Joan Kessner	02/28/2011 09:29

Volatile Organic Compounds by SW846 8260B - Quality Control

Lionville Laboratory

Analyte	Result and Qualifiers	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch L102348 - SW 5035A/5030A									
Matrix Spike Dup (L102348-MSD2)	**Source: 1102141-04**		**Prepared & Analyzed: 02/18/2011**						
Styrene	51.6	5.10	ug/kg dry	51.048	4.18 U	101	70-125	2	20
Tetrachloroethene	44.0	5.10	ug/kg dry	51.048	4.18 U	86	60-130	4	20
trans-1,2-Dichloroethene	44.5	5.10	ug/kg dry	51.048	4.18 U	87	65-130	1	20
Toluene	47.1	5.10	ug/kg dry	51.048	4.18 U	92	70-125	3	20
trans-1,3-Dichloropropene	47.4	5.10	ug/kg dry	51.048	4.18 U	93	65-125	4	20
Trichloroethene	57.1	5.10	ug/kg dry	51.048	4.18 U	112	70-130	0.3	20
Vinyl chloride	48.3	10.2	ug/kg dry	51.048	8.36 U	95	50-150	0.8	20
Xylenes, total	149	5.10	ug/kg dry	153.14	4.18 U	97	70-125	2	20
Surrogate: 1,2-Dichloroethane-d4	*52.8*		*ug/kg dry*	*51.048*		*103*	*60-130*		
Surrogate: Toluene-d8	*48.4*		*ug/kg dry*	*51.048*		*95*	*72-117*		
Surrogate: 4-Bromofluorobenzene	*50.5*		*ug/kg dry*	*51.048*		*99*	*72-144*		

PREPARATION BENCH SHEET

L102348

Lionville Laboratory

Printed: 2/23/2011 2:49:14PM

Matrix: Solid **Prepared using: VOAGCMS - SW 5035A/5030A** **Surrogate used: 1001878**

Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Client	Extraction Comments
1102126-01	8260B (5035A) TCL VOC	02/18/2011 12:35	5.76	5				5	WC-Hanford, Inc.	
1102126-02	8260B (5035A) TCL VOC	02/18/2011 13:08	4.1	5				5	WC-Hanford, Inc.	
1102126-03	8260B (5035A) TCL VOC	02/18/2011 13:40	5.08	5				5	WC-Hanford, Inc.	
1102141-01	8260B (5035A) TCL VOC	02/18/2011 15:19	5.67	5				5	WC-Hanford, Inc.	
1102141-02	8260B (5035A) TCL VOC	02/18/2011 15:51	6.2	5				5	WC-Hanford, Inc.	
1102141-03	8260B (5035A) TCL VOC	02/18/2011 16:24	5.76	5				5	WC-Hanford, Inc.	
1102141-04	8260B (5035A) TCL VOC	02/18/2011 16:57	6.4	5				5	WC-Hanford, Inc.	
1102150-01	8260B (5035A) TCL VOC	02/18/2011 18:35	5.4	5				5	WC-Hanford, Inc.	
1102150-02	8260B (5035A) TCL VOC	02/18/2011 19:08	5.7	5				5	WC-Hanford, Inc.	
L102348-BLK1	QC	02/18/2011 11:47	5	5				5		
L102348-BS1	QC	02/18/2011 11:02	5	5	1000841		2.5	5		
L102348-MS1	QC	02/18/2011 14:13	6.53	5	1000841	1102126-03	2.5	5		126 QC
L102348-MS2	QC	02/18/2011 17:30	6.27	5	1000841	1102141-04	2.5	5		141 QC
L102348-MS3	QC	02/18/2011 19:41	6	5	1000841	1102150-02	2.5	5		150 QC
L102348-MSD1	QC	02/18/2011 14:46	5.18	5	1000841	1102126-03	2.5	5		126 QC
L102348-MSD2	QC	02/18/2011 18:03	5.24	5	1000841	1102141-04	2.5	5		141 QC
L102348-MSD3	QC	02/18/2011 20:14	7.4	5	1000841	1102150-02	2.5	5		150 QC

R 2/24/11

Extracts Relinquished By Date MA 2/27/11 Extracts Received By Date

Lionville Laboratory Use Only

1102141

Custody Transfer Record/Lab Work Request

Page 1 of 1

Lionville Laboratory
A Division of Eberline Analytical Corporation

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Client: WC Hanford SAF# RC-194
Est. Final Proj. Sampling Date:
Project#:
Project Contact/Phone#:
Lionville Laboratory Project Manager: O Tohuan
QC: S(W) Del: STD TAT: 21 days
Date Rec'd: 2-16-11 Date Due: 3-9-11

