


RECEIVED JUNE 6, 2008

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FLUOR**Memorandum**

M4W41-SLF-08-605

To: H. Hampt E6-35 Date: June 6, 2008

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

cc: w/Attachments

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

Subject: FINAL RESULTS FOR SAMPLE DELIVERY GROUP WSCF20080849 – 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 WSCF20080849:

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

SLF/grf

Attachments 4

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ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20080849
Data Deliverable Date: 11-jun-2008
Data Deliverable: Cover Sheet

SAF#	Sample ID	WSCF#	Matrix
F08-067	BITFK8	W08GR01094	WATER
	BITFK9	W08GR01092	WATER
	BITFL0	W08GR01093	WATER
	BITFL1	W08GR01095	WATER
	BITFL2	W08GR01096	WATER

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ATTACHMENT 2

NARRATIVE

Consisting of 2 pages
Including cover page

Introduction

Five S&GRP samples were received at the WSCF Laboratory on April 28, 2008. Samples were 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 Data Summary Report (Attachment 3) 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 4.

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

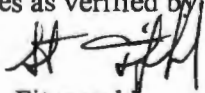
Refer to *WSCF Method References Report*, page 9, for a complete listing of approved analytical methods.

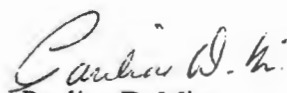
Organic Comments

VOA – The hold time requirement for this analysis was met. 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 20 through 23 for QC details.

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-08-605

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 18 pages
Including cover page

**WSCF
ANALYTICAL RESULTS REPORT**

for

Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical: S.F. Fitzgerald 6/5/08
Client Services: P.O. Miller 6/5/2008

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

This information is intended for the use of the addressee only. If the reader of this report is not the intended recipient or is not authorized by the recipient to receive the report, you are hereby notified that any dissemination, distribution or copying of this report is strictly prohibited. If you have received this report in error, please notify WSCF Laboratory immediately by telephone at (509) 373-7020 or (509) 531-8004. Information designation of this report is the responsibility of the customer.

Contract#: FH-EIS-2003-MEM-001
Report#: WSCF20080849
Report Date: 4-jun-2008
Report WGPP/ver. 5.2

Groundwater Remediation Program

W13q Worklist/Batch/QC Report for Group# WSCF20080849

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
			41272	BLANK		VOA Ground Water Protection
			41272	LCS		VOA Ground Water Protection
			41272	SAMPLE	W08GR01092	VOA Ground Water Protection
			41272	SURR	W08GR01092	VOA Ground Water Protection
			41272	SAMPLE	W08GR01093	VOA Ground Water Protection
			41272	SURR	W08GR01093	VOA Ground Water Protection
			41272	SAMPLE	W08GR01094	VOA Ground Water Protection
			41272	SURR	W08GR01094	VOA Ground Water Protection
			41272	SAMPLE	W08GR01095	VOA Ground Water Protection
			41272	SURR	W08GR01095	VOA Ground Water Protection
			41272	MS	W08GR01096	VOA Ground Water Protection
			41272	MSD	W08GR01096	VOA Ground Water Protection
			41272	SAMPLE	W08GR01096	VOA Ground Water Protection
			41272	SPK-RPD	W08GR01096	VOA Ground Water Protection
			41272	SURR	W08GR01096	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: 4-jun-2008
Report#: WSCF20080849
Report WGPPM/5.2

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-067
Sample # W08GR01092
Client ID: BITFK9

TRENT
WSCF

Matrix: WATER

Group #: WSCF20080849
Department: Organic
Sampled: 04/17/08
Received: 04/28/08

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		05/01/08
Trichloroethene	79-01-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Benzene	71-43-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Toluene	108-88-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Chlorobenzene	108-90-7	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,1 Dichloroethane	75-34-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Ethylbenzene	100-41-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Styrene	100-42-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,2-Dichloroethane	107-06-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
4-Methyl-2-Pentanone	108-10-1	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Dibromochloromethane	124-48-1	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Tetrachloroethene	127-18-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Xylenes (total)	1330-20-7	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,2-Dichloroethene(Total)	540-59-0	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Carbon tetrachloride	56-23-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
2-Hexanone	591-78-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Acetone	67-64-1	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Chloroform	67-66-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Bromomethane	74-83-9	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Chloromethane	74-87-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08

