

RECEIVED MARCH 14, 2008

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FLUOR

Memorandum

To: H. Hampt E6-35 Date: M4W41-SLF-08-283
March 13, 2008

From: S. L. Fitzgerald, Manager *[Signature]*
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 WSCF20080449 – SAF NUMBER F07-075

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 WSCF20080449:

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

SLF/grf

Attachments 4

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M4W41-SLF-08-283

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20080449
Data Deliverable Date: 20-mar-2008
Data Deliverable: Cover Sheet

SAF#	Sample ID	WSCF#	Matrix
F07-075	B1PM47	W08GR00487	WATER
	B1PM63	W08GR00488	WATER
	B1PM75	W08GR00489	WATER
	B1PM91	W08GR00490	WATER

M4W41-SLF-08-283

ATTACHMENT 2

NARRATIVE

Consisting of 2 pages
Including cover page

Introduction

Four S&GRP samples were received at the WSCF Laboratory on March 5, 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*, pages 10 through 11, for a complete listing of approved analytical methods.

Organic Comments

VOA – The holding 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 14 through 15 for QC details.

- Matrix Spike and Matrix Spike Duplicate analyzed on sample # B1PM62 (SDG 20080440, SAF F07-075).

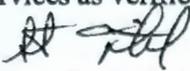
All QC controls are within the established limits.

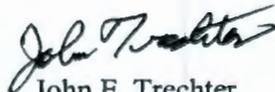
Radiochemistry Comments

Tc-99 Screen by ICP-MS – The holding time requirement for this analysis was met. A Blank and Laboratory Control Sample were analyzed with this delivery group. See page 18 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


John E. Trechter
WSCF Client Services

M4W41-SLF-08-283

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 13 pages
Including cover page

**WSCF
ANALYTICAL RESULTS REPORT**

for

Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical: *S. Fitzgerald 3/13/08*

Client Services: *John Trechter 3/13/08*

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#: WSCF20080449
Report Date: 12-mar-2008
Report WGPP/ver. 5.2
Groundwater Remediation Program

Page 1

Department: Organic

W13q Worklist/Batch/QC Report for Group# WSCF20080449

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
			40200	BLANK		VOA Ground Water Protection
			40200	LCS		VOA Ground Water Protection
			40200	MS	W08GR00483	VOA Ground Water Protection
			40200	MSD	W08GR00483	VOA Ground Water Protection
			40200	SPK-RPD	W08GR00483	VOA Ground Water Protection
			40200	SAMPLE	W08GR00487	VOA Ground Water Protection
			40200	SURR	W08GR00487	VOA Ground Water Protection
			40200	SAMPLE	W08GR00488	VOA Ground Water Protection
			40200	SURR	W08GR00488	VOA Ground Water Protection

w13qlog v4.2 12-mar-2008 14:33:09

Department: Radiochemistry

W13q Worklist/Batch/QC Report for Group# WSCF20080449

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
35410	1	35818	40099	BLANK		TC99 by ICP-200.8 MS
35410	2	35818	40099	LCS		TC99 by ICP-200.8 MS
35410	4	35818	40099	SAMPLE	W08GR00489	TC99 by ICP-200.8 MS
35410	5	35818	40099	SAMPLE	W08GR00490	TC99 by ICP-200.8 MS

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: 12-mar-2008

Report#: WSCF20080449

Report WGPPM/5.2

Page 1

WSCF

METHOD REFERENCES REPORT

Department: Radiochemistry

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-505-412	LA-505-412: DETERMINATION OF TRACE ELEMENTS IN WATERS AND WASTES BY INDUCTIVELY
	EPA-600/R-94-111 200.8 DETERMINATION OF TRACE ELEMENTS IN WATERS AND WASTES BY INDUCTIVELY COUPLED PLAS
	HEIS 200.8 METALS_ICPMS Inductively Coupled Plasma - Mass Spectrometry
	HEIS RADISOTOPES_ICPMS Radioisotopes by ICP/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: 12-mar-2008
Report#: WSCF20080449
Report WGPPM/5.2

Page 2

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-075
Sample # W08GR00487
Client ID: B1PM47

