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FLUOR

Memorandum

M4W41-SLF-08-541

To: H. Hampt E6-35 Date: May 19, 2008

From: S. L. Fitzgerald, Manager
WSCF Analytical Lab 

cc: w/Attachments

T. F. Dale	S3-30	J. E. Trechter	S3-30
H. K. Meznarich	S3-30	S. J. Trent	E6-35
P. D. Mix	S3-30	File/LB	

Subject: FINAL RESULTS FOR SAMPLE DELIVERY GROUP WSCF20080802 – SAF NUMBER F08-067

Reference: (1) Groundwater Protection Program-Letter of Instruction, FH-EIS-2003-MEM-001, October 31, 2002

(2) HNF-SD-CD-QAPP-017, Rev. 8, Waste Sampling & Characterization Facility Quality Assurance Plan

This letter contains the following information for sample delivery group WSCF20080802:

- Cover Sheet (Attachment 1)
- Narrative (Attachment 2)
- Issue Resolution Form (Attachment 3)
- Analytical Results (Attachment 4)
- Sample Receipt Information (Attachment 5)

SLF/grf

Attachments 5

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M4W41-SLF-08-541

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20080802
Data Deliverable Date: 29-may-2008
Data Deliverable: Cover Sheet

SAF#	Sample ID	WSCF#	Matrix
F08-067	B1TFK5	W08GR01032	WATER

M4W41-SLF-08-541

ATTACHMENT 2

NARRATIVE

Consisting of 3 pages
Including cover page

Introduction

One S&GRP sample was received at the WSCF Laboratory on April 15, 2008. Sample was analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Groundwater Remediation Program – Letter of Instruction*, referenced in the cover letter

The narrative (Attachment 2) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A copy of Issue Resolution Form #08-055, documenting missed VOA hold time requirement is included as Attachment 3. A Data Summary Report (Attachment 4) includes analytical results, a comment report detailing method abnormalities, tentatively identified peaks if applicable, method references, and Laboratory QC information as applicable. Copies of the chain of custody and sample receipt documentation are included as Attachment 5.

It should be noted that the attached chain of custody was stamped “ICED” by the WSCF Laboratory Sample Custodian during sample receiving, indicating the presence of ice in the sample container.

Analytical Methodology for Requested Analyses

Refer to *WSCF Method References Report*, page 12, for a complete listing of approved analytical methods.

Organic Comments

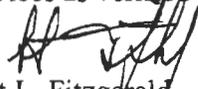
VOA – The hold time requirement for this analysis was not met. See comment below. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample, were analyzed with this delivery group per the GRP Letter of Instruction. See pages 15 through 17 for QC details. Analytical Note(s):

- Missed Hold Time – Sample was collected in the field on April 3, 2008, delivered to the WSCF Laboratory on April 15, 2008. Sample was successfully analyzed on April 29, 2008. A copy of Issue Resolution Form #08-055, documenting missed VOA hold time requirement is included as Attachment 3.
- Matrix Spike and Matrix Spike Duplicate were analyzed on sample# B1TPJ9 (SDG# 20080763, SAF# F08-085).

All QC controls are within the established limits.

I certify that this data package is in compliance with the LOI, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this

hard copy data package has been authorized by the Laboratory Analytical Manager and Client Services as verified by the following signatures.



Scot L. Fitzgerald
WSCF Analytical Laboratory Manager



Pauline D. Mix
WSCF Client Services

M4W41-SLF-08-541

ATTACHMENT 3

ISSUE RESOLUTION FORM

Consisting of 2 pages
Including cover page

ISSUE RESOLUTION FORM

PNNL TRACKING NUMBER: 08-055

Date : **5-12-2008** SAF No. **F08-067**

SDG: **WSCF20080802** LOGIN No.: TEST: **VOA @VOA-GPP**

Sample No.(s) **B1TFK5** (**W08GR01032**)

Submitted By: **PD Mix** Submitted To: **H Hampt**

Phone No. **372-1488** Phone No. **376-4319**

Fax No. **372-0456** Fax No

ISSUE

Missed regulatory holding time (14 day) for VOA analysis.

Due to a large sample backlog and schedule issues at the WSCF Laboratory; the client was asked to assist in prioritizing S&GRP samples in the queue for VOA analyses.