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

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-067
Sample # W08GR01092
Client ID: B1TFK9

TRENT
WSCF

Matrix: WATER

Group #: WSCF20080849
Department: Organic
Sampled: 04/17/08
Received: 04/28/08

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		05/01/08
Vinyl chloride	75-01-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Methylenechloride	75-09-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Carbon disulfide	75-15-0	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Bromoform	75-25-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Bromodichloromethane	75-27-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,2-Dichloropropane	78-87-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
2 Butanone	78-93-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Hexane	110-54-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Tetrahydrofuran	109-99-9	LA-523-455	U	< 2.00	ug/L			1.00	2.0		05/01/08
Acetonitrile	75-05-8	LA-523-455	U	< 2.00	ug/L			1.00	2.0		05/01/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

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Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-067
Sample # W08GR01093
Client ID: BITFLO

TRENT
WSCF

Matrix: WATER

Group #: WSCF20080849
Department: Organic
Sampled: 04/21/08
Received: 04/28/08

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		05/01/08
Trichloroethene	79-01-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Benzene	71-43-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Toluene	108-88-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Chlorobenzene	108-90-7	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,1-Dichloroethane	75-34-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Ethylbenzene	100-41-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Styrene	100-42-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,2-Dichloroethane	107-06-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
4-Methyl-2-Pentanone	108-10-1	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Dibromochloromethane	124-48-1	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Tetrachloroethene	127-18-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Xylenes (total)	1330-20-7	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,2-Dichloroethene(Total)	540-59-0	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Carbon tetrachloride	56-23-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
2-Hexanone	591-78-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Acetone	67-64-1	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Chloroform	67-66-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Bromomethane	74-83-9	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Chloromethane	74-87-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08

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

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-067
Sample # W08GR01093
Client ID: BITFLO

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20080849
Department: Organic
Sampled: 04/21/08
Received: 04/28/08

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		05/01/08
Vinyl chloride	75-01-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Methylenechloride	75-09-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Carbon disulfide	75-15-0	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Bromoform	75-25-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Bromodichloromethane	75-27-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,2-Dichloropropane	78-87-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
2-Butanone	78-93-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Hexane	110-54-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Tetrahydrofuran	109-99-9	LA-523-455	U	< 2.00	ug/L			1.00	2.0		05/01/08
Acetonitrile	75-05-8	LA-523-455	U	< 2.00	ug/L			1.00	2.0		05/01/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

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Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-067
Sample # W08GR01094
Client ID: BITFK8

TRENT
WSCF

Matrix: WATER

Group #: WSCF20080849
Department: Organic
Sampled: 04/17/08
Received: 04/28/08

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		05/01/08
Trichloroethene	79-01-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Benzene	71-43-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Toluene	108-88-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Chlorobenzene	108-90-7	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,1-Dichloroethane	75-34-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Ethylbenzene	100-41-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Styrene	100-42-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,2-Dichloroethane	107-06-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
4-Methyl-2-Pentanone	108-10-1	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Dibromochloromethane	124-48-1	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Tetrachloroethene	127-18-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Xylenes (total)	1330-20-7	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,2-Dichloroethene(Total)	540-59-0	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Carbon tetrachloride	56-23-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
2-Hexanone	591-78-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Acetone	67-64-1	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Chloroform	67-66-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Bromomethane	74-83-9	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Chloromethane	74-87-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08

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

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-067
Sample # W08GR01094
Client ID: B1TFK8

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20080849
Department: Organic
Sampled: 04/17/08
Received: 04/28/08