**TRENT
WSCF**

Matrix: WATER

Group #: WSCF20080449
Department: Organic
Sampled: 03/05/08
Received: 03/05/08

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		03/05/08
Trichloroethene	79-01-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		03/05/08
Benzene	71-43-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		03/05/08
Toluene	108-88-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		03/05/08
Chlorobenzene	108-90-7	LA-523-455	U	< 1.00	ug/L			1.00	1.0		03/05/08
Carbon tetrachloride	56-23-5	LA-523-455	J	3.40	ug/L			1.00	1.0		03/05/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

J - Analyte < lowest calibration but >= MDL.(org)

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

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

* - 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: F07-075
Sample # W08GR00488
Client ID: B1PM63

TRENT
WSCF

Matrix: WATER

Group #: WSCF20080449
Department: Organic
Sampled: 03/05/08
Received: 03/05/08

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		03/05/08
Trichloroethene	79-01-6	LA-523-455	U	< 1.00	ug/L			1.00	1.0		03/05/08
Benzene	71-43-2	LA-523-455	U	< 1.00	ug/L			1.00	1.0		03/05/08
Toluene	108-88-3	LA-523-455	U	< 1.00	ug/L			1.00	1.0		03/05/08
Chlorobenzene	108-90-7	LA-523-455	U	< 1.00	ug/L			1.00	1.0		03/05/08
Carbon tetrachloride	56-23-5	LA-523-455	J	3.50	ug/L			1.00	1.0		03/05/08

MDL=Minimum Detection Limit

J - Analyte < lowest calibration but > = MDL.(org)

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

RQ=Result Qualifier

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

TP Err=Total Propagated Error

DF=Dilution Factor

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+ - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Organic**

SDG Number: WSCF20080449
 Matrix: WATER
 Test: VOA Ground Water Protection

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

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00483											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	1,1-Dichloroethene	75-35-4	24.540	98.200	% Recov	63.000	117.000				03/05/08
MS	Benzene	71-43-2	25.330	101.000	% Recov	75.000	129.000				03/05/08
MS	4-Bromofluorobenzene(Surr)	460-00-4	49.560	99.100	% Recov	75.000	125.000				03/05/08
MS	Chlorobenzene	108-90-7	25.620	102.000	% Recov	79.000	119.000				03/05/08
MS	1,2-Dichloroethane-d4(Surr)	17060-07-0	50.540	101.000	% Recov	75.000	125.000				03/05/08
MS	Toluene-d8(Surr)	2037-26-5	50.990	102.000	% Recov	75.000	125.000				03/05/08
MS	Toluene	108-88-3	26.390	106.000	% Recov	76.000	120.000				03/05/08
MS	Trichloroethene	79-01-6	21.310	85.200	% Recov	73.000	123.000				03/05/08
MSD	1,1-Dichloroethene	75-35-4	26.280	105.000	% Recov	63.000	117.000				03/05/08
MSD	Benzene	71-43-2	24.990	100.000	% Recov	75.000	129.000				03/05/08
MSD	4-Bromofluorobenzene(Surr)	460-00-4	49.760	99.500	% Recov	75.000	125.000				03/05/08
MSD	Chlorobenzene	108-90-7	25.560	102.000	% Recov	79.000	119.000				03/05/08
MSD	1,2-Dichloroethane-d4(Surr)	17060-07-0	50.940	102.000	% Recov	75.000	125.000				03/05/08
MSD	Toluene-d8(Surr)	2037-26-5	51.310	103.000	% Recov	75.000	125.000				03/05/08
MSD	Toluene	108-88-3	26.030	104.000	% Recov	76.000	120.000				03/05/08
MSD	Trichloroethene	79-01-6	20.500	82.000	% Recov	73.000	123.000				03/05/08
SPK-RPD	1,1-Dichloroethene	75-35-4	105.000		RPD			6.693	20.000		03/05/08
SPK-RPD	Benzene	71-43-2	100.000		RPD			0.995	20.000		03/05/08
SPK-RPD	Chlorobenzene	108-90-7	102.000		RPD			0.000	20.000		03/05/08
SPK-RPD	1,2-Dichloroethane-d4(Surr)	17060-07-0	102.000		RPD			0.985	20.000		03/05/08
SPK-RPD	Toluene-d8(Surr)	2037-26-5	103.000		RPD			0.976	20.000		03/05/08
SPK-RPD	Toluene	108-88-3	104.000		RPD			1.905	20.000		03/05/08
SPK-RPD	Trichloroethene	79-01-6	82.000		RPD			3.828	20.000		03/05/08

