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FLUOR

Memorandum

M4W41-SLF-08-609

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 WSCF20080852 – SAF NUMBER F08-044

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 WSCF20080852:

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

SLF/grf

Attachments 4

M4W41-SLF-08-609

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20080852
Data Deliverable Date: 12-jun-2008
Data Deliverable: Cover Sheet

| SAF# | Sample ID | WSCF# | Matrix |
|---------|-----------|------------|--------|
| F08-044 | B1VB31 | W08GR01101 | WATER |

M4W41-SLF-08-609

ATTACHMENT 2

NARRATIVE

Consisting of 2 pages
Including cover page

Introduction

One S&GRP sample was received at the WSCF Laboratory on April 28, 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 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.

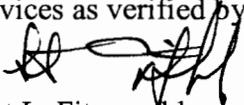
Organic Comments

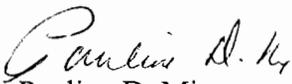
VOA – The hold time requirement for this analysis was met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample, were analyzed with this delivery group per the GRP Letter of Instruction. See pages 12 through 14 for QC details. Analytical Note(s):

- Matrix Spike and Matrix Spike Duplicate were analyzed on sample# B1TFL2 (SDG# 20080849, SAF# F08-067).

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-08-609

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 9 pages
Including cover page

WSCF
ANALYTICAL RESULTS REPORT

for

Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical:  S.F. Fitzgerald 6/1/08
Client Services:  C.D. Mix 6/6/2008

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#: WSCF20080852
Report Date: 4-jun-2008
Report WGPP/ver. 5.2
Groundwater Remediation Program

W13q Worklist/Batch/QC Report for Group# WSCF20080852

| WL# | S# | Batch | QC# | Tray Type | Sample# | Test |
|-----|----|-------|-------|-----------|------------|-----------------------------|
| | | | 41272 | BLANK | | VOA Ground Water Protection |
| | | | 41272 | LCS | | VOA Ground Water Protection |
| | | | 41272 | MS | W08GR01096 | VOA Ground Water Protection |
| | | | 41272 | MSD | W08GR01096 | VOA Ground Water Protection |
| | | | 41272 | SPK-RPD | W08GR01096 | VOA Ground Water Protection |
| | | | 41272 | SAMPLE | W08GR01101 | VOA Ground Water Protection |
| | | | 41272 | SURR | W08GR01101 | 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.r1.gov/phmc/as-dol>.

Report Date: 4-jun-2008
Report #: WSCF20080852
Report WGPPM/5.2

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-044
Sample #: W08GR01101
Client ID: B1VB31

Group #: WSCF20080852
Department: Organic
Sampled: 04/21/08
Received: 04/28/08

GPP WSCF **TRENT**
Matrix: WATER **Unit**

| 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

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-044
Sample # W08GR01101
Client ID: B1VB31

Group #: WSCF20080852
Department: Organic
Sampled: 04/21/08
Received: 04/28/08

GPP TREN
WSCF TREN
Matrix: WATER

| 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

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: WSCF20080852

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 |
|--|-----------------------------|------------|----------|----------|---------|-------------|-------------|--------|-----------|----|---------------|
| 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 |
| 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 |

Lab ID: W08GR01101
BATCH QC ASSOCIATED WITH SAMPLE

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080852
 Matrix: WATER
 Test: VOA Ground Water Protection

Sample Date: 04/21/08
 Receive Date: 04/28/08

| QC Type | Analyte | CAS # | QC Found | QC Yield | Units | Lower Limit | Upper Limit | RPD(%) | RPD Limit | RQ | Analysis Date |
|-----------------|-----------------------------|------------|----------|----------|---------|-------------|-------------|--------|-----------|----|---------------|
| SURR | 4-Bromofluorobenzene(Surr) | 460-00-4 | 52.050 | 104.000 | % Recov | 75.000 | 125.000 | | | | 05/01/08 |
| SURR | 1,2-Dichloroethane-d4(Surr) | 17060-07-0 | 52.320 | 105.000 | % Recov | 75.000 | 125.000 | | | | 05/01/08 |
| SURR | Toluene-d8(Surr) | 2037-26-5 | 51.380 | 103.000 | % Recov | 75.000 | 125.000 | | | | 05/01/08 |
| BATCH QC | | | | | | | | | | | |
| BLANK | 1,1-Dichloroethane | 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 |
| 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 |