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		05/01/08
Vinyl chloride	75-01-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Methylenechloride	75-09-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Carbon disulfide	75-15-0	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Bromoform	75-25-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Bromodichloromethane	75-27-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,2-Dichloropropane	78-87-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
2-Butanone	78-93-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Hexane	110-54-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Tetrahydrofuran	109-99-9	LA-523-455	U	< 2.00	ug/L			1.00	2.0		05/01/08
Acetonitrile	75-05-8	LA-523-455	U	< 2.00	ug/L			1.00	2.0		05/01/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

U - Analyzed for but not detected above limiting criteria.(org)

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+ - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

Groundwater Remediation Program

150130

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-067
Sample # W08GR01095
Client ID: BITFL1

TRENT
WSCF

Matrix: WATER

Group #: WSCF20080849
Department: Organic
Sampled: 04/22/08
Received: 04/28/08

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		05/01/08
Trichloroethene	79-01-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Benzene	71-43-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Toluene	108-88-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Chlorobenzene	108-90-7	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,1-Dichloroethane	75-34-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Ethylbenzene	100-41-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Styrene	100-42-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,2-Dichloroethane	107-06-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
4-Methyl-2-Pentanone	108-10-1	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Dibromochloromethane	124-48-1	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Tetrachloroethene	127-18-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Xylenes (total)	1330-20-7	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,2-Dichloroethene(Total)	540-59-0	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Carbon tetrachloride	56-23-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
2-Hexanone	591-78-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Acetone	67-64-1	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Chloroform	67-66-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Bromomethane	74-83-9	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Chloromethane	74-87-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08

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

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Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-067
Sample # W08GR01095
Client ID: BITFL1

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20080849
Department: Organic
Sampled: 04/22/08
Received: 04/28/08

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		05/01/08
Vinyl chloride	75-01-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Methylenechloride	75-09-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Carbon disulfide	75-15-0	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Bromoform	75-25-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Bromodichloromethane	75-27-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,2-Dichloropropane	78-87-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
2-Butanone	78-93-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Hexane	110-54-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Tetrahydrofuran	109-99-9	LA-523-455	U	< 2.00	ug/L			1.00	2.0		05/01/08
Acetonitrile	75-05-8	LA-523-455	U	< 2.00	ug/L			1.00	2.0		05/01/08

MDL=Minimum Detection Limit

U - Analyzed for but not detected above limiting criteria.(org)

RQ=Result Qualifier

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Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-067
Sample # W08GR01096
Client ID: BITFL2

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20080849
Department: Organic
Sampled: 04/23/08
Received: 04/28/08

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		05/01/08
Trichloroethene	79-01-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Benzene	71-43-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Toluene	108-88-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Chlorobenzene	108-90-7	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,1-Dichloroethane	75-34-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Ethylbenzene	100-41-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Styrene	100-42-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,2-Dichloroethane	107-06-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
4-Methyl-2-Pentanone	108-10-1	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Dibromochloromethane	124-48-1	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Tetrachloroethene	127-18-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Xylenes (total)	1330-20-7	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,2-Dichloroethene(Total)	540-59-0	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Carbon tetrachloride	56-23-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
2-Hexanone	591-78-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Acetone	67-64-1	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Chloroform	67-66-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Bromomethane	74-83-9	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Chloromethane	74-87-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08

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

RQ = Result Qualifier

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Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-067
Sample # W08GR01096
Client ID: BITFL2

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20080849
Department: Organic
Sampled: 04/23/08
Received: 04/28/08

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		05/01/08
Vinyl chloride	75-01-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Methylenechloride	75-09-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Carbon disulfide	75-15-0	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Bromoform	75-25-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Bromodichloromethane	75-27-4	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,2-Dichloropropane	78-87-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
2-Butanone	78-93-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Hexane	110-54-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		05/01/08
Tetrahydrofuran	109-99-9	LA-523-455	U	< 2.00	ug/L			1.00	2.0		05/01/08
Acetonitrile	75-05-8	LA-523-455	U	< 2.00	ug/L			1.00	2.0		05/01/08