Lab ID: W08GR00487
BATCH QC ASSOCIATED WITH SAMPLE

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Organic**

SDG Number: WSCF20080449
 Matrix: WATER
 Test: VOA Ground Water Protection

Sample Date: 03/05/08
 Receive Date: 03/05/08

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	49.890	99.800	% Recov	75.000	125.000				03/05/08
SURR	1,2-Dichloroethane-d4(Surr)	17060-07-0	51.430	103.000	% Recov	75.000	125.000				03/05/08
SURR	Toluene-d8(Surr)	2037-26-5	51.860	104.000	% Recov	75.000	125.000				03/05/08

Lab ID: W08GR00488
BATCH QC ASSOCIATED WITH SAMPLE

SURR	4-Bromofluorobenzene(Surr)	460-00-4	49.390	98.800	% Recov	75.000	125.000				03/05/08
SURR	1,2-Dichloroethane-d4(Surr)	17060-07-0	51.580	103.000	% Recov	75.000	125.000				03/05/08
SURR	Toluene-d8(Surr)	2037-26-5	52.080	104.000	% Recov	75.000	125.000				03/05/08

BATCH QC

BLANK	1,1-Dichloroethene	75-35-4	< 1.0	n/a	ug/L					U	03/05/08
BLANK	Benzene	71-43-2	< 1.0	n/a	ug/L					U	03/05/08
BLANK	4-Bromofluorobenzene(Surr)	460-00-4	48.580	97.200	% Recov	75.000	125.000				03/05/08
BLANK	Carbon tetrachloride	56-23-5	< 1.0	n/a	ug/L					U	03/05/08
BLANK	Chlorobenzene	108-90-7	< 1.0	n/a	ug/L					U	03/05/08
BLANK	1,2-Dichloroethane-d4(Surr)	17060-07-0	49.020	98.000	% Recov	75.000	125.000				03/05/08
BLANK	Toluene-d8(Surr)	2037-26-5	49.780	99.600	% Recov	75.000	125.000				03/05/08
BLANK	Toluene	108-88-3	< 1.0	n/a	ug/L					U	03/05/08
BLANK	Trichloroethene	79-01-6	< 1.0	n/a	ug/L					U	03/05/08
LCS	1,1-Dichloroethene	75-35-4	22.120	88.500	% Recov	75.000	125.000				03/05/08
LCS	Benzene	71-43-2	26.060	104.000	% Recov	75.000	125.000				03/05/08
LCS	4-Bromofluorobenzene(Surr)	460-00-4	48.050	96.100	% Recov	75.000	125.000				03/05/08
LCS	Chlorobenzene	108-90-7	25.950	104.000	% Recov	75.000	125.000				03/05/08
LCS	1,2-Dichloroethane-d4(Surr)	17060-07-0	51.240	102.000	% Recov	75.000	125.000				03/05/08
LCS	Toluene-d8(Surr)	2037-26-5	51.330	103.000	% Recov	75.000	125.000				03/05/08
LCS	Toluene	108-88-3	26.190	105.000	% Recov	75.000	125.000				03/05/08
LCS	Trichloroethene	79-01-6	20.920	83.700	% Recov	75.000	125.000				03/05/08

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-075
Sample # W08GR00489
Client ID: B1PM75

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20080449
Department: Radiochemistry
Sampled: 03/05/08
Received: 03/05/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
TC99 by ICP-200.8 MS											
Technetium by ICP-MS	14133-76-7	LA-505-412	U	1.30e-03	ug/L			1.00	1.0e-03		03/05/08