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Organic**

SDG Number: **WSCF20080852**

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 | 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 | | | U | 05/01/08 |
| 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 | | | U | 05/01/08 |
| LCS | Benzene | 71-43-2 | 22.840 | 91.400 | % Recov | 75.000 | 125.000 | | | U | 05/01/08 |
| LCS | 4-Bromofluorobenzene(Surr) | 460-00-4 | 51.580 | 103.000 | % Recov | 75.000 | 125.000 | | | U | 05/01/08 |
| LCS | Chlorobenzene | 108-90-7 | 24.450 | 97.800 | % Recov | 75.000 | 125.000 | | | U | 05/01/08 |
| LCS | 1,2-Dichloroethane-d4(Surr) | 17060-07-0 | 51.740 | 103.000 | % Recov | 75.000 | 125.000 | | | U | 05/01/08 |
| LCS | Toluene-d8(Surr) | 2037-26-5 | 50.940 | 102.000 | % Recov | 75.000 | 125.000 | | | U | 05/01/08 |
| LCS | Toluene | 108-88-3 | 23.660 | 94.600 | % Recov | 75.000 | 125.000 | | | U | 05/01/08 |
| LCS | Trichloroethene | 79-01-6 | 19.990 | 80.000 | % Recov | 75.000 | 125.000 | | | U | 05/01/08 |

M4W41-SLF-08-609

ATTACHMENT 4

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
VIB*

ACKNOWLEDGMENT OF SAMPLES RECEIVED

6/12/08

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 123055/ES20
Group#: 20080852
Project#: F08-044
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 |
|------------|-----------|-----------------|-------------|-------------|
| W08GR01101 | B1VB31 | GPP @VOA-GPP | TRENT Water | 04/21/08 |

Test Acronym Description

| Test Acronym | Description |
|--------------|-----------------------------|
| @VOA-GPP | VOA Ground Water Protection |

COLLECTOR **P. PISTE** **NEBRICK** DATA TURNAROUND 45 Days / 45 Days

COMPANY CONTACT **TRENT, SJ** PROJECT COORDINATOR **WDRIG, DL** PRICE CODE **7N**

PROJECT DESIGNATION **216-A-30 Crb - QC Sampling** SAF NO. **F08-044** AIR QUALITY

FIELD LOGBOOK NO. **HNF-N-535-2** ACTUAL SAMPLE DEPTH **285-287.6** METHOD OF SHIPMENT **GOVERNMENT VEHICLE**

OFFSITE PROPERTY NO. **N/A** BILL OF LADING/AIR BILL NO. **N/A**

MATRIX* **HCl or H2SO4 to pH <2/Cool~4C 365***

NO. OF CONTAINER(S) **4**

VOLUME **40mL**

SPECIAL HANDLING AND/OR STORAGE **20080852**

SAMPLE NO. **B1VB31 W0800 1101 WATER** MATRIX* **WATER**

Waste Sampling & Characterization

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

TYPE OF CONTAINER

SPECIAL ANALYSIS

RECEIVED BY/STORED IN **MO-509 R2012** DATE/TIME **4/21/08**

RECEIVED BY/STORED IN **D. Parck** DATE/TIME **4-28-08**

RECEIVED BY/STORED IN **Victor Smith** DATE/TIME **4/28/08 1400**

RECEIVED BY/STORED IN **RECEIVED BY/STORED IN** DATE/TIME

ICED

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}