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

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Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080849
 Matrix: WATER
 Test: VOA Ground Water Protection

Sample Date: 04/17/08
 Receive Date: 04/28/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR01092											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	4-Bromofluorobenzene(Surr)	460-00-4	51.970	104.000	% Recov	75.000	125.000				05/01/08
SURR	1,2-Dichloroethane-d4(Surr)	17060-07-0	52.580	105.000	% Recov	75.000	125.000				05/01/08
SURR	Toluene-d8(Surr)	2037-26-5	50.730	101.000	% Recov	75.000	125.000				05/01/08
Lab ID: W08GR01093											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	4-Bromofluorobenzene(Surr)	460-00-4	51.910	104.000	% Recov	75.000	125.000				05/01/08
SURR	1,2-Dichloroethane-d4(Surr)	17060-07-0	51.740	103.000	% Recov	75.000	125.000				05/01/08
SURR	Toluene-d8(Surr)	2037-26-5	51.070	102.000	% Recov	75.000	125.000				05/01/08
Lab ID: W08GR01094											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	4-Bromofluorobenzene(Surr)	460-00-4	52.040	104.000	% Recov	75.000	125.000				05/01/08
SURR	1,2-Dichloroethane-d4(Surr)	17060-07-0	51.490	103.000	% Recov	75.000	125.000				05/01/08
SURR	Toluene-d8(Surr)	2037-26-5	51.060	102.000	% Recov	75.000	125.000				05/01/08
Lab ID: W08GR01095											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	4-Bromofluorobenzene(Surr)	460-00-4	51.590	103.000	% Recov	75.000	125.000				05/01/08
SURR	1,2-Dichloroethane d4(Surr)	17060-07-0	51.480	103.000	% Recov	75.000	125.000				05/01/08
SURR	Toluene-d8(Surr)	2037-26-5	50.960	102.000	% Recov	75.000	125.000				05/01/08
Lab ID: W08GR01096											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	1,1-Dichloroethene	75-35-4	21.350	85.400	% Recov	63.000	117.000				05/01/08
MS	Benzene	71-43-2	23.560	94.200	% Recov	75.000	129.000				05/01/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080849
 Matrix: WATER
 Test: VOA Ground Water Protection