With assistance from the client, solid samples B1TFC1 and B1TFC2 (SDG# 20080797) were given high priority which, in turn, delayed analysis of sample# B1TFK5 beyond the regulatory hold time requirement as required by the chain of custody.

Sample was collected in the field on April 3, 2008 and delivered to the WSCF Laboratory on April 15, 2008. Analysis was successfully completed on April 29, 2008 after the hold time had expired.

All QC controls were within established laboratory limits.

PROPOSED RESOLUTION

Accept results (accept as-is) and document missed holding time in the case narrative.

GRP COMMENTS

Accept proposed resolution.

Heidi Hampt 5/13/08
Signature and Date

M4W41-SLF-08-541

ATTACHMENT 4

ANALYTICAL RESULTS

Consisting of 10 pages
Including cover page

**WSCF
ANALYTICAL RESULTS REPORT**

for

Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical: *S. Fitzgerald 5/19/08*
Client Services: *C. D. H. P. D. M. R. 5/19/2008*

All results are reported on an "as received" basis unless otherwise noted in the comment section.

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Contract#: FH-EIS-2003-MEM-001
Report#: WSCF20080802
Report Date: 15-may-2008
Report WGPP/ver. 5.2
Groundwater Remediation Program

Department: Organic

W13q Worklist/Batch/QC Report for Group# WSCF20080802

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
			40990	BLANK		VOA Ground Water Protection
			40990	LCS		VOA Ground Water Protection
			40990	MS	W08GR00976	VOA Ground Water Protection
			40990	MSD	W08GR00976	VOA Ground Water Protection
			40990	SPK-RPD	W08GR00976	VOA Ground Water Protection
			40990	SAMPLE	W08GR01032	VOA Ground Water Protection
			40990	SURR	W08GR01032	VOA Ground Water Protection

WSCF

METHOD REFERENCES REPORT

Department: Organic

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory or industry methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though the WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-523-455	LA-523-455: VOLATILE SAMPLE ANALYSIS BY SW-846
EPA SW-846 8000B	DETERMINATIVE CHROMATOGRAPHIC SEPARATIONS
EPA SW-846 8260B	VOLATILE ORGANIC COMPOUNDS BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)
HEIS 8260_VOA_GCMS	Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Note: A complete list of WSCF analytical procedures and referenced regulatory or industry methods is available online at <http://www2.rl.gov/phmc/as-dol>.

Report Date: 15-may-2008
Report#: WSCF20080802
Report WGPPM/5.2

Page 1

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-067
Sample # W08GR01032
Client ID: B1TFK5

TRENT
WSCF

Matrix: WATER

Group #: WSCF20080802
Department: Organic
Sampled: 04/03/08
Received: 04/15/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
VOA Ground Water Protection											
1,1-Dichloroethene	75-35-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
Trichloroethene	79-01-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
Benzene	71-43-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
Toluene	108-88-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
Chlorobenzene	108-90-7	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
1,1-Dichloroethane	75-34-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
Ethylbenzene	100-41-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
Styrene	100-42-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
1,2-Dichloroethane	107-06-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
4-Methyl-2-Pentanone	108-10-1	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
Dibromochloromethane	124-48-1	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
Tetrachloroethene	127-18-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
Xylenes (total)	1330-20-7	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
1,2-Dichloroethene(Total)	540-59-0	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
Carbon tetrachloride	56-23-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
2-Hexanone	591-78-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
Acetone	67-64-1	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
Chloroform	67-66-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
Bromomethane	74-83-9	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
Chloromethane	74-87-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08

MDL=Minimum Detection Limit U - Analyzed for but not detected above limiting criteria.(org)

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-067
Sample # W08GR01032
Client ID: B1TFK5

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20080802
Department: Organic
Sampled: 04/03/08
Received: 04/15/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Chloroethane	75-00-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
Vinyl chloride	75-01-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
Methylenechloride	75-09-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
Carbon disulfide	75-15-0	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
Bromoform	75-25-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
Bromodichloromethane	75-27-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
1,2-Dichloropropane	78-87-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
2-Butanone	78-93-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
Hexane	110-54-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		04/29/08
Tetrahydrofuran	109-99-9	LA-523-455	U	< 2.00	ug/L			1.00	2.0		04/29/08
Acetonitrile	75-05-8	LA-523-455	U	< 2.00	ug/L			1.00	2.0		04/29/08