		A-D									E					
Refrigerator #		FOC									1					
#/Type Container	Liquid															
	Solid	4AG									1AG					
Volume	Liquid															
	Solid	40									40					
Preservatives		—									—					
ANALYSES REQUESTED →		ORGANIC							INORG							
		VOA	BNA	Pest/PCB	Herb				Metal	CN	% Solids					

MATRIX CODES:	Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	VOA	BNA	Pest/PCB	Herb				Metal	CN	% Solids				
								Lionville Laboratory Use Only													
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	01	B28VL7			S	2-11	0745	X									X				
	02	M2					0900	X									X				
	03	M6					1055	X									X				
	04	N3					1055	X									X				

Special Instructions:

Special Instructions: See SRC

1.
2.
3.
4.
5.
6.

Relinquished by	Received by	Date	Time
[signature]	[signature]	2/16/11	0930

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time
ORIGINAL REWRITTEN			

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-194-072	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
Christian Loaiciga, KAUER	ANNA RADLOFF	376-4554	KESSNER, JH	AIR QUALITY ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7971 (118-F-1); I-001	Soil/Sediment Sampling - Integrated Remedial Investigation/Feasibility Stud		RC-194		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
GWS-180	HNF-N-585-12 pg 66	17.3-19.8 ft	302513ES10	FEDERAL EXPRESS	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Lionville Laboratory Incorporated	SEE PTR		SEE PTR	7967658 89101	

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
RADIOACTIVE TIE TO: B28VL5

PRESERVATION	Cool <-7C and >-20C
HOLDING TIME	14 Days
TYPE OF CONTAINER	aGs
NO. OF CONTAINER(S)	5
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL 100 Area RI/FS);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B28VL7	SOIL	2/11/11	0745	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
E. Christian E. Christian	2/11/11 1400	MO-413 SSU-F1	2/11/11 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
SSU-F1	2-15-11 1000	Cm Aguilar Cm Aguilar	2-15-11 1000
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Cm Aguilar Cm Aguilar	2-15-11 1400	FEDEX	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
FEDEX	2-16-11 0930	VICTOR HERNANDEZ	2-16-11 0930
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

SPECIAL INSTRUCTIONS
The laboratory is to analyze pH within 24 hours of receipt.☐☐** The RCCC acknowledges that the analytical holding time for Nitrate, Nitrite, and Phosphate by EPA methods 300.0 or 9056 will not be met.

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			RC-194-077	PAGE 1 OF 1
COLLECTOR Christian, Garcia, Kaller	COMPANY CONTACT ANNA RADLOFF	TELEPHONE NO. 376-4554	PROJECT COORDINATOR KESSNER, JH	PRICE CODE 8N AIR QUALITY ☐	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION C7971 (118-F-1); I-002	PROJECT DESIGNATION Soil/Sediment Sampling - Integrated Remedial Investigation/Feasibility Stud		SAF NO. RC-194		
ICE CHEST NO. GWS-180	FIELD LOGBOOK NO. HNF-N-585-12 pg 66	ACTUAL SAMPLE DEPTH 19.7-22.2 ft	COA 302513ES10	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO Lionville Laboratory Incorporated	OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. SEE PTR 7967658 89101		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
RADIOACTIVE TIE TO: B28VL5

PRESERVATION	Cool <-7C and >-20C
HOLDING TIME	14 Days
TYPE OF CONTAINER	aGs
NO. OF CONTAINER(S)	5
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL 100 Area R1/FS);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B28VM2	SOIL	2/10/11	0900	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM E. Christian E. Christian	DATE/TIME 2/11/11 1400	RECEIVED BY/STORED IN MO-413 SSV-F1	DATE/TIME 2/11/11 1400
RELINQUISHED BY/REMOVED FROM SSV-F1 2-15-11	DATE/TIME 1000	RECEIVED BY/STORED IN Cm Aguilar Cm Aguilar 2-15-11	DATE/TIME 1000
RELINQUISHED BY/REMOVED FROM Cm Aguilar Cm Aguilar 2-15-11	DATE/TIME 1400	RECEIVED BY/STORED IN FEDEX	DATE/TIME
RELINQUISHED BY/REMOVED FROM FedEx 2-16-11	DATE/TIME 0930	RECEIVED BY/STORED IN Victor Hernandez 2-16-11	DATE/TIME 0930
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

SPECIAL INSTRUCTIONS
The laboratory is to analyze pH within 24 hours of receipt.☐☐** The RCCC acknowledges that the analytical holding time for Nitrate, Nitrite, and Phosphate by EPA methods 300.0 or 9056 will not be met.