Sample Date: 04/23/08
 Receive Date: 04/28/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MS	4-Bromofluorobenzene(Surr)	460-00-4	51.120	102.000	% Recov	75.000	125.000				05/01/08
MS	Chlorobenzene	108-90-7	25.450	102.000	% Recov	79.000	119.000				05/01/08
MS	1,2-Dichloroethane-d4(Surr)	17060-07-0	51.480	103.000	% Recov	75.000	125.000				05/01/08
MS	Toluene-d8(Surr)	2037-26-5	50.620	101.000	% Recov	75.000	125.000				05/01/08
MS	Toluene	108-88-3	24.510	98.000	% Recov	76.000	120.000				05/01/08
MS	Trichloroethene	79-01-6	21.250	85.000	% Recov	73.000	123.000				05/01/08
MSD	1,1-Dichloroethene	75-35-4	21.510	86.000	% Recov	63.000	117.000				05/01/08
MSD	Benzene	71-43-2	23.710	94.800	% Recov	75.000	129.000				05/01/08
MSD	4-Bromofluorobenzene(Surr)	460-00-4	51.980	104.000	% Recov	75.000	125.000				05/01/08
MSD	Chlorobenzene	108-90-7	25.640	103.000	% Recov	79.000	119.000				05/01/08
MSD	1,2-Dichloroethane-d4(Surr)	17060-07-0	52.860	106.000	% Recov	75.000	125.000				05/01/08
MSD	Toluene-d8(Surr)	2037-26-5	50.600	101.000	% Recov	75.000	125.000				05/01/08
MSD	Toluene	108-88-3	24.920	99.700	% Recov	76.000	120.000				05/01/08
MSD	Trichloroethene	79-01-6	21.460	85.800	% Recov	73.000	123.000				05/01/08
SPK-RPD	1,1-Dichloroethene	75-35-4	86.000		RPD			0.700	20.000		05/01/08
SPK-RPD	Benzene	71-43-2	94.800		RPD			0.635	20.000		05/01/08
SPK-RPD	Chlorobenzene	108-90-7	103.000		RPD			0.976	20.000		05/01/08
SPK-RPD	1,2-Dichloroethane-d4(Surr)	17060-07-0	106.000		RPD			2.871	20.000		05/01/08
SPK-RPD	Toluene-d8(Surr)	2037-26-5	101.000		RPD			0.000	20.000		05/01/08
SPK-RPD	Toluene	108-88-3	99.700		RPD			1.720	20.000		05/01/08
SPK-RPD	Trichloroethene	79-01-6	85.800		RPD			0.937	20.000		05/01/08
SURR	4-Bromofluorobenzene(Surr)	460-00-4	51.190	102.000	% Recov	75.000	125.000				05/01/08
SURR	1,2-Dichloroethane-d4(Surr)	17060-07-0	51.540	103.000	% Recov	75.000	125.000				05/01/08
SURR	Toluene-d8(Surr)	2037-26-5	51.110	102.000	% Recov	75.000	125.000				05/01/08
BATCH QC											
BLANK	1,1-Dichloroethene	75-34-3	< 1.0	n/a	ug/L					U	05/01/08
BLANK	1,1,1-Trichloroethane	71-55-6	< 1.0	n/a	ug/L					U	05/01/08
BLANK	1,1,2-Trichloroethane	79-00-5	< 1.0	n/a	ug/L					U	05/01/08
BLANK	1,1,2,2-Tetrachloroethane	79-34-5	< 1.0	n/a	ug/L	0.000	5.000			U	05/01/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080849
 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	1,1-Dichloroethene	75-35-4	< 1.0	n/a	ug/L					U	05/01/08
BLANK	1,2-Dichloroethane	107-06-2	< 1.0	n/a	ug/L					U	05/01/08
BLANK	1,2-Dichloroethene(Total)	540-59-0	< 1.0	n/a	ug/L					U	05/01/08
BLANK	2-Hexanone	591-78-6	< 1.0	n/a	ug/L					U	05/01/08
BLANK	4-Methyl-2-Pentanone	108-10-1	< 1.0	n/a	ug/L					U	05/01/08
BLANK	Acetone	67-64-1	< 1.0	n/a	ug/L					U	05/01/08
BLANK	Bromodichloromethane	75-27-4	< 1.0	n/a	ug/L					U	05/01/08
BLANK	Benzene	71-43-2	< 1.0	n/a	ug/L					U	05/01/08
BLANK	4-Bromofluorobenzene(Surr)	460-00-4	51.290	103.000	% Recov	75.000	125.000				05/01/08
BLANK	Bromoform	75-25-2	< 1.0	n/a	ug/L					U	05/01/08
BLANK	Carbon disulfide	75-15-0	< 1.0	n/a	ug/L					U	05/01/08
BLANK	Carbon tetrachloride	56-23-5	< 1.0	n/a	ug/L					U	05/01/08
BLANK	Dibromochloromethane	124-48-1	< 1.0	n/a	ug/L					U	05/01/08
BLANK	Chloroform	67-66-3	< 1.0	n/a	ug/L					U	05/01/08
BLANK	Chlorobenzene	108-90-7	< 1.0	n/a	ug/L					U	05/01/08
BLANK	cis-1,3-Dichloropropene	10061-01-5	< 1.0	n/a	ug/L					U	05/01/08
BLANK	Chloroethane	75-00-3	< 1.0	n/a	ug/L					U	05/01/08
BLANK	1,2-Dichloroethane-d4(Surr)	17060-07-0	50.450	101.000	% Recov	75.000	125.000				05/01/08
BLANK	1,2-Dichloropropane	78-87-5	< 1.0	n/a	ug/L					U	05/01/08
BLANK	Ethylbenzene	100-41-4	< 1.0	n/a	ug/L					U	05/01/08
BLANK	Hexane	110-54-3	< 1.0	n/a	ug/L					U	05/01/08
BLANK	Bromomethane	74-83-9	< 1.0	n/a	ug/L					U	05/01/08
BLANK	Chloromethane	74-87-3	< 1.0	n/a	ug/L					U	05/01/08
BLANK	2-Butanone	78-93-3	< 1.0	n/a	ug/L					U	05/01/08
BLANK	Methylenechloride	75-09-2	< 1.0	n/a	ug/L					U	05/01/08
BLANK	Tetrachloroethene	127-18-4	< 1.0	n/a	ug/L					U	05/01/08
BLANK	Styrene	100-42-5	< 1.0	n/a	ug/L					U	05/01/08
BLANK	Xylenes (total)	1330-20-7	< 1.0	n/a	ug/L	0.000	5.000			U	05/01/08
BLANK	Tetrahydrofuran	109-99-9	< 2.0	n/a	ug/L					U	05/01/08
BLANK	Toluene-d8(Surr)	2037-26-5	49.780	99.600	% Recov	75.000	125.000				05/01/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Organic**