MDL = Minimum Detection Limit U - Analyzed for but not detected above limiting criteria.(org)

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Organic**

SDG Number: WSCF20080802
 Matrix: WATER
 Test: VOA Ground Water Protection

Sample Date: 04/09/08
 Receive Date: 04/09/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00976											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	1,1-Dichloroethene	75-35-4	25.380	102.000	% Recov	63.000	117.000				04/29/08
MS	Benzene	71-43-2	24.650	98.600	% Recov	75.000	129.000				04/29/08
MS	4-Bromofluorobenzene(Surr)	460-00-4	52.820	106.000	% Recov	75.000	125.000				04/29/08
MS	Chlorobenzene	108-90-7	25.920	104.000	% Recov	79.000	119.000				04/29/08
MS	1,2-Dichloroethane-d4(Surr)	17060-07-0	51.860	104.000	% Recov	75.000	125.000				04/29/08
MS	Toluene-d8(Surr)	2037-26-5	48.810	97.600	% Recov	75.000	125.000				04/29/08
MS	Toluene	108-88-3	25.180	101.000	% Recov	76.000	120.000				04/29/08
MS	Trichloroethene	79-01-6	23.080	92.300	% Recov	73.000	123.000				04/29/08
MSD	1,1-Dichloroethene	75-35-4	24.690	98.800	% Recov	63.000	117.000				04/29/08
MSD	Benzene	71-43-2	24.470	97.900	% Recov	75.000	129.000				04/29/08
MSD	4-Bromofluorobenzene(Surr)	460-00-4	52.210	104.000	% Recov	75.000	125.000				04/29/08
MSD	Chlorobenzene	108-90-7	25.860	103.000	% Recov	79.000	119.000				04/29/08
MSD	1,2-Dichloroethane-d4(Surr)	17060-07-0	50.940	102.000	% Recov	75.000	125.000				04/29/08
MSD	Toluene-d8(Surr)	2037-26-5	49.180	98.400	% Recov	75.000	125.000				04/29/08
MSD	Toluene	108-88-3	25.170	101.000	% Recov	76.000	120.000				04/29/08
MSD	Trichloroethene	79-01-6	22.790	91.200	% Recov	73.000	123.000				04/29/08
SPK-RPD	1,1-Dichloroethene	75-35-4	98.800		RPD			3.187	20.000		04/29/08
SPK-RPD	Benzene	71-43-2	97.900		RPD			0.712	20.000		04/29/08
SPK-RPD	Chlorobenzene	108-90-7	103.000		RPD			0.966	20.000		04/29/08
SPK-RPD	1,2-Dichloroethane-d4(Surr)	17060-07-0	102.000		RPD			1.942	20.000		04/29/08
SPK-RPD	Toluene-d8(Surr)	2037-26-5	98.400		RPD			0.816	20.000		04/29/08
SPK-RPD	Toluene	108-88-3	101.000		RPD			0.000	20.000		04/29/08
SPK-RPD	Trichloroethene	79-01-6	91.200		RPD			1.199	20.000		04/29/08

Lab ID: W08GR01032
 BATCH QC ASSOCIATED WITH SAMPLE

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Organic**

SDG Number: WSCF20080802
 Matrix: WATER
 Test: VOA Ground Water Protection

Sample Date: 04/03/08
 Receive Date: 04/15/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SURR	4-Bromofluorobenzene(Surr)	460-00-4	51.880	104.000	% Recov	75.000	125.000				04/29/08
SURR	1,2-Dichloroethane-d4(Surr)	17060-07-0	50.820	102.000	% Recov	75.000	125.000				04/29/08
SURR	Toluene-d8(Surr)	2037-26-5	50.280	101.000	% Recov	75.000	125.000				04/29/08