MDL=Minimum Detection Limit

J - Analyte < lowest calibration but > = MDL.(org)

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

RQ=Result Qualifier

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

TP Err=Total Propagated Error

DF=Dilution Factor

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Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-075
Sample # W08GR00490
Client ID: B1PM91

TRENT
WSCF

Matrix: WATER

Group #: WSCF20080449
Department: Radiochemistry
Sampled: 03/05/08
Received: 03/05/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
TC99 by ICP-200.8 MS											
Technetium by ICP-MS	14133-76-7	LA-505-412	U	< 1.00e-03	ug/L			1.00	1.0e-03		03/05/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

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DF=Dilution Factor

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J - Analyte < lowest calibration but > = MDL.(org)

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

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

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080449
 Matrix: WATER
 Test: TC99 by ICP-200.8 MS

Sample Date:
 Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BATCH QC											
BLANK	Technetium by ICP-MS	14133-76-7	< 1e-3	n/a	ug/L					U	03/05/08
LCS	Technetium by ICP-MS	14133-76-7	0.14	97.902	% Recov	49.000	125.000				03/05/08

M4W41-SLF-08-283

ATTACHMENT 4

SAMPLE RECEIPT INFORMATION

Consisting of 6 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
03/06/08
tel

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Groundwater Remediation Program
Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 122590/ES10
Group#: 20080449
Project#: F07-075
Proj Mgr: STEVE TRENT E6-35
Phone: 373-5869

The following samples were received from you on 03/05/08. 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
W08GR00487	B1PM47	TRENT @VOA-GPP	Water	03/05/08
W08GR00488	B1PM63	TRENT @VOA-GPP	Water	03/05/08
W08GR00489	B1PM75	TRENT @TC99-MS	Water	03/05/08
W08GR00490	B1PM91	TRENT @TC99-MS	Water	03/05/08

Test Acronym Description

Test Acronym	Description
@TC99-MS	TC99 screen by ICP-200.8 MS
@VOA-GPP	VOA Ground Water Protection

COLLECTOR

NCO Sampler

M. White

SAMPLING LOCATION

C4972, I-4

ICE CHEST NO.

COMPANY CONTACT

Trent, SJ

PROJECT DESIGNATION

200-UP-1 Remedial Investigation Sampling and Analysis - Groundwater

FIELD LOGBOOK NO.

ACTUAL SAMPLE DEPTH

368.8'

OFFSITE PROPERTY NO.

N/A

PROJECT COORDINATOR

WIDRIG, DL

SAF NO.

F07-075

COA

122590ES10

BILL OF LADING/AIR BILL NO.

N/A

PRICE CODE

1A

AIR QUALITY

DATA TURNAROUND

24 Hours / 15 Days

METHOD OF SHIPMENT

GOVERNMENT VEHICLE

SHIPPED TO

Waste Sampling & Characterization

20080445

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 to pH <2/Cool-4C

TYPE OF CONTAINER

gGs*

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

B1PM47

W08GR00487

WATER

3-5-08 0850



✓

DATA 733101

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM

1305
DATE/TIME

RELINQUISHED BY/REMOVED FROM

DATE/TIME

SIGN/ PRINT NAMES

RECEIVED BY/STORED IN

T A Frazier

RECEIVED BY/STORED IN

1305
DATE/TIME

3-5-08
DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

SPECIAL INSTRUCTIONS

(1)VOLATILE ORGANICS BY FIELD GC (Carbon tetrachloride)

ICED

LABORATORY SECTION

RECEIVED BY

FINAL SAMPLE DISPOSITION

DISPOSAL METHOD

TITLE

DATE/TIME

DISPOSED BY

DATE/TIME

21 OF 24

COLLECTOR
NCO Sampler *Mitzi White*

SAMPLING LOCATION
C4976, I-3

ICE CHEST NO.

COMPANY CONTACT
Trent, SJ

TELEPHONE NO.
373-5869

PROJECT DESIGNATION
200-UP-1 Remedial Investigation Sampling and Analysis - Groundwater

FIELD LOGBOOK NO.