SDG Number: WSCF20080849
 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	Toluene	108-88-3	< 1.0	n/a	ug/L					U	05/01/08
BLANK	trans-1,3-Dichloropropene	10061-02-6	< 1.0	n/a	ug/L					U	05/01/08
BLANK	Trichloroethene	79-01-6	< 1.0	n/a	ug/L					U	05/01/08
BLANK	Vinyl chloride	75-01-4	< 1.0	n/a	ug/L					U	05/01/08
LCS	1,1-Dichloroethene	75-35-4	23.090	92.400	% Recov	75.000	125.000				05/01/08
LCS	Benzene	71-43-2	22.840	91.400	% Recov	75.000	125.000				05/01/08
LCS	4-Bromofluorobenzene(Surr)	460-00-4	51.580	103.000	% Recov	75.000	125.000				05/01/08
LCS	Chlorobenzene	108-90-7	24.450	97.800	% Recov	75.000	125.000				05/01/08
LCS	1,2-Dichloroethane-d4(Surr)	17060-07-0	51.740	103.000	% Recov	75.000	125.000				05/01/08
LCS	Toluene-d8(Surr)	2037-26-5	50.940	102.000	% Recov	75.000	125.000				05/01/08
LCS	Toluene	108-88-3	23.660	94.600	% Recov	75.000	125.000				05/01/08
LCS	Trichloroethene	79-01-6	19.990	80.000	% Recov	75.000	125.000				05/01/08

M4W41-SLF-08-605

ATTACHMENT 4

SAMPLE RECEIPT INFORMATION

Consisting of 7 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

6/11/08

ACKNOWLEDGMENT OF SAMPLES RECEIVED

FILE 1CR

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 123055/ES20
Group#: 20080849
Project#: F08-067
Proj Mgr: Steve Trent E6-35
Phone: 373-5869

The following samples were received from you on 04/28/08. 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
W08GR01092	B1TFK9	TRENT @VOA-GPP	Water	04/17/08
W08GR01093	B1TFL0	TRENT @VOA-GPP	Water	04/21/08
W08GR01094	B1TFK8	TRENT @VOA-GPP	Water	04/17/08
W08GR01095	B1TFL1	TRENT @VOA-GPP	Water	04/22/08
W08GR01096	B1TFL2	TRENT @VOA-GPP	Water	04/23/08

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

SAMPLING LOCATION

C6174, I-006-FB

PROJECT DESIGNATION

216-S-6 Crib Sampling - QC Sampling

SAF NO.

F08-067

ICE CHEST NO.

FIELD LOGBOOK NO.