BATCH QC

BLANK	1,1-Dichloroethane	75-34-3	< 1.0	n/a	ug/L					U	04/29/08
BLANK	1,1,1-Trichloroethane	71-55-6	< 1.0	n/a	ug/L					U	04/29/08
BLANK	1,1,2-Trichloroethane	79-00-5	< 1.0	n/a	ug/L					U	04/29/08
BLANK	1,1,2,2-Tetrachloroethane	79-34-5	< 1.0	n/a	ug/L	0.000	5.000			U	04/29/08
BLANK	1,1-Dichloroethene	75-35-4	< 1.0	n/a	ug/L					U	04/29/08
BLANK	1,2-Dichloroethane	107-06-2	< 1.0	n/a	ug/L					U	04/29/08
BLANK	1,2-Dichloroethene(Total)	540-59-0	< 1.0	n/a	ug/L					U	04/29/08
BLANK	2-Hexanone	591-78-6	< 1.0	n/a	ug/L					U	04/29/08
BLANK	4-Methyl-2-Pentanone	108-10-1	< 1.0	n/a	ug/L					U	04/29/08
BLANK	Acetone	67-64-1	< 1.0	n/a	ug/L					U	04/29/08
BLANK	Bromodichloromethane	75-27-4	< 1.0	n/a	ug/L					U	04/29/08
BLANK	Benzene	71-43-2	< 1.0	n/a	ug/L					U	04/29/08
BLANK	4-Bromofluorobenzene(Surr)	460-00-4	53.010	106.000	% Recov	75.000	125.000				04/29/08
BLANK	Bromoform	75-25-2	< 1.0	n/a	ug/L					U	04/29/08
BLANK	Carbon disulfide	75-15-0	< 1.0	n/a	ug/L					U	04/29/08
BLANK	Carbon tetrachloride	56-23-5	< 1.0	n/a	ug/L					U	04/29/08
BLANK	Dibromochloromethane	124-48-1	< 1.0	n/a	ug/L					U	04/29/08
BLANK	Chloroform	67-66-3	< 1.0	n/a	ug/L					U	04/29/08
BLANK	Chlorobenzene	108-90-7	< 1.0	n/a	ug/L					U	04/29/08
BLANK	cis-1,3-Dichloropropene	10061-01-5	< 1.0	n/a	ug/L					U	04/29/08
BLANK	Chloroethane	75-00-3	< 1.0	n/a	ug/L					U	04/29/08
BLANK	1,2-Dichloroethane-d4(Surr)	17060-07-0	50.480	101.000	% Recov	75.000	125.000				04/29/08
BLANK	1,2-Dichloropropane	78-87-5	< 1.0	n/a	ug/L					U	04/29/08
BLANK	Ethylbenzene	100-41-4	< 1.0	n/a	ug/L					U	04/29/08
BLANK	Hexane	110-54-3	< 1.0	n/a	ug/L					U	04/29/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Organic**

SDG Number: WSCF20080802
 Matrix: WATER
 Test: VOA Ground Water Protection

Sample Date:
 Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BLANK	Bromomethane	74-83-9	< 1.0	n/a	ug/L					U	04/29/08
BLANK	Chloromethane	74-87-3	< 1.0	n/a	ug/L					U	04/29/08
BLANK	2-Butanone	78-93-3	< 1.0	n/a	ug/L					U	04/29/08
BLANK	Methylenechloride	75-09-2	< 1.0	n/a	ug/L					U	04/29/08
BLANK	Tetrachloroethene	127-18-4	< 1.0	n/a	ug/L					U	04/29/08
BLANK	Styrene	100-42-5	< 1.0	n/a	ug/L					U	04/29/08
BLANK	Xylenes (total)	1330-20-7	< 1.0	n/a	ug/L	0.000	5.000			U	04/29/08
BLANK	Tetrahydrofuran	109-99-9	< 2.0	n/a	ug/L					U	04/29/08
BLANK	Toluene-d8(Surr)	2037-26-5	48.660	97.300	% Recov	75.000	125.000				04/29/08
BLANK	Toluene	108-88-3	< 1.0	n/a	ug/L					U	04/29/08
BLANK	trans-1,3-Dichloropropene	10061-02-6	< 1.0	n/a	ug/L					U	04/29/08
BLANK	Trichloroethene	79-01-6	< 1.0	n/a	ug/L					U	04/29/08
BLANK	Vinyl chloride	75-01-4	< 1.0	n/a	ug/L					U	04/29/08
LCS	1,1-Dichloroethene	75-35-4	23.820	95.300	% Recov	75.000	125.000				04/29/08
LCS	Benzene	71-43-2	24.790	99.200	% Recov	75.000	125.000				04/29/08
LCS	4-Bromofluorobenzene(Surr)	460-00-4	51.230	102.000	% Recov	75.000	125.000				04/29/08
LCS	Chlorobenzene	108-90-7	25.920	104.000	% Recov	75.000	125.000				04/29/08
LCS	1,2-Dichloroethane-d4(Surr)	17060-07-0	51.470	103.000	% Recov	75.000	125.000				04/29/08
LCS	Toluene-d8(Surr)	2037-26-5	50.130	100.000	% Recov	75.000	125.000				04/29/08
LCS	Toluene	108-88-3	25.290	101.000	% Recov	75.000	125.000				04/29/08
LCS	Trichloroethene	79-01-6	21.850	87.400	% Recov	75.000	125.000				04/29/08