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			RC-194-081	PAGE 1 OF 1
COLLECTOR Christian, LeAnella, Kauer	COMPANY CONTACT ANNA RADLOFF	TELEPHONE NO. 376-4554	PROJECT COORDINATOR KESSNER, JH	PRICE CODE 8N AIR QUALITY ☐	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION C7971 (118-F-1); I-003 DUP	PROJECT DESIGNATION Soil/Sediment Sampling - Integrated Remedial Investigation/Feasibility Stud		SAF NO. RC-194		
ICE CHEST NO. CWS-180	FIELD LOGBOOK NO. ~~HNF-N-~~ 585-12 PG 66	ACTUAL SAMPLE DEPTH 25.3 - 27.85	COA 302513ES10	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO Lionville Laboratory Incorporated	OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. SEE PTR 7967658 9101		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION	Cool <-7C and >-20C
		HOLDING TIME	14 Days
		TYPE OF CONTAINER	aGs
		NO. OF CONTAINER(S)	5
		VOLUME	40mL
	SPECIAL HANDLING AND/OR STORAGE RADIOACTIVE TIE TO: ~~B28VL5~~ B28VN1 12/27/2010	SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL 100 Area RI/FS);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B28VM6	SOIL	2/11/11	1655	/

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM E. Christian E. Christian	DATE/TIME 2/11/11 1400	RECEIVED BY/STORED IN MO-413 SSU-F1	DATE/TIME 2/11/11 1400
RELINQUISHED BY/REMOVED FROM SSU-F1	DATE/TIME 2-15-11 1000	RECEIVED BY/STORED IN cm Aguilar cm Aguilar	DATE/TIME 2-15-11 1000
RELINQUISHED BY/REMOVED FROM cm Aguilar cm Aguilar	DATE/TIME 2-15-11 1400	RECEIVED BY/STORED IN FEDEX	DATE/TIME
RELINQUISHED BY/REMOVED FROM FedEx	DATE/TIME 2-16-11 0930	RECEIVED BY/STORED IN VICTOR HERNANDEZ	DATE/TIME 2-16-11 0930
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

SPECIAL INSTRUCTIONS

The laboratory is to analyze pH within 24 hours of receipt.☐☐** The RCCC acknowledges that the analytical holding time for Nitrate, Nitrite, and Phosphate by EPA methods 300.0 or 9056 will not be met.

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			RC-194-088	PAGE 1 OF 1
COLLECTOR Christian, Lakela, KRAUER	COMPANY CONTACT ANNA RADLOFF	TELEPHONE NO. 376-4554	PROJECT COORDINATOR KESSNER, JH	PRICE CODE 8N AIR QUALITY ☐	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION C7971 (118-F-1); I-003	PROJECT DESIGNATION Soil/Sediment Sampling - Integrated Remedial Investigation/Feasibility Stud		SAF NO. RC-194		
ICE CHEST NO. GWS-180	FIELD LOGBOOK NO. HNF-N-585-12 pg 66	ACTUAL SAMPLE DEPTH 25.3-27.8 ft	COA 302513ES10	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO Lionville Laboratory Incorporated	OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. SEE PTR	7967658 89101	

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
RADIOACTIVE TIE TO: ~~B28VN2~~ MUM 10/6/10
B28VN1

PRESERVATION	Cool <-7C and >-20C
HOLDING TIME	14 Days
TYPE OF CONTAINER	aGs
NO. OF CONTAINER(S)	5
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL 100 Area RI/FS);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B28VN3	SOIL	2/11/11	1055	–

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM E. Christian E. Christian	DATE/TIME 2/11/11 1400	RECEIVED BY/STORED IN MO-413 SSU-F1	DATE/TIME 2/11/11 1400
RELINQUISHED BY/REMOVED FROM SSU-F1 2-15-11	DATE/TIME 1000	RECEIVED BY/STORED IN Cm Aguilar Cm Aguilar 2-15-11	DATE/TIME 1000
RELINQUISHED BY/REMOVED FROM Cm Aguilar Cm Aguilar 2-15-11	DATE/TIME 1400	RECEIVED BY/STORED IN FEDEX	DATE/TIME
RELINQUISHED BY/REMOVED FROM FEDEX 2-16-11	DATE/TIME 0930	RECEIVED BY/STORED IN Victor Hernandez 2-16-11	DATE/TIME 0930
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

SPECIAL INSTRUCTIONS
The laboratory is to analyze pH within 24 hours of receipt.☐☐** The RCCC acknowledges that the analytical holding time for Nitrate, Nitrite, and Phosphate by EPA methods 300.0 or 9056 will not be met.