PROJECT COORDINATOR
WIDRIG, DL

PRICE CODE 1A

SAF NO.
F07-075

AIR QUALITY

COA
122590E510

METHOD OF SHIPMENT
GOVERNMENT VEHICLE

DATA TURNAROUND
24 Hours / 15 Days

SHIPPED TO
Waste Sampling & Characterization

OFFSITE PROPERTY NO.
N/A

ACTUAL SAMPLE DEPTH
302.9'

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	HCl to pH <2 / Cool -4C
TYPE OF CONTAINER	gGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1PM63	488 WATER	3-5-08	1100 ✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM <i>MA White MGT</i>	DATE/TIME 3-5-08 1305
RELINQUISHED BY/REMOVED FROM	DATE/TIME

SIGN/ PRINT NAMES

LOT #

RECEIVED BY/STORED IN T A Frazier	DATE/TIME 3-5-08 1305
RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
(1) VOLATILE ORGANICS BY FIELD GC (Carbon tetrachloride)

ICED

LABORATORY SECTION RECEIVED BY

FINAL SAMPLE DISPOSITION DISPOSAL METHOD

TITLE DATE/TIME

DISPOSED BY DATE/TIME

22 of 24

COLLECTOR
NCO Sampler *Mitz White*
SAMPLING LOCATION
C4972, I-4
ICE CHEST NO.

COMPANY CONTACT
Trent, SJ
PROJECT DESIGNATION
200-UP-1 Remedial Investigation Sampling and Analysis - Groundwater
FIELD LOGBOOK NO.

TELEPHONE NO.
373-5869
ACTUAL SAMPLE DEPTH
368.8'

PROJECT COORDINATOR
WIDRIG, DL
PRICE CODE 1A
SAF NO. F07-075
AIR QUALITY

DATA TURNAROUND
24 Hours / 15 Days

SHIPPED TO
Waste Sampling & Characterization

OFFSITE PROPERTY NO.
N/A

COA
122590ES10
METHOD OF SHIPMENT
GOVERNMENT VEHICLE

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
HNO3 to pH <2(ULTRIX)
TYPE OF CONTAINER
Nalgene
NO. OF CONTAINER(S)
1
VOLUME
500mL
SAMPLE ANALYSIS
Tc-99 by ICMS (Technetium-99)

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1PM75 <i>489</i>	WATER	<i>3-5-08</i>	<i>0850</i> ✓

CHAIN OF POSSESSION	RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES	DATE/TIME
	<i>na white M.P. White</i>	<i>3-5-08</i>	<i>T.A. Prazier</i>	<i>3-5-08</i>

SPECIAL INSTRUCTIONS

ICED

TITLE _____ DATE/TIME _____

DISPOSED BY _____ DATE/TIME _____

Lot # 028006

23 of 24

LABORATORY SECTION RECEIVED BY _____

FINAL SAMPLE DISPOSITION DISPOSAL METHOD _____

COLLECTOR
 NCO Sampler *Mitchell*

COMPANY CONTACT
 Trent, SJ

TELEPHONE NO.
 373-5869

PROJECT COORDINATOR
 WIDRIG, DL

PRICE CODE 1A

DATA TURNAROUND
 24 Hours / 15 Days

SAMPLING LOCATION
 C4976, I-3

PROJECT DESIGNATION
 200-UP-1 Remedial Investigation Sampling and Analysis - Groundwater

SAF NO.
 F07-075

AIR QUALITY

ICE CHEST NO.

FIELD LOGBOOK NO.

ACTUAL SAMPLE DEPTH
 302.9

COA
 122590ES10

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
 HNO3 to pH <2(ULTREX)

TYPE OF CONTAINER
 Nalgene

NO. OF CONTAINER(S)
 1

VOLUME
 500mL

SAMPLE ANALYSIS
 Tc-99 by ICAMS (Technetium-99)

SPECIAL HANDLING AND/OR STORAGE

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1PM91	490 WATER	3-5-08	1100 ✓

LOT # 027361

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
<i>M. Mitchell</i>	3-5-08 1305	<i>T. A. Frazier</i>	3-5-08 1305		
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		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		

ICED

24 OF 24

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