WSCF ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F08-067

Group #: WSCF20080802
Department: Organic

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		VOA: Holding time exceeded due to laboratory outage. gar

Lab Areas: VALGROUP - Group Validation
LOGSAMP - Login for Sample

VALTEST - Test Validation
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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M4W41-SLF-08-541

ATTACHMENT 5

SAMPLE RECEIPT INFORMATION

Consisting of 3 pages
Including cover page

Waste Sampling and Characterization Facility
P.O. BOX 1970 S3-30, Richland, WA 99352
PHONE: (509) 373-7004/FAX: (509) 373-7134

File

ACKNOWLEDGMENT OF SAMPLES RECEIVED

05/29/08

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 123055/ES20
Group#: 20080802
Project#: F08-067
Proj Mgr: Steve Trent E6-35
Phone: 373-5869

The following samples were received from you on 04/15/08. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
W08GR01032	B1TFK5	TRENT @VOA-GPP	Water	04/03/08

Test Acronym Description

Test Acronym	Description
@VOA-GPP	VOA Ground Water Protection

COLLECTOR: NCO Sampler *D Connolly*
 COMPANY CONTACT: TRENT, SJ
 TELEPHONE NO.: 373-5869
 PROJECT COORDINATOR: WIDRIG, DL
 PRICE CODE: 7N
 DATA TURNAROUND: 45 Days / 45 Days
 SAMPLING LOCATION: C6174, I-002-FB
 PROJECT DESIGNATION: 216-5-6 Crib Sampling - QC Sampling
 SAF NO.: F08-067
 AIR QUALITY:
 ICE CHEST NO.:
 FIELD LOGBOOK NO.: *Pg 23* ACTUAL SAMPLE DEPTH: *7'-9'*
 COA: 123055ES20
 METHOD OF SHIPMENT: GOVERNMENT VEHICLE
 SHIPPED TO: Waste Sampling & Characterization *20080802*
 OFFSITE PROPERTY NO.: N/A
 BILL OF LADING/AIR BILL NO.: N/A

MATRIX*
 A=Air
 DL=Drum
 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 are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION: HCl or H2SO4 to pH <2/Cool~4C
 TYPE OF CONTAINER: aGs*
 NO. OF CONTAINER(S): 3
 VOLUME: 40mL
 SAMPLE ANALYSIS: SEE ITEM (1) IN SPECIAL INSTRUCTIONS

ICED

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TFK5 <i>W086201032</i>	WATER	<i>4-3-8</i>	<i>1305</i> ✓

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM: <i>D Connolly</i>	RECEIVED BY/STORED IN: <i>on SITE STORAGE Ref</i>	** S&GRP Characterization and Monitoring Sampling and Analysis - QC Generator Knowledge Form Applies to samples submitted under this SAF. (1)VOA - 8260B (TCL); VOA - 8260B (Add-Ch) {Acetonitrile, Hexane, Tetrahydrofuran}
DATE/TIME: <i>4-3-8 1330</i>	DATE/TIME: <i>4-3-8 1330</i>	
RELINQUISHED BY/REMOVED FROM: <i>DN Site Storage Ref</i>	RECEIVED BY/STORED IN: <i>L.J. Rosano</i>	
DATE/TIME: <i>4-15-08/1330</i>	DATE/TIME: <i>4-15-08/1330</i>	
RELINQUISHED BY/REMOVED FROM: <i>L.J. Rosano</i>	RECEIVED BY/STORED IN: <i>V. L. ...</i>	
DATE/TIME: <i>4-15-08/1415</i>	DATE/TIME: <i>4/16/08 1415</i>	
RELINQUISHED BY/REMOVED FROM:	RECEIVED BY/STORED IN:	
DATE/TIME:	DATE/TIME:	
RELINQUISHED BY/REMOVED FROM:	RECEIVED BY/STORED IN:	
DATE/TIME:	DATE/TIME:	

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

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