HNF-N-585-5 pg 27 45'-47.5'

ACTUAL SAMPLE DEPTH

COA

123055E520

PRICE CODE

7N

AIR QUALITY

DATA TURNAROUND

45 Days / 45 Days

SHIPPED TO

Waste Sampling & Characterization

OFFSITE PROPERTY NO.

N/A

BILL OF LADING/AIR BILL NO.

N/A

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 are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

PRESERVATION

HCl or H2SO4 to pH <2/Cool-4C aGs*

TYPE OF CONTAINER

NO. OF CONTAINER(S) 3

VOLUME

40mL

SPECIAL HANDLING AND/OR STORAGE

SAMPLE ANALYSIS

SEE ITEM (1) IN SPECIAL INSTRUCTIONS

20080849

SAMPLE NO.

MATRIX*

SAMPLE DATE

SAMPLE TIME

B1TFK9

WATER

4-17-8

1425

W08040102

ICEL

CHAIN OF POSSESSION

LOT

SIGN/ PRINT NAMES

803901

SPECIAL INSTRUCTIONS

** 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-On) {Acetonitrile, Hexane, Tetrahydrofuran}

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

D Connolly

4-17-8 1500

on site Ref

4-17-8 1500

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

on site Ref

4-29-08 1300

Chris Fulton

4-29-08 1300

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

Chris Fulton

4-29-08 1400

V. S. S. S.

4/29/08 1400

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

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

26 of 30

COLLECTOR NCO Sampler <i>D Connolly</i>	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-007-FB	PROJECT DESIGNATION 216-S-6 Crib Sampling - QC Sampling	SAF NO. F08-067	AIR QUALITY <input type="checkbox"/>		
ICE CHEST NO.	FIELD LOGBOOK NO. <i>4 NF-N-585-J pg 28</i>	ACTUAL SAMPLE DEPTH <i>67.5' - 70'</i>	COA 123055ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Waste Sampling & Characterization	OFFSITE PROPERTY NO. N/A	BILL OF LADING/AIR BILL NO. N/A			

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 are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION HCl or H2SO4 to pH <2/Cool--4C aGs*	TYPE OF CONTAINER	NO. OF CONTAINER(S) 3	VOLUME 40mL	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS SEE ITEM (1) IN SPECIAL INSTRUCTIONS
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SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	STATUS
B1TFLO <i>1093</i>	WATER	<i>4-21-08</i>	<i>1335</i>	<input checked="" type="checkbox"/>

ICED

Lot # *803901*

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM <i>D Connolly</i>	DATE/TIME <i>4-21-08 1400</i>	RECEIVED BY/STORED IN <i>on site Ret</i>	DATE/TIME <i>4-21-08 1400</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-On) {Acetonitrile, Hexane, Tetrahydrofuran}	
RELINQUISHED BY/REMOVED FROM <i>on site Ret</i>	DATE/TIME <i>4-28-08 1700</i>	RECEIVED BY/STORED IN <i>D. Parich</i>	DATE/TIME <i>4-28-08</i>		
RELINQUISHED BY/REMOVED FROM <i>D. Parich</i>	DATE/TIME <i>4-28-08</i>	RECEIVED BY/STORED IN <i>Victor King</i>	DATE/TIME <i>4/28/08 1400</i>		
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

27 of 30

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-005-FB

PROJECT DESIGNATION

216-S-6 Crib Sampling - QC Sampling

SAF NO.

F08-067

AIR QUALITY

ICE CHEST NO.

FIELD LOGBOOK NO.

ACTUAL SAMPLE DEPTH

HNF-N-585.5 pg 27
OFFSITE PROPERTY NO.

29.2' - 31.7'

COA

123055ES20

METHOD OF SHIPMENT

GOVERNMENT VEHICLE

SHIPPED TO

Waste Sampling & Characterization

BILL OF LADING/AIR BILL NO.

N/A

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 are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

PRESERVATION

HCl or H2SO4 to pH <2/Cool-4C aGs*

TYPE OF CONTAINER

NO. OF CONTAINER(S)

3

VOLUME

40ml

SAMPLE ANALYSIS

SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SPECIAL HANDLING AND/OR STORAGE

SAMPLE NO.