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

SAMPLE RECORD SHEET FOR VOC SAMPLE COLLECTION

Location: C 7971 I-001 100F

Sampler Initials and Date: KC 2/11/11 @ 0725

Sample Number [1]	Sample Suffix	Initial Weight [2] (grams)	Total Weight [3] (grams)	Soil Weight [4] (grams)
B28UL7	K	29.44	35.11	5.67
B28UL7	L	29.52	33.61	4.09
B28UL7	M	29.45	33.29	3.84
B28UL7	N	29.36	33.57	4.21
B28UL7	P	29.45	34.85	5.40

[1] Enter sample number associated with the sampling event.

[2] Initial weight is to include all labels, stickers, bags, spin bars (for samples with suffix K, L, M, N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

[3] Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

[4] Soil weight is the vial with sample minus Initial Weight.

A-6005-526 (REV 0)

SN / 7131321303 CH

CAL DUE: 12/29/11

SAMPLE RECORD SHEET FOR VOC SAMPLE COLLECTION

Location: C7971 I-002 100F

Sampler Initials and Date: SC 2/11/11

Sample Number [1]	Sample Suffix	Initial Weight [2] (grams)	Total Weight [3] (grams)	Soil Weight [4] (grams)
B28VM2	K	29.30	35.50	6.20
	L	29.43	34.73	5.30
	M	29.46	34.49	5.03
	N	29.29	35.37	6.08
	P	29.38	35.85	6.47

[1] Enter sample number associated with the sampling event.

[2] Initial weight is to include all labels, stickers, bags, spin bars (for samples with suffix K, L, M, N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

[3] Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

[4] Soil weight is the vial with sample minus Initial Weight.

A-6005-526 (REV 0)

Scale # 7131321303
Exp 12-29-11 STD WT # 199.65

SAMPLE RECORD SHEET FOR VOC SAMPLE COLLECTION

Location: C7971 I-003 Dup 100F

Sampler Initials and Date: SK 2/11/11

Sample Number [1]	Sample Suffix	Initial Weight [2] (grams)	Total Weight [3] (grams)	Soil Weight [4] (grams)
B28VM6	K	29.25	35.01	5.76
B28VM6	L	29.54	35.69	6.15
B28VM6	M	29.43	35.81	6.38
B28VM6	N	29.44	34.71	5.27
B28VM6	P	29.38	34.74	5.36

[1] Enter sample number associated with the sampling event.

[2] Initial weight is to include all labels, stickers, bags, spin bars (for samples with suffix K, L, M, N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

[3] Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

[4] Soil weight is the vial with sample minus Initial Weight.

A-6005-526 (REV 0)

Scale # 7131321303
Cal Due 12/29/11

SAMPLE RECORD SHEET FOR VOC SAMPLE COLLECTION

Location: C7971 I-003 100F

Sampler Initials and Date: EK 2-11-11

Sample Number [1]	Sample Suffix	Initial Weight [2] (grams)	Total Weight [3] (grams)	Soil Weight [4] (grams)
B28VN3	K	29.59	35.99	6.40
B28VN3	L	29.53	35.80	6.27
B28VN3	M	29.50	34.74	5.24
B28VN3	N	29.44	33.84	4.40
B28VN3	P	29.51	35.29	5.78

[1] Enter sample number associated with the sampling event.

[2] Initial weight is to include all labels, stickers, bags, spin bars (for samples with suffix K, L, M, N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

[3] Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

[4] Soil weight is the vial with sample minus Initial Weight.

A-6005-526 (REV 0)

Scale # 731321303
Cal Date 12/29/11

Lionville Laboratory

SAMPLE RECEIPT CHECKLIST (SRC)

CLIENT: WC Hanford

Project/SAF/SOW/Release #: RC-194

Date: 2-16-11

LvL Batch #: 1102141

Sample Custodian: [signature]

NOTE: EXPLAIN ALL DISCREPANCIES

1. Samples Hand Delivered or Shipped?	Carrier Fed Ex		Airbill # 7967 6588 9101
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 2.2°	°C	Cooler # GWS-180
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 _____