MATRIX*

SAMPLE DATE

SAMPLE TIME

B1TFK8

WATER

4-17-8 0915

1094

ICED

*503901
731-H-09-17-8*

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

D Connolly

4-17-8 1100

on site Ref

4-17-8 1100

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

Onsite Ref

4-28-08 1300

Chris Fulton / Chris Fulton

4-28-08 1300

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

Chris Fulton

4-28-08 1400

Vicki S. ...

4/28/08 1400

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

RECEIVED BY

TITLE

DATE/TIME

LABORATORY SECTION

FINAL SAMPLE DISPOSITION

DISPOSAL METHOD

DISPOSED BY

DATE/TIME

28 of 30

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-008-FB

PROJECT DESIGNATION

216-S-6 Crib Sampling - QC Sampling

SAF NO.

F08-067

AIR QUALITY

ICE CHEST NO.

FIELD LOGBOOK NO.

MNF-N-585-5 pg 29 82.6' - 85.1'

ACTUAL SAMPLE DEPTH

COA

123055E520

METHOD OF SHIPMENT

GOVERNMENT VEHICLE

SHIPPED TO

Waste Sampling & Characterization

OFFSITE PROPERTY NO.

N/A

BILL OF LADING/AIR BILL NO.

N/A

MATRIX*

- A=Air
- DL=Drum
- Liquids
- DS=Drum
- Solids
- L=Liquid
- O=Oil
- S=Soil
- SE=Sediment
- T=Tissue
- V=Vegetation
- W=Water
- WT=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)

PRESERVATION

HCl or H2SO4 to pH <2/Cool-4C aGs*

TYPE OF CONTAINER

NO. OF CONTAINER(S)

3

VOLUME

40ml

SPECIAL HANDLING AND/OR STORAGE

SAMPLE ANALYSIS

SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.

MATRIX*

SAMPLE DATE

SAMPLE TIME

B1TFL1

WATER

1095

4-22-8 1250

ICED

lot 803901

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

D Connolly

4-22-8 1330

on site Ret

4-22-8 1350

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

on site ref

4-28-08 1900

D. Parche

4-28-08

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

D. Parche

4-28-08

Victor Sims

4/28/08 1400

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

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

29 of 30

COLLECTOR NCO Sampler <i>Kauer, Rosane, Bass</i>	COMPANY CONTACT TRENT, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 7N	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION C6174, 1090 -FB <i>I-089 4-10-08</i>	PROJECT DESIGNATION 216-S-6 Crib Sampling - QC Sampling	SAF NO. F08-067	AIR QUALITY <input type="checkbox"/>		
ICE CHEST NO.	FIELD LOGBOOK NO. <i>HNF-N-585-5 pg 30</i>	ACTUAL SAMPLE DEPTH <i>97.5' to 100'</i>	COA 123055ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Waste Sampling & Characterization	OFFSITE PROPERTY NO. N/A	BILL OF LADING/AIR BILL NO. N/A			

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 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
 HQ or H2SO4 to pH <2/Cool~4C
 aGs*

TYPE OF CONTAINER

NO. OF CONTAINER(S)
3

VOLUME
40mL

SAMPLE ANALYSIS
 SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TFL2 <i>1094</i>	WATER	4-23-08	08:20 ✓

ICED

CHAIN OF POSSESSION	Lot #	SIGN/ PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM <i>Ed Kauer</i>		RECEIVED BY/STORED IN <i>ON Site 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 - 8250B (Add-On) {Acetonitrile, Hexane, Tetrahydrofuran}
RELINQUISHED BY/REMOVED FROM <i>D. Parcho</i>		RECEIVED BY/STORED IN <i>D. Parcho</i>	
RELINQUISHED BY/REMOVED FROM <i>D. Parcho</i>		RECEIVED BY/STORED IN <i>V. G. Sims</i>	
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	

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

30 of 30